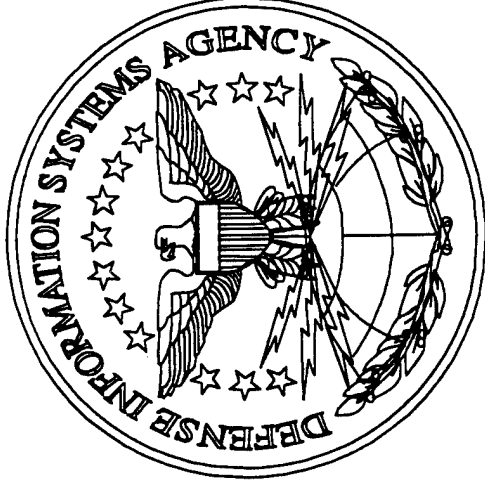


# DEFENSE INFORMATION SYSTEMS AGENCY FY 1997 PRESIDENT'S BUDGET ESTIMATES



## RESEARCH, DEVELOPMENT, TEST AND EVALUATION (RDT&E) APPROPRIATION

DISTRIBUTION STATEMENT A  
Approved for public release;  
Distribution Unlimited

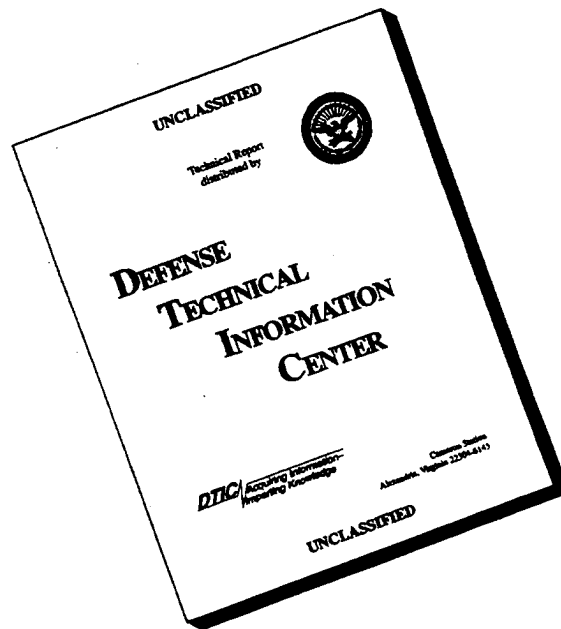
### R-1, R-2, AND R-3 EXHIBITS

19960605 093

MARCH 1996

DTIC QUALITY INSPECTED 1

# DISCLAIMER NOTICE



**THIS DOCUMENT IS BEST  
QUALITY AVAILABLE. THE  
COPY FURNISHED TO DTIC  
CONTAINED A SIGNIFICANT  
NUMBER OF PAGES WHICH DO  
NOT REPRODUCE LEGIBLY.**

DEFENSE INFORMATION SYSTEMS AGENCY (DISA)  
PROGRAM ELEMENT COMPARISON SUMMARY  
INTRODUCTION AND EXPLANATION OF CHANGES

1. General. This document has been prepared to provide summary information on the DISA Research, Development, Test and Evaluation Program to congressional committees during the FY 1997 hearings. The R-2 and R-3 exhibits provide narrative information on all RDT&E Program Elements and projects.

2. Comparison of FY 1995 and 1996 Data. A direct comparison of FY 1995 and FY 1996 data in the R-1 exhibit dated February 1995 will reveal only changes reflecting below threshold reprogrammings and Congressional action on the appropriation request.

3. Relationship of FY 1997 Budget Structure to the FY 1996 Budget Approved by Congress. The FY 1997 budget request reflects two new program elements: 0303129K (Defense Message System) and 0303149K (C4I for the Warrior). Funding for the Defense Message System is a realignment of work which was previously included in 0303126K (Long Haul Communications). Funding included in C4I for the Warrior represents a new effort.

4. Classification. All exhibits in this document are unclassified.

UNCLASSIFIED

DEFENSE INFORMATION SYSTEMS AGENCY  
FY 1997 PRESIDENT'S BUDGET ESTIMATE

RESEARCH, DEVELOPMENT, TEST, AND EVALUATION

TABLE OF CONTENTS

|                                                                              |     |
|------------------------------------------------------------------------------|-----|
| RDT&E Program Summary, R-1.....                                              | 1   |
| C2 Research Center, PE 0305108K.....                                         | 2   |
| C3 Interoperability, PE 0208045K.....                                        | 5   |
| NMCS-Wide Support, PE 0302016K.....                                          | 23  |
| Joint/Defense Info Systems Engineering & Integration, PE 0302019K.....       | 40  |
| Long-Haul Communications, PE 0303126K.....                                   | 65  |
| Support of the National Communications System (NCS), PE 0303127K.....        | 95  |
| Defense Message System (DMS), PE 0303129K.....                               | 109 |
| Minimum Essential Emergency Communications Network (MEECN), PE 0303131K..... | 112 |
| C4I For the Warrior, PE 0303149K.....                                        | 119 |
| Joint Spectrum Center, PE 0303153K.....                                      | 122 |

UNCLASSIFIED

## UNCLASSIFIED

DEFENSE INFORMATION SYSTEMS AGENCY  
FY 1997 PRESIDENT'S BUDGET ESTIMATES

## R-1 EXHIBIT

| <u>Program Element</u>                          | <u>FY 1995</u> | <u>FY 1996</u> | <u>FY 1997</u> |
|-------------------------------------------------|----------------|----------------|----------------|
| 0305108K C2 Research                            | 1,640          | 1,819          | 1,856          |
| Total Applied Research (BA 2)                   | 1,640          | 1,819          | 1,856          |
| 0604889K Counterdrug Engineering                | 500            | 0              | 0              |
| Total Engineering & Manufac. Dev. (BA 5)        | 500            | 0              | 0              |
| 0208045K C3 Interoperability                    | 32,451         | 23,192         | 24,268         |
| 0302016K NMCS-Wide Support                      | 3,536          | 1,995          | 2,047          |
| 0302019K Joint/Def. Info. Sys. Engin. & Integ.  | 9,774          | 3,745          | 4,594          |
| 0303126K Long Haul Communications               | 27,166         | 20,060         | 23,361         |
| 0303127K Support of the Nat. Comm. Sys. (NCS)   | 4,229          | 3,733          | 3,910          |
| 0303129K Defense Message System (DMS)           | 0              | 0              | 2,532          |
| 0303131K Min. Essen. Emerg. Comm. Netw. (MEECN) | 3,237          | 2,620          | 2,311          |
| 0303149K C4I for the Warrior                    | 0              | 0              | 2,907          |
| 0303153K Joint Spectrum Center                  | 0              | 4,712          | 0              |
| Total Operational Systems Develop. (BA 7)       | 80,393         | 60,057         | 65,930         |
| TOTAL DISA RDT&E                                | 82,533         | 61,876         | 67,786         |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                                                    |       |       |       |       |       | DATE: March 1996 |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------|-------|-------|-------|-------|-------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | R-1 ITEM NOMENCLATURE<br>C2 Research/P.E. 0305108K |       |       |       |       |       |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FY95  | FY96                                               | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost |
| Total 0305108K Cost                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.640 | 1.819                                              | 1.856 | 1.944 | 2.024 | 2.087 | 2.153 | Contg            | Contg      |
| Project A: Command and Control Research, A10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.640 | 1.819                                              | 1.856 | 1.944 | 2.024 | 2.087 | 2.153 | Contg            | Contg      |
| <p><b>A. Mission Description and Budget Item Justification:</b><br/>           This program element represents DISA's portion of a joint DISA/multi-service effort that supports research into emerging technologies, methodologies and theories of military command and control (C2), the application of research results to resolve the problems of C2 associated with joint operations and to foster optimal use of MILDEP laboratory resources. Accordingly, this program element is located in Budget Activity 02. The C2 research program was initiated to develop C2 as a scientific discipline, foster joint service techbase cooperation and demonstrations, and develop a C2 curriculum for DOD.</p> <p>The project supports command and control basic research and Applied Research. The project consists of research and studies for high level issues in command and control, and the development of curricula for National Defense University, Naval Post Graduate School, and the Service war colleges. It addresses joint techbase issues including joint distributed ADP, Joint War Gaming and technology sharing.</p> <p><b>FY1995 Accomplishments</b></p> <ul style="list-style-type: none"> <li>o Continued coordinating and managing the Joint Service C3 Science and Technology Programs, developing annual Joint Service Program Plan for C3 Research and supporting the development and execution of the Deputy Director of Research and Engineering (DDR&amp;E) Enhanced Advanced Technology Demonstrations (EATDs) (\$250K) (AUG 95)</li> <li>o Continued development and demonstration of Distributed Computing Environment (DCE) capabilities in data bases, Multi-Level Security, data fusion, and address these issues in the Global Grid DCE. (\$595K) (SEP 95)</li> <li>o Continued C3, Decision Aids and Data Fusion Symposia and the information exchange through the TPC3 subpanels. Continue to explore the possibility of formally expanding into the international arena by forming a C2 Research Group in the Technical Cooperative Program (TCP) or an international Symposium. (\$300K) (JUNE 95)</li> <li>o Continued basic and applied research in C2 architecture's theory and analysis tools. Continue basic and applied research in Conditional Event Probability Algebraic Logic and its application to the C2 process. (\$245K) (SEP 95)</li> <li>o Continued curricula for National Defense University and other DOD schools and analysis and studies of high level C3 issues (\$250K) (SEP 95)</li> </ul> <p><b>\$1.640M Total</b></p> |       |                                                    |       |       |       |       |       |                  |            |

Page 1 of 3

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                           |       |       |       |       |       |       |                  | DATE: March 1996 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | R-1 ITEM NOMENCLATURE     |       |       |       |       |       |       |                  |                  |
| RDT&E, Defense Wide/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | C2 Research/P.E. 0305108K |       |       |       |       |       |       |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | FY95                      | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| Total 0305108K Cost                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                           | 1.640 | 1.819 | 1.856 | 1.944 | 2.024 | 2.087 | 2.153            | Contg            |
| Project A: Command and Control Research, A10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                           | 1.640 | 1.819 | 1.856 | 1.944 | 2.024 | 2.087 | 2.153            | Contg            |
| <p><b>FY1996 Plans:</b></p> <ul style="list-style-type: none"> <li>o Continue coordinating and managing the Joint Service C3 Science and Technology Programs, developing annual Joint Service Plan for C3 Research . Support the development and execution of the Deputy Director of Research and Engineering (DDR&amp;E) Advanced Concepts Technology Demonstrations (ACTDs) using the Joint Warfare Information Demonstrations (JWID). (\$202K) (AUG 96)</li> <li>o Continue development and demonstration within the Global Grid testbed environment of Multi-level Security and data fusion. (\$275K) (SEP 96)</li> <li>o Continue C3, Decision Aids and Data Fusion Symposia and the information exchange through TPC3 subpanels. Formalize the expansion into the international arena. (\$453K) (SEP 96)</li> <li>o Continue basic and applied research in C2 architecture's theory and analysis tools. Continue basic research in Conditional Event Probability Algebraic Logic (CEPAL) and its application to the C3 process (\$567K) (SEP 96)</li> <li>o Continue C2 curricula for National Defense University and other DOD schools and analysis and studies of high level C3 issues. (\$322K) (SEP 96)</li> </ul> <p>\$1.819M Total</p> <p><b>FY1997 Plans:</b></p> <ul style="list-style-type: none"> <li>o Continue coordinating and managing the Joint Service C3 Science and Technology Programs, developing annual Joint Service Plan for C3 Research. Support the development and execution of the Deputy Director of Research and Engineering (DDR&amp;E) Advanced Concepts Technology Demonstrations (ACTDs) using the Joint Warfare Information Demonstrations (JWID). (\$100K) (AUG 97)</li> <li>o Continue demonstration within the Global Grid testbed environment of DCE capabilities in Multi-Media, distributed data bases, Multi-level Security and data fusion. Incorporate research into JWID arena for demonstration. (\$141K) (SEP 97)</li> <li>o Continue C3, Decision Aids and Data Fusion Symposia and the information exchange through the TPC3 subpanels. Formalize the expansion into the international arena. Hold first international C3 Symposia in Europe. (\$355K) (JUNE 97)</li> <li>o Continue basic and applied research in C2 architecture's theory and analysis tools. Continue basic research in Conditional Event Probability Algebraic Logic and its application to the C3 process. (\$510K) (SEP 97)</li> <li>o Continue C2 curricula for National Defense University and other DOD schools analysis and studies of high level C3 issues (\$750K) (SEP 97)</li> </ul> <p>\$1.856M Total</p> |  |                           |       |       |       |       |       |       |                  |                  |

Page 2 of 3

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |       |       |                                                    |       |       |       |       |                  | DATE: March 1996 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|-------|----------------------------------------------------|-------|-------|-------|-------|------------------|------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |       |       | R-1 ITEM NOMENCLATURE<br>C2 Research/P.E. 0305108K |       |       |       |       |                  |                  |  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | FY95  | FY96  | FY97                                               | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |  |
| Project A: Command and Control Research, A10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 1.640 | 1.819 | 1.856                                              | 1.944 | 2.024 | 2.087 | 2.153 | Contg            | Contg            |  |
| <p><u>B. Program Change Summary</u></p> <p>Previous President's Budget (FY 1996)</p> <p>Appropriated Value</p> <p>Adjustments to Appropriated Value</p> <p>Adjustments to Budget Year Since FY 1996 President's Budget</p> <p>Current Budget Submit/President's Budget</p> <p>Change Summary Explanation:</p> <p>Funding:</p> <p>FY95 reduction due to Congressional rescission.</p> <p>FY96 reduction due to undistributed Congressional adjustment.</p> <p>FY96 reduction due to revised inflation guidance.</p> <p>Schedule: N/A</p> <p>Technical: N/A</p> <p><u>C. Other Program Funding Summary N/A</u></p> <p><u>D. Schedule Profile</u></p> <p>(U) FY 1995</p> <p>Contract/study delivered 3rd quarter FY95</p> <p>(U) FY 1996</p> <p>Contract/study delivered 2nd quarter FY96</p> <p>(U) FY 1997</p> <p>Contract/study delivered 3rd quarter FY97</p> |  |       |       |                                                    |       |       |       |       |                  |                  |  |

Page 3 of 3

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |        |        |        |                                                       |        |        |                  |            | DATE: March 1996 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|-------------------------------------------------------|--------|--------|------------------|------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |        |        |        | R-1 ITEM NOMENCLATURE<br>C3 Interoperability 0208045K |        |        |                  |            |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FY95   | FY96   | FY97   | FY98   | FY99                                                  | FY00   | FY01   | Cost of Complete | Total Cost |                  |
| PE: 0208045K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 32.451 | 23.192 | 24.268 | 25.313 | 26.297                                                | 27.885 | 29.547 | Contg            | Contg      |                  |
| T20 Center for Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.943  | 2.185  | 1.582  | 1.639  | 1.687                                                 | 1.851  | 2.001  | Contg            | Contg      |                  |
| T80 Technology Assessment and Insertion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0*     | .571   | .563   | .584   | .601                                                  | .658   | .712   | Contg            | Contg      |                  |
| T30 Test and Evaluation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20.679 | 13.080 | 14.449 | 15.081 | 15.665                                                | 16.516 | 17.466 | Contg            | Contg      |                  |
| T40 Major Range and Test Facility Base (MRTFB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8.829  | 7.356  | 7.674  | 8.009  | 8.344                                                 | 8.860  | 9.368  | Contg            | Contg      |                  |
| A. Mission Description & Budget Item Justification:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |        |        |        |                                                       |        |        |                  |            |                  |
| To ensure interoperability and integration of Command, Control, Communications and Intelligence (C3I) systems through development and maintenance of a joint global architecture, interface and system standards, interface definitions, operational procedures and a test and certification program for C3 systems; and to function as an Operational Test Agency (OTA) to test/certify the Defense Information Systems Network (DISN), Defense Message System (DMS), and other strategic systems. This program element is under Budget Activity 07 because it involves efforts supporting operational systems development. |        |        |        |        |                                                       |        |        |                  |            |                  |
| *This project is not a new start but has evolved from an existing effort in Project T30, Test and Evaluation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |        |        |        |                                                       |        |        |                  |            |                  |
| Page 1 of 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |        |        |        |                                                       |        |        |                  |            |                  |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |                                                                                |       |       |       |       |       | DATE: March 1996 |                  |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--------------------------------------------------------------------------------|-------|-------|-------|-------|-------|------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  | R-1 ITEM NOMENCLATURE<br>C3 Interoperability 0208045K/Center for Standards/T20 |       |       |       |       |       |                  |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  | FY95                                                                           | FY96  | FY97  | FY98  | FY99  | FY00  | FY01             | Cost of Complete | Total Cost |
| T20 Center for Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  | 2.943                                                                          | 2.185 | 1.582 | 1.639 | 1.687 | 1.851 | 2.001            | Contg            | Contg      |
| A. Mission Description & Budget Item Justification: The Center serves as DOD Executive Agent for centralized management of Information Technology standards. The primary goal is to guide development of standards within DOD and encourage industry adoption of standards supporting DOD requirements. When commercially available standards exist, they will be adopted. The Center will manage development of DOD unique requirement efforts. The Center will also select candidate technologies for advanced technology demonstrations, and develop the roadmap and business case analyses for transitioning technologies into leading edge services. |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |
| (U) FY 1995 Plans:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |
| o Maintain and expand IT Standards Framework, establish a repository of certified DOD IT standards profiles, provide direct standards profile selection support for DOD systems; (Ongoing; \$890K).                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |
| o Review Joint Pub 6-05, Manual for Employing Joint Tactical Communications to incorporate Joint Task Force (JTF) requirements; (Ongoing, \$275K).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |
| o Approve MIL-STD-198-700A, Interoperability and Performance Standards for the Defense Information System; (Nov 94, \$67K).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |
| o Complete MIL-STD-188-221, Tactical Radio Data Link Waveform Standard; (Sep 95; \$186K).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |
| o Publish MIL-STD-188-136, MIL-STD-700B, Interoperability and Performance Standards for the Defense Information System; (Jun 95; \$135K).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |
| o Provide technical support to Principal US Representative to NATO Subgroups, SG/9, SG/11 and SG/6; (Ongoing; \$327K).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |
| o Validate Ultra High Frequency (UHF) satellite standards; (Jun 95; \$353K).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |
| o Revise MIL-STD-187-700, Interoperability and Performance Standards for the Defense Information Systems, to stay abreast with technological advancements; (Sep 95; \$120K).                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |
| o Complete draft MIL-STD-188-331A on multipoint VTC systems and submit for testing; (Dec 94; \$110K).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |
| o Revise MIL-STD-188-194, Integrated Services Digital Network (ISDN) Profile; (Ongoing; \$128K).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |
| o Complete development of EHF Medium Data Rate (MDR) Standard, MIL-STD-188-136; (Mar 95; \$352K).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |
| \$2.943M Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |                                                                                |       |       |       |       |       |                  |                  |            |

Page 2 of 18

Page 2 of 18

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                |                    |                                                                                |       |       |       |       |       |       |                  | DATE: March 1996 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                            |                    | R-1 ITEM NOMENCLATURE<br>C3 Interoperability 0208045K/Center for Standards/T20 |       |       |       |       |       |       |                  |                  |
|                                                                                                                                                                                                    | COST (in millions) | FY95                                                                           | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| T20 Center for Standards                                                                                                                                                                           |                    | 2.943                                                                          | 2.185 | 1.582 | 1.639 | 1.687 | 1.851 | 2.001 | Contg            | Contg            |
| A. Mission Description & Budget Item Justification: (Continued)                                                                                                                                    |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| (U) FY 1996 Plans:                                                                                                                                                                                 |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Develop standards profile to support procurement of Defense Information Systems Network; (Sep 96; \$146K).                                                                                       |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Approve MIL-STD-187-700B, which provides for selected standards to evolve the future Defense Information System; (Sep 96; \$52K).                                                                |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Complete and approve Standard for Asynchronous Transfer Mode (ATM) on Network Node Interface (NNI) (Jun 96) and commence update of standard on ATM User Network Interface; (Jul 96; \$52K).      |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Complete development of Trusted Networking Security Standards; (Sep 96; \$100K).                                                                                                                 |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Tailor Personal Communications Standards (PCS) to meet DOD needs; (Sep 96; \$100K).                                                                                                              |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Complete development of Draft ATM over a Tactical Network Standard; (Aug 96; \$125K).                                                                                                            |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Complete development of Data Communications Standards incorporating INTERNET Protocols; (Sep 96; \$100K).                                                                                        |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Complete development of Standards to support the use of Commercial SATCOM; (Sep 96; \$75).                                                                                                       |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Revise and distribute parts of Joint Pub 6-05; (Ongoing; \$150K).                                                                                                                                |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Technical Standards support on Joint and Electronic Key Management Systems; (Ongoing; \$85K).                                                                                                    |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Validation and approval of Electronic Data Interchange (EDI), and DODISS Compartmented Work Station Security Standards; (Ongoing; \$100K).                                                       |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Validation and approval of initial Tactical Messaging Standards and initial Thin Stack Standards; (Ongoing; \$150K).                                                                             |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Maintain and expand IT Standards Framework, establish a repository of certified DOD IT standards profiles, provide direct standards profile selection support for DOD system; (Ongoing; \$285K). |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Design and develop advanced UHF SATCOM Modulation (AUSM); (Ongoing; \$665K).                                                                                                                     |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| \$2.185M Total                                                                                                                                                                                     |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| (U) FY 1997 Plans:                                                                                                                                                                                 |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Commence update of MIL-STD-187-700C for the Defense Information System; (Jun 97; \$100K).                                                                                                        |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Technical Standards support on Joint and Electronic Key Management Systems; (Ongoing; \$85K).                                                                                                    |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Exploration into User/System Developer Standards Requirements; (Ongoing; \$186K).                                                                                                                |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Develop Multicasting Lower Layer 3 Routing Standards; (Ongoing; \$112K).                                                                                                                         |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Enhance Lower Layer 4 Multicasting Standards; (Ongoing; \$105K).                                                                                                                                 |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Revise and distribute parts of Joint Pub 6-05; (Ongoing; \$240K).                                                                                                                                |                    |                                                                                |       |       |       |       |       |       |                  |                  |
| o Complete development of ITU X.400 Key Protocol Standards; (Ongoing; \$74K).                                                                                                                      |                    |                                                                                |       |       |       |       |       |       |                  |                  |

Page 3 of 18

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |                                                                                |        |        |       |       |       |       | DATE: March 1996 |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--------------------------------------------------------------------------------|--------|--------|-------|-------|-------|-------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  | R-1 ITEM NOMENCLATURE<br>C3 Interoperability 0208045K/Center for Standards/T20 |        |        |       |       |       |       |                  |            |
| RD1&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |                                                                                |        |        |       |       |       |       |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  | FY95                                                                           | FY96   | FY97   | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost |
| T20 Center for Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  | 2.943                                                                          | 2.185  | 1.582  | 1.639 | 1.687 | 1.851 | 2.001 | Contg            | Contg      |
| <p>A. <u>Mission Description &amp; Budget Item Justification:</u> (Continued)</p> <p>(U) FY 1997 Plans:</p> <ul style="list-style-type: none"> <li>o Validation and approval of Tactical Messaging Standards and initial Thin Stack Standards; (Ongoing; \$110K).</li> <li>o Validation and approval of Tactical Directory Standard; (Ongoing; \$90K).</li> <li>o Maintain and expand IT Standards Framework, establish a repository of certified DOD IT standards profiles, provide direct standards profile selection support for DOD system; (Ongoing; \$480K).</li> </ul> <p>\$1.582M Total</p> <p>B. <u>Program Change Summary</u></p> <p>Previous President's Budget (FY 1996)</p> <p>Appropriated Value</p> <p>Adjustments to Appropriated Value</p> <p>Adjustments to Budget Year Since FY 1996 President's Budget</p> <p>Current Budget Submit/President's Budget</p> <p>Change Summary Explanation:</p> <p>Funding: FY96 increase is due to below threshold reprogramming.<br/>FY97 reduction is due to revised inflation rates.</p> <p>Schedule: N/A<br/>Technical: N/A</p> <p>C. <u>Other Program Funding Summary</u></p> <p>O&amp;M</p> |  |  |                                                                                |        |        |       |       |       |       |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  | FY95                                                                           | FY96   | FY97   | FY98  | FY99  | FY00  | FY01  | Total Cost       | Contg      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  | 10.389                                                                         | 10.988 | 10.031 |       |       |       |       |                  |            |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                 |  |                                                       |       |       |       |       |       |       |                  | DATE: March 1996 |
|---------------------------------------------------------------------|--|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                       |  | R-1 ITEM NOMENCLATURE                                 |       |       |       |       |       |       |                  |                  |
| RDT&E, Defense Wide/07                                              |  | C3 Interoperability 0208045K/Center for Standards/T20 |       |       |       |       |       |       |                  |                  |
| COST (in millions)                                                  |  | FY95                                                  | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| T20 Center for Standards                                            |  | 2.943                                                 | 2.185 | 1.582 | 1.639 | 1.687 | 1.851 | 2.001 | Contg            | Contg            |
| D. <u>Schedule Profile</u>                                          |  |                                                       |       |       |       |       |       |       |                  |                  |
| (U) <u>FY 1995</u>                                                  |  |                                                       |       |       |       |       |       |       |                  |                  |
| o 1st Quarter - MIL-STD-188-164/165 (SHF)                           |  |                                                       |       |       |       |       |       |       |                  |                  |
| o 1st Quarter - ATM Standard                                        |  |                                                       |       |       |       |       |       |       |                  |                  |
| o 2nd Quarter - MIL-STD-188-331A (Draft VTC Multipoint)             |  |                                                       |       |       |       |       |       |       |                  |                  |
| (U) <u>FY 1996</u>                                                  |  |                                                       |       |       |       |       |       |       |                  |                  |
| o 3rd Quarter - EC/EDI Standard                                     |  |                                                       |       |       |       |       |       |       |                  |                  |
| o 4th Quarter - MIL-STD-188-220 (Revised Combat Net Radio Standard) |  |                                                       |       |       |       |       |       |       |                  |                  |
| o 4th Quarter - DISN Profile                                        |  |                                                       |       |       |       |       |       |       |                  |                  |
| (U) <u>FY 1997</u>                                                  |  |                                                       |       |       |       |       |       |       |                  |                  |
| o 1st Quarter - UHF SATCOM 5KHZ DAMA Waveform Standard (Voice)      |  |                                                       |       |       |       |       |       |       |                  |                  |
| o 2nd Quarter - ATM Standard (UNI-B)                                |  |                                                       |       |       |       |       |       |       |                  |                  |
| o 4th Quarter - Multicast                                           |  |                                                       |       |       |       |       |       |       |                  |                  |

Page 5 of 18

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)               |                                                  |                                |                               |                          |                                                                                |                |                |                |                       | DATE: March 1996 |
|------------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------|--------------------------|--------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07          |                                                  |                                |                               |                          | R-1 ITEM NOMENCLATURE<br>C3 Interoperability 0208045K/Center for Standards/T20 |                |                |                |                       |                  |
| A. <u>Project Cost Breakdown</u>                                 |                                                  |                                |                               |                          |                                                                                |                |                |                |                       |                  |
| Systems Engineering                                              |                                                  |                                |                               |                          |                                                                                |                |                |                |                       |                  |
| B. <u>Budget Acquisition History and Planning Information</u>    |                                                  |                                |                               |                          |                                                                                |                |                |                |                       |                  |
| Contractor or<br>Government<br>Performing<br>Activity<br>Program | Contract<br>Method/Type<br>or Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Prior to<br>FY95                                                               | Budget<br>FY95 | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete | Total            |
| LOGICON                                                          | C/CPFF                                           | 08/91                          | 12,490                        | 12,490                   | 2,209                                                                          | 2,131          | 1,520          | 1,250          | Contg                 | Contg            |
| All Other Contracts                                              |                                                  |                                |                               |                          | 812                                                                            | 812            | 665            | 332            | Contg                 | Contg            |
|                                                                  | Subtotal Contracts                               |                                |                               |                          | 3,021                                                                          | 2,943          | 2,185          | 1,582          |                       |                  |
| In House Engineering & Technical Support: N/A                    |                                                  |                                |                               |                          |                                                                                |                |                |                |                       |                  |
| TOTAL PROJECT                                                    |                                                  |                                |                               |                          |                                                                                |                |                |                |                       |                  |
|                                                                  |                                                  |                                |                               |                          | 3,021                                                                          | 2,943          | 2,185          | 1,582          |                       |                  |

Page 6 of 18

Page 6 of 18

R-1 Shopping List  
UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |                                                                  |      |      |      |      |      | DATE: March 1996 |                  |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------|------|------|------|------|------|------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  | R-1 ITEM NOMENCLATURE                                            |      |      |      |      |      |                  |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  | C3 Interoperability 0208045K/Technology Assessment and Insertion |      |      |      |      |      |                  |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  | FY95                                                             | FY96 | FY97 | FY98 | FY99 | FY00 | FY01             | Cost of Complete | Total Cost |
| T80 Technology Assessment and Insertion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  | 0*                                                               | .571 | .563 | .584 | .601 | .658 | .712             | Contg            | Contg      |
| <p>A. <u>Mission Description &amp; Budget Item Justification:</u> * This project is not a new start but has evolved from an existing effort within Project T30, Test and Evaluation. This project continues to plan and promote an expeditious and cost effective development of needed information technology capabilities by targeting R&amp;D efforts to DOD mission needs and leveraging on DOD and industry developments. It provides for the transition of new technologies into leading edge and core information services.</p> <p>(U) FY 1995 Plans: Effort previously in Project T30.</p> <p>(U) FY 1996 Plans:</p> <ul style="list-style-type: none"> <li>o Engineering for Network Engineering Assessment Facility (NEAF); (Ongoing; \$185K);</li> <li>o Engineering for ATM systems for Non-Secure Internet Protocol Router Network (NIPRNET) and Global Combat Support Systems (GCSS); (Ongoing; \$386K);</li> </ul> <p>\$ .571M Total</p> <p>(U) FY 1997 Plans:</p> <ul style="list-style-type: none"> <li>o Engineering for Network Engineering Assessment Facility (NEAF); (Ongoing; \$200K);</li> <li>o Engineering for ATM systems for NIPRNET and GCSS; (Ongoing; \$363K);</li> </ul> <p>\$ .563M Total</p> |  |  |  |                                                                  |      |      |      |      |      |                  |                  |            |

UNCLASSIFIED



UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                      |                                                         |                                       |                                      |                                 |                                                                                               |                |                |                |                       | DATE: March 1996 |
|-------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------|--------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                 |                                                         |                                       |                                      |                                 | R-1 ITEM NOMENCLATURE<br>C3 Interoperability 0208045K/Technology Assessment and Insertion/T80 |                |                |                |                       |                  |
| A. <u>Project Cost Breakdown</u>                                        |                                                         |                                       |                                      |                                 | FY95                                                                                          |                | FY96           |                | FY97                  |                  |
| Systems Engineering                                                     |                                                         |                                       |                                      |                                 | 0                                                                                             |                | 571            |                | 563                   |                  |
| B. <u>Budget Acquisition History and Planning Information</u>           |                                                         |                                       |                                      |                                 |                                                                                               |                |                |                |                       |                  |
| Contractor or<br>Government<br>Performing<br>Activity<br><u>Program</u> | Contract<br>Method/Type<br>or Funding<br><u>Vehicle</u> | Award or<br>Obligation<br><u>Date</u> | Performing<br>Activity<br><u>EAC</u> | Project<br>Office<br><u>EAC</u> | Prior to<br>FY95                                                                              | Budget<br>FY95 | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete | Total<br>Program |
| All Other Contracts                                                     |                                                         |                                       |                                      |                                 | 0                                                                                             | 0              | 571            | 563            | Contg                 | Contg            |
| Subtotal Contracts                                                      |                                                         |                                       |                                      |                                 | 0                                                                                             | 0              | 571            | 563            |                       |                  |
| In House Engineering & Technical Support: N/A                           |                                                         |                                       |                                      |                                 |                                                                                               |                |                |                |                       |                  |
| TOTAL PROJECT                                                           |                                                         |                                       |                                      |                                 | 0                                                                                             | 0              | 571            | 563            |                       |                  |

Page 9 of 18

Page 9 of 18

R-1 Shopping List  
UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |                                                      |        |        |        |        |        | DATE: March 1996 |                  |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------|--------|--------|--------|--------|--------|------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         | R-1 ITEM NOMENCLATURE                                |        |        |        |        |        |                  |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         | C3 Interoperability 0208045K/Test and Evaluation/T30 |        |        |        |        |        |                  |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         | FY95                                                 | FY96   | FY97   | FY98   | FY99   | FY00   | FY01             | Cost of Complete | Total Cost |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | T30 Test and Evaluation |                                                      | 20.679 | 13.080 | 14.449 | 15.081 | 15.665 | 16.516           | 17.466           | Contg      |
| <p>A. Mission Description &amp; Budget Item Justification: Through effective life cycle test and evaluation (T&amp;E), this project ensures that C3I and information systems (IS) developed by DOD Components are interoperable and permit flexible employment of forces throughout the world. T&amp;E is performed throughout the entire life cycle including proof-of-concept, system development, system deployment, and system upgrade and modification. This T&amp;E includes interoperability, performance, operational test and evaluation, systems effectiveness and force effectiveness testing of all C3I and IS system standards and system interfaces used in joint and combined operations.</p> <p>(U) FY 1995 Plans:</p> <ul style="list-style-type: none"> <li>o Develop Independent Evaluation Reports (IER) for Phase I DISN testing; perform independent evaluation of DMS X.400 project; and conduct operational evaluation of DISN Integrated Network Management System (NMS), GCCS, and other DISA oversight programs; (Sep 95; \$1835K).</li> <li>o Continue to support CINC exercises; (Sep 95; \$920K).</li> <li>o Continue to perform interoperability and technical testing and demonstrations of the following system interfaces and standards: DSN, AN/USC-42 (Mini-DAMA), Ultrahigh Frequency Satellite Terminal System, Joint Advanced Special Operations Radio System (JASORS), DISN, ITSDN, JTIDS, Global Grid, Asynchronous Transfer Mode (ATM), JWIDs, and multiple US command and control systems employing TADILS A/B/C/I, ATDL-1, USMTF and Variable Message Format standards; (Sep 95; \$6249K).</li> <li>o In conjunction with DISA's new mission to support testing and associated training activities of the Navy Computer and Telecommunications Command, support the following programs: Beta and OT&amp;E of Navy unique and DMS joint projects, Naval Communications Processing and Routing System (NAVCOMPARS), Naval Communications Processing and Routing Follow-on System (NAVCOMPARS II), Navy Message Switching System (NMSS), Multilevel Mail Server (MSS), Message Distribution Terminal (MDT); (Ongoing, \$5645K).</li> <li>o Continue to document C3 equipment strings; perform major switch tests (Sep 95, \$1141K).</li> <li>o Test/evaluate/certify information transfer systems related to GCCS; ensure that GCCS provides quality command and control capability to the warfighter CINC's via timely and cost effective migration; (Sep 95, \$309K).</li> <li>o Develop next version of the Leading Edge Services Plan to include technology areas such as distributed computing, generic workstations, high speed interfaces and update existing technology areas; (Ongoing, \$450K).</li> <li>o Harmonize and integrate Global Grid and Joint Director's Laboratory efforts with new version of Leading Edge Services Plan; (Ongoing, \$300K).</li> <li>o Provide the planning for advanced technology demonstrations and play the principal role in evaluating their capabilities for providing leading edge services to DOD customers; (Ongoing, \$100K).</li> <li>o Lead technical support to DOD wide technology insertion working groups; (Ongoing, \$75K).</li> <li>o Lead technical support to DISA technology working groups; (Ongoing, \$75K).</li> <li>o Continue to provide other CINC support; (Ongoing, \$3,580K).</li> </ul> <p>\$20.679M Total</p> |                         |                                                      |        |        |        |        |        |                  |                  |            |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                               |        |        |        |        |        |        |                  | DATE: March 1996 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | R-1 ITEM NOMENCLATURE<br>C3 Interoperability 0208045K/Test and Evaluation/T30 |        |        |        |        |        |        |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | FY95                                                                          | FY96   | FY97   | FY98   | FY99   | FY00   | FY01   | Cost of Complete | Total Cost       |
| T30 Test and Evaluation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 20.679                                                                        | 13.080 | 14.449 | 15.081 | 15.665 | 16.516 | 17.466 | Contg            | Contg            |
| <p><b>A. Mission Description &amp; Budget Item Justification: (Continued)</b></p> <p>(U) FY 1996 Plans:</p> <ul style="list-style-type: none"> <li>o Provide independent operational evaluation and assessments of Defense Information Infrastructure (DII) programs, i.e., Defense Message System (DMS), Defense Information Systems Network (DISN), Global Command and Control System (GCCS) and Survivable Secure Communications Network (SSCN). (Sep 96, \$1446K).</li> <li>o Provide CINC interoperability testing and technical assistance; publish Lessons Learned Report sharing C4I problems, issues and solutions: (Ongoing, \$649K).</li> <li>o Perform interoperability and technical testing for the following C4I/TW system interfaces and standards: Defense Information Systems Network, Defense Message System, AN/USC-42 (Mini-DAMA), Military Strategic and Tactical Relay (MILSTAR) Satellite Program, Ultrahigh Frequency Satellite Terminal System, Global Grid, Asynchronous Transfer Mode (ATM), and multiple US command and control systems employing TADILS A/B/C/J, ATDL-1, USMTF and VMF standards (Ongoing, \$4839K).</li> <li>o Provide technical and operational fixes to interface and interoperability problems in a coordinated environment involving both the user and the developer/commercial vendor; provide the Commander in Chief Joint Task Force planner operational guidance in the planning, establishment and employment of tactical multi-Service systems and the integration of these systems into the Strategic Network and Defense Information Infrastructure. Document critical C3 equipment strings (Sep 96, \$800K).</li> <li>o In conjunction with the Defense Information Systems Agency's mission to provide testing and associated training and implementation support for the Navy Computer and Telecommunications Command support the following automated information systems and programs: BETA and interoperability Test and Evaluation of Navy unique and Defense Message System joint projects, Multilevel Mail Server (MMS), Message Distribution Terminal (MDT), Emergency Shore and Fleet Support. Types of testing include hardware acceptance testing (HAT), quality acceptance testing (QA), interface/interoperability certification testing (ICT), software change proposal testing (SCP), security test and evaluation (ST&amp;E) and DMS functional testing: (Ongoing, \$4503K).</li> <li>o Test/evaluate/certify information transfer systems related to GCCS; ensure that GCCS provides quality command and control capability to the warfighter CINCs via timely and cost effective migration; (Sep 96, \$843).</li> </ul> <p>\$13.080M Total</p> |  |                                                                               |        |        |        |        |        |        |                  |                  |

Page 11 of 18

UNCLASSIFIED

15

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |                                                                               |        |        |        |        | DATE: March 1996 |        |                  |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|-------------------------------------------------------------------------------|--------|--------|--------|--------|------------------|--------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  | R-1 ITEM NOMENCLATURE<br>C3 Interoperability 0208045K/Test and Evaluation/T30 |        |        |        |        |                  |        |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  | FY95                                                                          | FY96   | FY97   | FY98   | FY99   | FY00             | FY01   | Cost of Complete | Total Cost |
| T30 Test and Evaluation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  | 20.679                                                                        | 13.080 | 14.449 | 15.081 | 15.665 | 16.516           | 17.466 | Contg            | Contg      |
| <p><b>A. Mission Description &amp; Budget Item Justification: (Continued)</b></p> <p>(U) FY 1997 Plans</p> <ul style="list-style-type: none"> <li>o Evaluate systems operational effectiveness and suitability for fielding for the following Defense Information Systems Agency oversight programs: Defense Message System, Global Command and Control System, and Defense Information Systems Network; (Sep 97, \$1570K).</li> <li>o Provide interoperability testing and technical assistance; publish Lessons Learned Report sharing C4I problems, issues and solutions; (Ongoing, \$584K).</li> <li>o Perform interoperability and technical testing for the following C4I/TW system interfaces and standards; Defense Information Systems Network (DISN), AN-USC-42 (Mini- DAMA), Military Strategic and Tactical Relay (MILSTAR) Satellite Program, Ultrahigh Frequency Satellite Terminal System, Global Grid, Asynchronous Transfer Mode (ATM), and multiple US command and control systems employing TADILS A/B/C/J, ATDL-1, USMTF and VMF standards; (Ongoing, \$5651K).</li> <li>o Provide technical and operational fixes to interface and interoperability problems in a coordinated environment involving both the user and the developer/commercial vendor; provide the Commander in Chief Joint Task Force planner operational guidance in the planning, establishment and employment of tactical multi-Service systems and the integration of these systems into the Strategic Network and Defense Information Infrastructure. Document critical C3 equipment strings; (Sep 97, \$778K).</li> <li>o In conjunction with the Defense Information Systems Agency's mission to provide testing and associated training and implementation support for the Navy Computer and Telecommunications Command, support the following automated information systems and programs: BETA and interoperability Test and Evaluation of Navy unique and Defense Message System joint projects, Multilevel Mail Server (MMS), Message Distribution Terminal (MDT), Emergency Shore and Fleet Support. Types of testing include hardware acceptance testing (HAT), quality acceptance testing (QA), interface/interoperability certification testing (ICT), software change proposal testing (SCP), security test and evaluation (ST&amp;E) and DMS functional testing; (Ongoing, \$4943K).</li> <li>o Test/evaluate/certify information transfer systems related to GCCS; ensure that GCCS provides quality command and control capability to the warfighter CINCs via timely and cost effective migration; (Sep 97, \$773K).</li> <li>o Assesses CINCs intelligence systems interoperability initiatives; (Sep 97, \$150K).</li> </ul> <p>\$14.449M Total</p> |  |  |  |  |                                                                               |        |        |        |        |                  |        |                  |            |

Page 12 of 18

UNCLASSIFIED

## RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

**DATE:** March 1996

| APPROPRIATION/BUDGET ACTIVITY |        | R-1 ITEM NOMENCLATURE                                |        |        |        |        |        |                  |            |
|-------------------------------|--------|------------------------------------------------------|--------|--------|--------|--------|--------|------------------|------------|
| RDT&E, Defense Wide/07        |        | C3 Interoperability 0208045K/Test and Evaluation/T30 |        |        |        |        |        |                  |            |
| COST (in millions)            | FY95   | FY96                                                 | FY97   | FY98   | FY99   | FY00   | FY01   | Cost of Complete | Total Cost |
| T30 Test and Evaluation       | 20.679 | 13.080                                               | 14.449 | 15.081 | 15.665 | 16.516 | 17.466 | Contig           | Contig     |

Previous President's Budget (FY 1996)  
Appropriated Value  
Adjustments to Appropriated Value  
Adjustments to Budget Year Since FY 1996  
Current Budget Submit/President's Budget  
Change Summary Explanation:

|             |             |
|-------------|-------------|
| <b>FY96</b> | <b>FY97</b> |
| 14.677      | 14.413      |
| 14.677      |             |
| -1.597      | .036        |
| 13.080      | 14.449      |

**Funding:** FY95 adjustment is the result of below threshold reprogramming.

FY95 adjustment is the result of below threshold reprogramming.  
 FY96 adjustment is due to congressional adjustments to Defense Wide Appropriations and below threshold reprogramming..  
 FY97 adjustment is due to revised fiscal guidance and realignment of funds.

**Schedule:** N/A  
**Technical:** N/A

**C. Other Program Funding Summary: N/A**

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                       |        |        |        |        |        |        |                  | DATE: March 1996                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|--------|--------|--------|--------|--------|--------|------------------|------------------------------------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | R-1 ITEM NOMENCLATURE |        |        |        |        |        |        |                  | C3 Interoperability 0208045K/Test and Evaluation/T30 |  |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                       |        |        |        |        |        |        |                  |                                                      |  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | FY95                  | FY96   | FY97   | FY98   | FY99   | FY00   | FY01   | Cost of Complete | Total Cost                                           |  |
| T30 Test and Evaluation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                       | 20.679 | 13.080 | 14.449 | 15.081 | 15.665 | 16.516 | 17.466           | Contg                                                |  |
| <p>D. <u>Schedule Profile:</u></p> <p>(U) FY 1995</p> <ul style="list-style-type: none"> <li>2nd Quarter - IER for Phase I DISN testing; DMS X.400 project; OT&amp;E of DISN INMS, GCCS and others. In conjunction with DISA's mission to support testing and associated training activities of the Navy Computer and Telecommunications Command, support the following programs: BETA and OT&amp;E of Navy unique and DMS joint projects, Multilevel Mail Server (MMS), Message Distribution Terminal (MDT).</li> <li>4th Quarter - Interoperability and technical testing for the following: GCCS, DSN, AN/USC-42 (Mini-DAMA), Ultrahigh Frequency Satellite Terminal System, JASORS, DISN, ITSDN, JTIDS, Global Grid, Asynchronous Transfer Mode (ATM), and multiple US command and control systems employing TADILS A/B/C/J, ATDL-1, USMTF and VHF standards. C4FTW STDN/JWID demonstrations and assessments.</li> </ul> <p>(U) FY 1996</p> <ul style="list-style-type: none"> <li>2nd Quarter - IER for Phase I DISN testing; DMS X.400 project; OT&amp;E of DISN INMS, GCCS and others. In conjunction with DISA's mission to support testing and associated training activities of the Navy Computer and Telecommunications Command, support the following programs: BETA and OT&amp;E of Navy unique and DMS joint projects, Multilevel Mail Server (MMS), Message Distribution Terminal (MDT).</li> <li>4th Quarter - Interoperability and technical testing for the following: GCCS, AN/USC-42 (Mini-DAMA), Ultrahigh Frequency Satellite Terminal System, DISN, Global Grid, Asynchronous Transfer Mode (ATM), and multiple US command and control systems employing TADILS A/B/C/J, ATDL-1, USMTF and VHF standards.</li> </ul> <p>(U) FY 1997</p> <ul style="list-style-type: none"> <li>2nd Quarter - DMS X.400 project; OT&amp;E of DISN INMS, GCCS and others. In conjunction with DISA's mission to support testing and associated training activities of the Navy Computer and Telecommunications Command, support the following programs: BETA and OT&amp;E of Navy unique and DMS joint projects, Multilevel Mail Server, (MMS), Message Distribution Terminal (MDT).</li> <li>4th Quarter - Interoperability and technical testing for the following: GCCS, AN/USC-42 (Mini-DAMA), Ultrahigh Frequency Satellite Terminal System, DISN, Global Grid, Asynchronous Transfer Mode (ATM), and multiple US command and control systems employing TADILS A/B/C/J, ATDL-1, USMTF and VHF standards.</li> </ul> |  |                       |        |        |        |        |        |        |                  |                                                      |  |

Page 14 of 18

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                                           |                                                  |                                |                               |                          |                                                      |                |                |                       |                  | DATE: March 1996 |
|----------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------|--------------------------|------------------------------------------------------|----------------|----------------|-----------------------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                |                                                  |                                |                               |                          | R-1 ITEM NOMENCLATURE                                |                |                |                       |                  |                  |
| RDT&E, Defense Wide/07                                                                       |                                                  |                                |                               |                          | C3 Interoperability 0208045K/Test and Evaluation/T30 |                |                |                       |                  |                  |
| A. <u>Project Cost Breakdown</u>                                                             |                                                  |                                |                               |                          | FY95                                                 | FY96           | FY97           |                       |                  |                  |
| C3I Interoperability and Information Systems Testing                                         |                                                  |                                |                               |                          | 20,679                                               | 13,080         | 14,449         |                       |                  |                  |
| B. <u>Budget Acquisition History and Planning Information</u>                                |                                                  |                                |                               |                          |                                                      |                |                |                       |                  |                  |
| Test and Evaluation Organizations                                                            |                                                  |                                |                               |                          |                                                      |                |                |                       |                  |                  |
| Contractor or<br>Government<br>Performing<br>Activity<br>Program                             | Contract<br>Method/Type<br>or Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Prior to<br>FY95                                     | Budget<br>FY95 | Budget<br>FY96 | Budget To<br>Complete | Total<br>Program |                  |
| * LOGICON                                                                                    | C-CPAF                                           | 08/91                          | 12,252                        | 12,252                   | 9,134                                                | 2,722          | 1,396          | Contig                | Contig           |                  |
| * INTEROP                                                                                    | C-CPAF                                           | 08/91                          | 12,870                        | 12,870                   | 9,610                                                | 2,846          | 1,594          | Contig                | Contig           |                  |
| * BDM                                                                                        | C-CPAF                                           | 08/91                          | 11,880                        | 11,880                   | 8,855                                                | 2,670          | 1,854          | Contig                | Contig           |                  |
| * VALIDITY                                                                                   | C-T&M                                            | 10/91                          | 3,769                         | 3,769                    | 0                                                    | 3,158          | 1,611          | Contig                | Contig           |                  |
| All Other Contracts                                                                          |                                                  |                                |                               |                          | 0                                                    | 1,371          | 0              | Contig                | Contig           |                  |
| Subtotal Contracts                                                                           |                                                  |                                |                               |                          | 27,599                                               | 12,767         | 6,455          | Contig                | Contig           |                  |
| In House Engineering & Technical Support                                                     |                                                  |                                |                               |                          |                                                      |                |                |                       |                  |                  |
| Subtotal In-House                                                                            |                                                  |                                |                               |                          |                                                      | 7,912          | 6,625          |                       | 7,840            |                  |
| TOTAL PROJECT                                                                                |                                                  |                                |                               |                          |                                                      | 20,679         | 13,080         |                       | 14,449           |                  |
| * Current OMNIBUS contracts will expire in FY 96 and new contracts will be awarded in FY 97. |                                                  |                                |                               |                          |                                                      |                |                |                       |                  |                  |
|                                                                                              |                                                  |                                |                               |                          |                                                      |                |                |                       |                  | Page 15 of 18    |

R-1 Shopping List  
UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                         |       |       |       |       |       |       |                  | DATE: March 1996 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | R-1 ITEM NOMENCLATURE                                                   |       |       |       |       |       |       |                  |                  |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | C3 Interoperability 0208045K/Major Range and Test Facility Base (MRTFB) |       |       |       |       |       |       |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | FY95                                                                    | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| T40 Major Range and Test Facility Base (MRTFB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | 8.829                                                                   | 7.356 | 7.674 | 8.009 | 8.344 | 8.860 | 9.368 | Contg            | Contg            |
| <p>A. <u>Mission Description &amp; Budget Item Justification:</u> This project provides resources to operate DISA's Joint Interoperability Test Command (JITC) which is a member of DOD's Major Range and Test Facility Base (MRTFB). Indirect operation/maintenance expenses, overall testbed improvement and modernization, and facility and logistics support are included in this project.</p> <p>(U) FY 1995 Accomplishments:</p> <ul style="list-style-type: none"> <li>o Develop automated systems to facilitate test and evaluation and maximize use of test assets; develop and enhance Corporate Database and other microcomputer applications to provide cost accounting reports to track and catalog customer expenses for internal and external processes and customer disclosure; continue to develop automated support for management of contracts, manpower and fiscal resources; provide base operations business support to JITC's testing mission; (Ongoing; \$2206K).</li> <li>o Maintain and operate the JITC test facilities at Fort Huachuca, AZ; VA and the newly incorporated Cheltenham, MD for DOD use; (Ongoing; \$6623K).</li> </ul> <p>\$8.829M Total</p> <p>(U) FY 1996 Plans:</p> <ul style="list-style-type: none"> <li>o Develop automated systems to facilitate test and evaluation and maximize use of test assets; develop and enhance Corporate Database and other microcomputer applications to provide cost accounting reports to track and catalog customer expenses for internal and external processes and customer disclosure; continue to develop automated support for management of contracts, manpower and fiscal resources; provide base operations business support to JITC's testing mission; (Ongoing; \$1576K).</li> <li>o Maintain and operate the JITC test facilities at Fort Huachuca, AZ; VA and Cheltenham, MD for DOD use; (Ongoing; \$5780K).</li> </ul> <p>\$7.356M Total</p> <p>(U) FY 1997 Plans:</p> <ul style="list-style-type: none"> <li>o Develop automated systems to facilitate test and evaluation and maximize use of test assets; develop and enhance Corporate Database and other microcomputer applications to provide cost accounting reports to track and catalog customer expenses for internal and external processes and customer disclosure; continue to develop automated support for management of contracts, manpower and fiscal resources; provide base operations business support to JITC's testing mission; (Ongoing; \$1921K).</li> <li>o Maintain and operate the JITC test facilities at Fort Huachuca, AZ; VA and Cheltenham, MD for DOD use; (Ongoing; \$5753K).</li> </ul> <p>\$7.674M Total</p> |  |                                                                         |       |       |       |       |       |       |                  |                  |

Page 16 of 18

UNCLASSIFIED

20

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                         |       |       |       |       |       |       |                  | DATE: March 1996 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | R-1 ITEM NOMENCLATURE                                                   |       |       |       |       |       |       |                  |                  |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | C3 Interoperability 0208045K/Major Range and Test Facility Base (MRTFB) |       |       |       |       |       |       |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | FY95                                                                    | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| T40 Major Range and Test Facility Base (MRTFB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 8.829                                                                   | 7.356 | 7.674 | 8.009 | 8.344 | 8.860 | 9.368 | Contg            | Contg            |
| <p><b>B. <u>Program Change Summary</u></b></p> <p>Previous President's Budget (FY 1996) <span style="float:right">FY96</span></p> <p>Appropriated Value <span style="float:right">8.829</span></p> <p>Adjustments to Appropriated Value <span style="float:right">7.948</span></p> <p>Adjustments to Budget Year Since FY 1996 President's Budget <span style="float:right">-592</span></p> <p>Current Budget Submit/President's Budget <span style="float:right">7.356</span></p> <p>Change Summary Explanation: <span style="float:right">FY97</span></p> <p>FY96 adjustment is due to congressional adjustments to Defense Wide Appropriations and below threshold reprogramming. <span style="float:right">7.805</span></p> <p>FY97 adjustment is due to revised inflation rates. <span style="float:right">-131</span></p> <p><span style="float:right">7.674</span></p> |  |                                                                         |       |       |       |       |       |       |                  |                  |
| <p><b>C. <u>Other Program Funding Summary</u>: N/A</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                         |       |       |       |       |       |       |                  |                  |
| <p><b>D. <u>Schedule Profile Milestones</u></b></p> <p>(U) FY 1995</p> <p>1st-4th Quarter--Multi level security accreditation and certification of C3I systems; Upgrade wireless systems testbed; Enhanced Traffic Loading Device; Establish Test Support Subsystem; FY 95 network T&amp;E requirements; BOS and RPMAR and Corporate MIS Database; Improvement and modernization.</p> <p>(U) FY 1996</p> <p>1st-4th Quarter- BOS and RPMAR and Corporate MIS Database; business process review and improvement; test infrastructure</p> <p>(U) FY 1997</p> <p>1st-4th Quarter- BOS and RPMAR and Corporate MIS Database; business process review and improvement; test infrastructure</p>                                                                                                                                                                                     |  |                                                                         |       |       |       |       |       |       |                  |                  |

Page 17 of 18

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                                      |                                         |                          |                         |                    |                                                                          |             |             |             |                    | DATE: March 1996 |
|-----------------------------------------------------------------------------------------|-----------------------------------------|--------------------------|-------------------------|--------------------|--------------------------------------------------------------------------|-------------|-------------|-------------|--------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                           |                                         |                          |                         |                    | R-1 ITEM NOMENCLATURE                                                    |             |             |             |                    |                  |
| RDT&E, Defense Wide/07                                                                  |                                         |                          |                         |                    | C3 Interoperability/0208045K/Major Range and Test Facility Base (MR.TFB) |             |             |             |                    |                  |
| A. <u>Project Cost Breakdown</u>                                                        |                                         |                          |                         |                    |                                                                          |             |             |             |                    |                  |
| a. Improvement and Modernization (I&M)                                                  |                                         |                          |                         |                    | FY95                                                                     | FY96        | FY97        |             |                    |                  |
| b. Base Operating Support (BOS)                                                         |                                         |                          |                         |                    | 840                                                                      | 651         | 612         |             |                    |                  |
| c. Other Institutional Expenses                                                         |                                         |                          |                         |                    | 1,604                                                                    | 891         | 927         |             |                    |                  |
|                                                                                         |                                         |                          |                         |                    | 6,385                                                                    | 5,814       | 6,135       |             |                    |                  |
| TOTAL:                                                                                  |                                         |                          |                         |                    | 8,829                                                                    | 7,356       | 7,674       |             |                    |                  |
| B. <u>Budget Acquisition History and Planning Information</u>                           |                                         |                          |                         |                    |                                                                          |             |             |             |                    |                  |
| Contractor or Government Performing Activity Program                                    | Contract Method/Type or Funding Vehicle | Award or Obligation Date | Performing Activity EAC | Project Office EAC | Prior to FY95                                                            | Budget FY95 | Budget FY96 | Budget FY97 | Budget To Complete | Total Program    |
| * LOGICON                                                                               | C-CPAF                                  | 08/91                    | 5,247                   | 5,247              | 7,882                                                                    | 663         | 0           | 748         | Contg              | Contg            |
| * INTEROP                                                                               | C-CPAF                                  | 08/91                    | 4,468                   | 4,468              | 6,693                                                                    | 564         | 2,186       | 748         | Contg              | Contg            |
| * BDM                                                                                   | C-CPAF                                  | 08/91                    | 5,361                   | 5,361              | 7,527                                                                    | 618         | 0           | 749         | Contg              | Contg            |
| * VALIDITY                                                                              | C-T&M                                   | 10/91                    | 1,747                   | 1,747              | 0                                                                        | 1,106       | 0           | 0           | Contg              | Contg            |
| Subtotal Contracts                                                                      |                                         |                          |                         |                    | 22,102                                                                   | 2,951       | 2,186       | 2,245       | Contg              | Contg            |
| In House Engineering & Technical Support                                                |                                         |                          |                         |                    |                                                                          |             |             |             |                    |                  |
| Subtotal In-House                                                                       |                                         |                          |                         |                    |                                                                          | 5,878       | 5,170       | 5,429       |                    |                  |
| TOTAL PROJECT                                                                           |                                         |                          |                         |                    |                                                                          | 8,829       | 7,356       | 7,674       |                    |                  |
| TOTAL MANAGEMENT AND SUPPORT                                                            |                                         |                          |                         |                    |                                                                          |             |             |             |                    |                  |
| * Current OMNIBUS contracts expire in FY 96 and new contracts will be awarded in FY 97. |                                         |                          |                         |                    |                                                                          |             |             |             |                    |                  |

Page 18 of 18

R-1 Shopping List  
UNCLASSIFIED

22

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                        |       |       |       |       |       |       |                  | DATE: March 1996 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | R-1 ITEM NOMENCLATURE<br>National Military Command System (NMCS)-Wide Support/0302016K |       |       |       |       |       |       |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | FY95                                                                                   | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| Total Program Element (PE) Cost                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 3.536                                                                                  | 1.995 | 2.047 | 2.158 | 2.234 | 2.356 | 2.481 | Contg            | Contg            |
| NMCS Subsystem Engineering/T50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 1.553                                                                                  | .400  | .379  | .428  | .465  | .552  | .643  | Contg            | Contg            |
| Contingency Planning for the President (CPP)/T51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | .270                                                                                   | 0*    | 0     | 0     | 0     | 0     | 0     | Contg            | Contg            |
| NMCS Command Center Engineering/S32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | 1.314                                                                                  | 1.221 | 1.268 | 1.315 | 1.337 | 1.359 | 1.378 | Contg            | Contg            |
| Support to Defense Support Activity (DSA)/Z60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | .399                                                                                   | .374  | .400  | .415  | .432  | .445  | .460  | Contg            | Contg            |
| <p>A. Mission Description and Budget Item Justification:</p> <p>This program provides concept development, requirements definition, proof-of-principle experiments, rapid prototyping and technology insertions, technical specifications, systems engineering and integration, and technical assessments for NMCS Command and Control (C2) systems. This support provides informed decision-making linkage between the National Command Authorities (NCA) and the Commanders-in-Chief (CINC) of the Unified and the Specified Commands. Concentrating on the CINCs, this engineering draws upon improved C2 methodologies and technology insertion opportunities to meet the command, control and information system requirements of the CINCs for all crises and security threats involving US military forces. These efforts emphasize interoperability and are designed to contribute directly to the achievement of the global C4I infrastructure. This program element is under Budget Activity 07 because it involves efforts supporting operational systems development.</p> |  |                                                                                        |       |       |       |       |       |       |                  |                  |
| *In FY96, this project transfers to PE0303131K.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                        |       |       |       |       |       |       |                  |                  |

Page 1 of 17

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |                                                               |      |      |      |      |      |      | DATE: March 1996 |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------|------|------|------|------|------|------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  | R-1 ITEM NOMENCLATURE                                         |      |      |      |      |      |      |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  | National Military Command System (NMCS)-Wide Support/0302016K |      |      |      |      |      |      |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  | FY95                                                          | FY96 | FY97 | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost |
| NMCS Subsystem Engineering/T50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  | 1.553                                                         | .400 | .379 | .428 | .465 | .552 | .643 | Contg            | Contg      |
| <p>A. <u>Mission Description &amp; Budget Item Justification:</u> This project provides subsystem engineering support to C4I systems by developing customized, interoperable information systems from systems technical architectures; identifies, prototypes and evaluates subsystem components in C2 environment; provides technology assessments of Commercial Off-the-Shelf Software/Government Off-the-Shelf Software (COTS/GOTS) products; and evaluates the utility of advance command center system support capabilities for interfacing with CINC C2 Information Systems. To accommodate rapid changes in requirements and increasing budget pressures, new approaches to reduce development and integration time, as well as costs for command and control systems, must be sought. The active participation in Secure Tactical Data Network (STDN) demonstrations provides a rapid assessment of technology advances and generates interoperability issues and associated solutions. The objective of the Multi-Level Security (MLS) program is to expedite the fielding of MLS technology and capabilities in DOD through MLS technology insertion in support of the Global Command and Control System (GCCS). Beginning FY 1996, the MLS portion of this project will migrate to the O&amp;M appropriation under PE 0303150K.</p> <p><u>FY 1995 Accomplishments:</u></p> <ul style="list-style-type: none"><li>o Document findings of JWID-94 (Nov 94; \$75K).</li><li>o Plan and participate in JWID-95, incorporating new technologies such as image manipulation, new mapping technology, communications management and data compression, and cost-effective distributed computing (Sep 95; \$101K).</li><li>o Perform field evaluations for the "flyaway" workstations delivered to the Marines in the Pacific (Feb 95; \$92K).</li><li>o Continue to evaluate the performance of flyaway workstations by collecting information from competing vendors and by prototyping new capabilities (Sep 95; \$149K).</li><li>o Continue to implement and assess a deployable JTF "modular C4I package" and transition to a common JTF solution for CINCs (Sep 95; \$200K).</li><li>o Analyze and evaluate candidate software products for the evolving GCCS baseline (Jun 95; \$500K).</li><li>o Provide mission support to Joint Staff and operational CINC level through test and evaluation of integrated GCCS C3 hardware and system network and joint application software (Sep 95; \$436K).</li></ul> <p>\$1.553M Total</p> |  |  |                                                               |      |      |      |      |      |      |                  |            |

Page 2 of 17

Page 2 of 17

UNCLASSIFIED

24

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |                                                               |      |      |      |      |      |      | DATE: March 1996 |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------|------|------|------|------|------|------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  | R-1 ITEM NOMENCLATURE                                         |      |      |      |      |      |      |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  | National Military Command System (NMCS)-Wide Support/0302016K |      |      |      |      |      |      |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  | FY95                                                          | FY96 | FY97 | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost |
| NMCS Subsystem Engineering/T50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  | 1.553                                                         | .400 | .379 | .428 | .465 | .552 | .643 | Contig           | Contig     |
| <p><b>FY 1996 Plans:</b></p> <ul style="list-style-type: none"> <li>o Continue to participate in JWID and similar exercises to assess interoperability among the Services and to introduce new technology (Sep 96; \$129K).</li> <li>o Continue to improve the capabilities of portable flyaway packages through prototyping and evaluations (Sep 96; \$271K).</li> </ul> <p><b>\$ .400M Total</b></p> <p><b>FY 1997 Plans:</b></p> <ul style="list-style-type: none"> <li>o Make enhancements to the JTF Deployable System (Sep 97; \$245K).</li> <li>o Conduct workstation technology assessments (Sep 97; \$50K).</li> <li>o Make COTS/GOTS integration enhancements (Sep 97; \$84K).</li> </ul> <p><b>\$ .379M Total</b></p> <p>Acquisition strategy: ElectroSpace Systems Inc., Arlington, VA; Booz-Allen &amp; Hamilton Inc., Arlington, VA</p> |  |  |                                                               |      |      |      |      |      |      |                  |            |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                      |  |  |  |                                                                                                                                                   |       |       |      |      |      | DATE: March 1996 |                  |            |
|------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|------|------|------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                            |  |  |  | R-1 ITEM NOMENCLATURE                                                                                                                             |       |       |      |      |      |                  |                  |            |
| RDT&E, Defense Wide/07                                                                   |  |  |  | National Military Command System (NMCS)-Wide Support/0302016K                                                                                     |       |       |      |      |      |                  |                  |            |
| COST (in millions)                                                                       |  |  |  | FY95                                                                                                                                              | FY96  | FY97  | FY98 | FY99 | FY00 | FY01             | Cost of Complete | Total Cost |
| NMCS Subsystem Engineering/T50                                                           |  |  |  | 1.553                                                                                                                                             | .400  | .379  | .428 | .465 | .552 | .643             | Contig           | Contig     |
| B. Program Change Summary:                                                               |  |  |  |                                                                                                                                                   |       |       |      |      |      |                  |                  |            |
| Previous President's Budget (FY1996)                                                     |  |  |  | FY95                                                                                                                                              | FY96  |       |      |      |      |                  | FY97             |            |
| Appropriated Value                                                                       |  |  |  | 1.553                                                                                                                                             | .412  | 1.553 |      | .412 |      |                  | .387             |            |
| Adjustments to Appropriated Value                                                        |  |  |  | 0                                                                                                                                                 | -.012 |       |      |      |      |                  |                  |            |
| Adjustments to Budget Year Since FY96 President's Budget                                 |  |  |  |                                                                                                                                                   |       |       |      |      |      |                  |                  |            |
| Current Budget Submit/President's Budget                                                 |  |  |  | 1.553                                                                                                                                             | .400  |       |      |      |      |                  | -.008            | .379       |
| Change Summary Explanation: N/A                                                          |  |  |  |                                                                                                                                                   |       |       |      |      |      |                  |                  |            |
| FY96 reduction due to Congressional adjustment to Defense-wide investment appropriation. |  |  |  |                                                                                                                                                   |       |       |      |      |      |                  |                  |            |
| FY97 reduction due to revised inflation rates.                                           |  |  |  |                                                                                                                                                   |       |       |      |      |      |                  |                  |            |
| C. Other Program Funding Summary:                                                        |  |  |  |                                                                                                                                                   |       |       |      |      |      |                  |                  |            |
| Related RDT&E: Program Element #0208045K, C3 Interoperability.                           |  |  |  |                                                                                                                                                   |       |       |      |      |      |                  |                  |            |
| D. Schedule Profile:                                                                     |  |  |  |                                                                                                                                                   |       |       |      |      |      |                  |                  |            |
| FY1995 1st quarter:                                                                      |  |  |  | Fielding of Final Joint Operational Support Systems (JOSS) Configuration and Integration into PACOM Theater Command Control System (TCCS) Network |       |       |      |      |      |                  |                  |            |
| 2nd quarter:                                                                             |  |  |  | Portable Tactical Automated Dependent Surveillance Systems (PTADSS) Integration with JOSS                                                         |       |       |      |      |      |                  |                  |            |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)     |                                                                                     |  |       |      |                                                                                        |      |      |      |      | DATE: March 1996 |
|---------------------------------------------------------|-------------------------------------------------------------------------------------|--|-------|------|----------------------------------------------------------------------------------------|------|------|------|------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07 |                                                                                     |  |       |      | R-1 ITEM NOMENCLATURE<br>National Military Command System (NMCS)-Wide Support/0302016K |      |      |      |      |                  |
| COST (in millions)                                      |                                                                                     |  | FY95  | FY96 | FY97                                                                                   | FY98 | FY99 | FY00 | FY01 | Total Cost       |
| NMCS Subsystem Engineering /T50                         |                                                                                     |  | 1.553 | .400 | .379                                                                                   | .428 | .465 | .552 | .643 | Contg            |
| <b>D. Schedule Profile (Continued)</b>                  |                                                                                     |  |       |      |                                                                                        |      |      |      |      |                  |
| <u>FY1995</u> 3rd quarter:                              | MARFORPAC PTADSS Command Post Exercise (CPX) Participation                          |  |       |      |                                                                                        |      |      |      |      |                  |
|                                                         | JWID-95 Demonstration/Scenario Development                                          |  |       |      |                                                                                        |      |      |      |      |                  |
| 4th quarter:                                            | Award of new SETA contract                                                          |  |       |      |                                                                                        |      |      |      |      |                  |
|                                                         | PTADSS Fielded at MARFORPAC                                                         |  |       |      |                                                                                        |      |      |      |      |                  |
| <u>FY1996</u> 2nd quarter:                              | Establish network engineering infrastructure and network management of JWID network |  |       |      |                                                                                        |      |      |      |      |                  |
| 3rd quarter:                                            | JTF workstation Prototype Exercise Participation                                    |  |       |      |                                                                                        |      |      |      |      |                  |
|                                                         | JWID-96 Demonstration/Scenario Development                                          |  |       |      |                                                                                        |      |      |      |      |                  |
|                                                         | Federal Agencies Integration of JTF Prototype                                       |  |       |      |                                                                                        |      |      |      |      |                  |
|                                                         | Exercise first option year of SETA contract                                         |  |       |      |                                                                                        |      |      |      |      |                  |
| 4th quarter:                                            | JTF Workstation Prototype Enhancements                                              |  |       |      |                                                                                        |      |      |      |      |                  |
|                                                         | Establish network engineering infrastructure and network management of JWID network |  |       |      |                                                                                        |      |      |      |      |                  |
| <u>FY1997</u> 3rd quarter:                              | Enhancement to JTF Prototype for Federal Agencies                                   |  |       |      |                                                                                        |      |      |      |      |                  |
|                                                         | JWID-97 Demonstration/Scenario Development                                          |  |       |      |                                                                                        |      |      |      |      |                  |
|                                                         | Exercise of second option year of SETA contract                                     |  |       |      |                                                                                        |      |      |      |      |                  |
| 4th quarter:                                            | Technology assessment for JTF Operations                                            |  |       |      |                                                                                        |      |      |      |      |                  |
|                                                         | Establish network engineering infrastructure and network management of JWID network |  |       |      |                                                                                        |      |      |      |      |                  |

Page 5 of 17

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                                                     |                                                  |                                |                               |                          |                                                                                                                              |                |                |                |                       | DATE: March 1996 |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                |                                                  |                                |                               |                          | R-1 ITEM NOMENCLATURE<br>National Military Command System (NMCS) - Wide Support 0302016K/NMCS<br>Subsystem Engineering (T50) |                |                |                |                       |                  |
| A. <u>Project Cost Breakdown (\$000)</u>                                                               |                                                  |                                |                               |                          |                                                                                                                              |                |                |                |                       |                  |
| Project Cost Categories                                                                                |                                                  |                                |                               |                          |                                                                                                                              |                |                |                |                       |                  |
| a. Systems Engineering                                                                                 |                                                  |                                |                               |                          |                                                                                                                              |                |                |                |                       |                  |
| Total                                                                                                  |                                                  |                                |                               |                          |                                                                                                                              |                |                |                |                       |                  |
| B. <u>Budget Acquisition History and Planning Information:</u><br>Support and Management Organizations |                                                  |                                |                               |                          |                                                                                                                              |                |                |                |                       |                  |
| Contractor or<br>Government<br>Performing<br>Activity                                                  | Contract<br>Method/Type<br>or Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Prior to<br>FY95                                                                                                             | Budget<br>FY95 | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete | Total<br>Program |
| Multiple<br>Performing<br>Activities                                                                   | C/SS<br>CPAF<br>CPFF<br>WR/PO                    |                                |                               |                          |                                                                                                                              | 1,553          | 400            | 379            | Contg                 | Contg            |
| Government Furnished Property: N/A                                                                     |                                                  |                                |                               |                          |                                                                                                                              |                |                |                |                       |                  |
| Total Project                                                                                          |                                                  |                                |                               |                          |                                                                                                                              |                |                |                |                       |                  |

Page 6 of 17

Page 6 of 17

R-1 Shopping List  
UNCLASSIFIED

UNCLASSIFIED

| <b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |             |             |      |                                                                                               |      |      |                  |            | DATE: March 1996 |             |             |             |                                       |      |   |   |                   |      |  |  |                                   |       |  |  |                                          |      |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|------|-----------------------------------------------------------------------------------------------|------|------|------------------|------------|------------------|-------------|-------------|-------------|---------------------------------------|------|---|---|-------------------|------|--|--|-----------------------------------|-------|--|--|------------------------------------------|------|--|--|
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |             |             |      | <b>R-1 ITEM NOMENCLATURE</b><br>National Military Command System (NMCS)-Wide Support/0302016K |      |      |                  |            |                  |             |             |             |                                       |      |   |   |                   |      |  |  |                                   |       |  |  |                                          |      |  |  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FY95        | FY96        | FY97        | FY98 | FY99                                                                                          | FY00 | FY01 | Cost of Complete | Total Cost |                  |             |             |             |                                       |      |   |   |                   |      |  |  |                                   |       |  |  |                                          |      |  |  |
| Contingency Planning for the President (CPP)/T51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .270        | 0*          | 0           | 0    | 0                                                                                             | 0    | 0    | Contig           | Contig     |                  |             |             |             |                                       |      |   |   |                   |      |  |  |                                   |       |  |  |                                          |      |  |  |
| <p><b>A. Mission Description and Budget Item Justification:</b><br/> All aspects of this project are classified and require special access. Therefore, information on this project is not contained in this document but can be obtained upon request.</p> <p>* In FY96, this project transfers to Program Element 0303131K.</p> <p><b>B. Program Change Summary:</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;"></td> <td style="width: 10%; text-align: right;"><u>FY95</u></td> <td style="width: 10%; text-align: right;"><u>FY96</u></td> <td style="width: 10%; text-align: right;"><u>FY97</u></td> </tr> <tr> <td>Previous President's Budget (FY 1996)</td> <td style="text-align: right;">.357</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> </tr> <tr> <td>Appropriate Value</td> <td style="text-align: right;">.357</td> <td></td> <td></td> </tr> <tr> <td>Adjustments to Appropriated Value</td> <td style="text-align: right;">-.087</td> <td></td> <td></td> </tr> <tr> <td>Current Budget Submit/President's Budget</td> <td style="text-align: right;">.270</td> <td></td> <td></td> </tr> </table> <p style="margin-left: 40px;">Transfers to P.E. 0303131K</p> <p><b>Change Summary Explanation:</b><br/> FY95 adjustments due to below threshold reprogramming.</p> <p><b>C. Other Program Funding Summary:</b><br/> Related RDT&amp;E: PE 0303131K Minimum Essential Emergency Communications Network (MEECN) in FY 96-01.</p> <p><b>D. Schedule Profile:</b><br/> Information can be provided upon request.</p> |             |             |             |      |                                                                                               |      |      |                  |            |                  | <u>FY95</u> | <u>FY96</u> | <u>FY97</u> | Previous President's Budget (FY 1996) | .357 | 0 | 0 | Appropriate Value | .357 |  |  | Adjustments to Appropriated Value | -.087 |  |  | Current Budget Submit/President's Budget | .270 |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>FY95</u> | <u>FY96</u> | <u>FY97</u> |      |                                                                                               |      |      |                  |            |                  |             |             |             |                                       |      |   |   |                   |      |  |  |                                   |       |  |  |                                          |      |  |  |
| Previous President's Budget (FY 1996)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | .357        | 0           | 0           |      |                                                                                               |      |      |                  |            |                  |             |             |             |                                       |      |   |   |                   |      |  |  |                                   |       |  |  |                                          |      |  |  |
| Appropriate Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | .357        |             |             |      |                                                                                               |      |      |                  |            |                  |             |             |             |                                       |      |   |   |                   |      |  |  |                                   |       |  |  |                                          |      |  |  |
| Adjustments to Appropriated Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -.087       |             |             |      |                                                                                               |      |      |                  |            |                  |             |             |             |                                       |      |   |   |                   |      |  |  |                                   |       |  |  |                                          |      |  |  |
| Current Budget Submit/President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .270        |             |             |      |                                                                                               |      |      |                  |            |                  |             |             |             |                                       |      |   |   |                   |      |  |  |                                   |       |  |  |                                          |      |  |  |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                                                     |                                                  |                                |                               |                          |                                                                                                                                             |                |                |                |                       | DATE: March 1996          |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------------|---------------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                |                                                  |                                |                               |                          | R-1 ITEM NOMENCLATURE<br>National Military Command System (NMCS)-Wide<br>Support/0302016K/Contingency Planning for the President (CPP)(T51) |                |                |                |                       |                           |
| A. <u>Project Cost Breakdown (\$000)</u>                                                               |                                                  |                                |                               |                          |                                                                                                                                             |                |                |                |                       |                           |
| Project Cost Categories                                                                                |                                                  |                                |                               |                          | <u>FY95</u>                                                                                                                                 | <u>FY96</u>    | <u>FY97</u>    |                |                       |                           |
| a. Systems Engineering                                                                                 |                                                  |                                |                               |                          | 270                                                                                                                                         | 0              | 0              |                |                       |                           |
| Total                                                                                                  |                                                  |                                |                               |                          | 270                                                                                                                                         | 0              | 0              |                |                       |                           |
| B. <u>Budget Acquisition History and Planning Information:</u><br>Support and Management Organizations |                                                  |                                |                               |                          |                                                                                                                                             |                |                |                |                       |                           |
| Contractor or<br>Government<br>Performing<br>Activity                                                  | Contract<br>Method/Type<br>or Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Prior to<br>FY95                                                                                                                            | Budget<br>FY95 | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete | Total<br>Program<br>Contg |
| Multiple<br>Performing<br>Activities                                                                   |                                                  |                                |                               |                          |                                                                                                                                             | 270            | 0              | 0              | Contg                 |                           |
| Government Furnished Property: N/A                                                                     |                                                  |                                |                               |                          |                                                                                                                                             |                |                |                |                       |                           |
| Total Project                                                                                          |                                                  |                                |                               |                          |                                                                                                                                             | 270            | 0              | 0              |                       |                           |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |                                                               |       |       |       |       |       |       |                  | DATE: March 1996 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    | R-1 ITEM NOMENCLATURE                                         |       |       |       |       |       |       |                  |                  |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    | National Military Command System (NMCS)-Wide Support/0302016K |       |       |       |       |       |       |                  |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | COST (in millions) | FY95                                                          | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| NMCS Command Center Engineering/S32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | 1.314                                                         | 1.221 | 1.268 | 1.315 | 1.337 | 1.359 | 1.378 | Contg            | Contg            |
| <p>A. Mission Description and Budget Item Justification:</p> <p>This project provides overall system engineering and technical integration activities for a broad spectrum of command center systems which provide the underpinning capabilities for the crisis/war decision-making processes of the National Command Authorities, the National Military Command System, and the Unified and Specified Commanders-in-Chief. Technical activities include requirements analysis, systems definition and engineering, and rapid prototyping. The project emphasizes the utilization of commercial off-the-shelf and emerging technologies for application in NMCS command centers in information processing and overall facility design to provide common solutions to theater, national, and world-wide crisis situations affecting the Department of Defense and the Executive Office of the President.</p> <p>FY 1995 Accomplishments:</p> <ul style="list-style-type: none"> <li>o Provide system engineering support for National Airborne Operations Center (NAOC) new Mod Block development and integration (Sep 95; \$103K).</li> <li>o Provide system engineering support for diverse communications and information system requirements of the NAOC aircraft (Ongoing; \$97K).</li> <li>o Provide systems engineering support for diverse communications and information system requirements of the WWMCCS Airborne Resources (WABNRES) including CINC, TACAMO, Presidential, and other executive aircraft (Ongoing; \$451K).</li> <li>o Provide system engineering support to implement a replacement Emergency Action Message (EAM) dissemination system for NMCS which is integrated into the Defense Message System (DMS) program and interfaced to MILSTAR (Sep 95; \$194K).</li> <li>o Develop engineering plans for National Military Command Center (NMCC) and NMCC-Site R to provide a seamless transition into the new NMCC (Sep 95; \$190K).</li> <li>o Provide systems engineering and systems integration to transition the C2 system from the old NMCC to the new NMCC as part of the overall command centers renovation and relocation (Sep 95; \$279K).</li> </ul> <p>\$1.314M Total</p> |                    |                                                               |       |       |       |       |       |       |                  |                  |

Page 9 of 17

UNCLASSIFIED

31

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                  |  |                                                               |  |  |  |  |  |  |  | DATE: March 1996 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------|--|--|--|--|--|--|--|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                        |  | R-1 ITEM NOMENCLATURE                                         |  |  |  |  |  |  |  |                  |
| RDT&E, Defense Wide/07                                                                                                                                                                               |  | National Military Command System (NMCS)-Wide Support/0302016K |  |  |  |  |  |  |  |                  |
| COST (in millions)                                                                                                                                                                                   |  |                                                               |  |  |  |  |  |  |  |                  |
|                                                                                                                                                                                                      |  |                                                               |  |  |  |  |  |  |  |                  |
| NMCS Command Center Engineering/S32                                                                                                                                                                  |  |                                                               |  |  |  |  |  |  |  |                  |
|                                                                                                                                                                                                      |  |                                                               |  |  |  |  |  |  |  |                  |
| FY 1996 Plans:                                                                                                                                                                                       |  |                                                               |  |  |  |  |  |  |  |                  |
| o Technical analysis for implementation of improvements of NEACP and SAM aircraft (Sep 96; \$155K).                                                                                                  |  |                                                               |  |  |  |  |  |  |  |                  |
| o Engineering for implementation of an Airborne Communications Bus on the NEACP to interconnect mission equipment (Jun 96;\$152K).                                                                   |  |                                                               |  |  |  |  |  |  |  |                  |
| o Engineering for implementation of Automated Workstations on the NEACP to provide communications operator support, equipment control, and patch & test (Sep 96; \$100K).                            |  |                                                               |  |  |  |  |  |  |  |                  |
| o Engineering for implementation of new red/black voice switching systems on the NEACP (Jun 96; \$122K).                                                                                             |  |                                                               |  |  |  |  |  |  |  |                  |
| o Engineering for qualitative operational test and evaluation of major NEACP improvements (Sep 96; \$65K).                                                                                           |  |                                                               |  |  |  |  |  |  |  |                  |
| o Providing technical analysis of NMCC and NMCC Site R operational requirements and developments of engineering alternatives to improve strategic and crisis capabilities (Sep 96; \$140K).          |  |                                                               |  |  |  |  |  |  |  |                  |
| o Providing technical support for operational evaluation of FOC Special Technical Operations communications (May 96; \$132K).                                                                        |  |                                                               |  |  |  |  |  |  |  |                  |
| o Engineering for implementation of new consolidated red/black voice switching systems for NMCC and NMCC Site R (Sep 96; \$180K).                                                                    |  |                                                               |  |  |  |  |  |  |  |                  |
| o Integration engineering and transition planning for critical NMCC C3 systems in response to the new NMCC Pentagon renovation for design of facilities and communications systems (Sep 96; \$175K). |  |                                                               |  |  |  |  |  |  |  |                  |
| \$1.221M Total                                                                                                                                                                                       |  |                                                               |  |  |  |  |  |  |  |                  |
| FY 1997 Plans:                                                                                                                                                                                       |  |                                                               |  |  |  |  |  |  |  |                  |
| o Technical analysis for implementation of improvements to NEACP and SAM aircraft (Sep 97; \$100K).                                                                                                  |  |                                                               |  |  |  |  |  |  |  |                  |
| o Engineering support for qualitative operational test and evaluation of major NEACP improvements (Sep 97; \$75K).                                                                                   |  |                                                               |  |  |  |  |  |  |  |                  |
| o Trouble-shooting and support of current NEACP operations (Sep 97; \$150K).                                                                                                                         |  |                                                               |  |  |  |  |  |  |  |                  |
| o Development of overall and individual systems and subsystem engineering, transition plans and test plans for moving the NMCC to another location in the Pentagon (May 97; \$666K).                 |  |                                                               |  |  |  |  |  |  |  |                  |
| o Engineering evaluation of new emergency message and TW/AA systems for the NMCC and NMCC Site R (Sep 97; \$180K).                                                                                   |  |                                                               |  |  |  |  |  |  |  |                  |
| o Integration engineering and transitioning secure NMCC systems to the DMS (Feb 97; \$97K).                                                                                                          |  |                                                               |  |  |  |  |  |  |  |                  |
| \$1.268M Total                                                                                                                                                                                       |  |                                                               |  |  |  |  |  |  |  |                  |
| Work Performed By: MITRE, VA, Electrospace Systems, Inc., Arlington, VA; Booz-Allen & Hamilton Inc., Arlington, VA.                                                                                  |  |                                                               |  |  |  |  |  |  |  |                  |

Page 10 of 17

UNCLASSIFIED

32

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                         |  |                                                                                        |       |       |       |       |       |       |                          | DATE: March 1996 |
|---------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                     |  | R-1 ITEM NOMENCLATURE<br>National Military Command System (NMCS)-Wide Support/0302016K |       |       |       |       |       |       |                          |                  |
| COST (in millions)                                                                          |  | FY95                                                                                   | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete         | Total Cost       |
| NMCS Command Center Engineering/S32                                                         |  | 1.314                                                                                  | 1.221 | 1.268 | 1.315 | 1.337 | 1.359 | 1.378 | Contg                    | Contg            |
| <u>B. Program Change Summary:</u>                                                           |  |                                                                                        |       |       |       |       |       |       |                          |                  |
| Previous President's Budget (FY1996)                                                        |  |                                                                                        | FY95  | FY96  | FY97  |       |       |       |                          |                  |
| Appropriated Value                                                                          |  |                                                                                        | 1.314 | 1.336 | 1.344 |       |       |       |                          |                  |
| Adjustments to Appropriated Value                                                           |  |                                                                                        | 1.314 | 1.336 | 1.344 |       |       |       |                          |                  |
| Adjustments to Budget Year Since FY96 President's Budget                                    |  |                                                                                        | 0     | -.115 |       |       |       |       |                          |                  |
| Current Budget Submit/President's Budget                                                    |  |                                                                                        | 1.314 | 1.221 | 1.268 |       |       |       |                          |                  |
| <u>Change Summary Explanation: N/A</u>                                                      |  |                                                                                        |       |       |       |       |       |       |                          |                  |
| FY96 reductions due to Congressional adjustments to Defense-wide investment appropriations. |  |                                                                                        |       |       |       |       |       |       |                          |                  |
| FY97 reduction due to revised inflation rates.                                              |  |                                                                                        |       |       |       |       |       |       |                          |                  |
| <u>C. Other Program Funding Summary:</u>                                                    |  |                                                                                        |       |       |       |       |       |       |                          |                  |
| O&M 0302019K                                                                                |  | FY95                                                                                   | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Budget to Complete Contg | Total Cost Contg |
|                                                                                             |  | .703                                                                                   | .652  | .427  | .276  | .224  | .125  | .013  |                          |                  |

Page 11 of 17

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) |                    |                                                                                              |       |       |       |       |       |       |                  | DATE: March 1996 |
|-----------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                       |                    | R-1 ITEM NOMENCLATURE                                                                        |       |       |       |       |       |       |                  |                  |
| RDT&E, Defense Wide/07                              |                    | National Military Command System (NMCS)-Wide Support/0302016K                                |       |       |       |       |       |       |                  |                  |
|                                                     | COST (in millions) | FY95                                                                                         | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| NMCS Command Center Engineering/S32                 |                    | 1.314                                                                                        | 1.221 | 1.268 | 1.315 | 1.337 | 1.359 | 1.378 | Contg            | Contg            |
| <b>D. Schedule Profile:</b>                         |                    |                                                                                              |       |       |       |       |       |       |                  |                  |
| <u>FY1995</u>                                       | 2nd quarter:       | Develop new 5-year contract for NMCS Engineering Test & Evaluation.                          |       |       |       |       |       |       |                  |                  |
|                                                     | 4th quarter:       | Develop new 5-year contract for Command Center System Engineering.                           |       |       |       |       |       |       |                  |                  |
|                                                     | 4th quarter:       | Prepare initial overall system transition engineering plan for new NMCC.                     |       |       |       |       |       |       |                  |                  |
| <u>FY1996</u>                                       | 2nd quarter:       | Develop Option Year 1 of contract for NMCS Engineering T&E.                                  |       |       |       |       |       |       |                  |                  |
|                                                     | 4th quarter:       | Develop Option Year 1 of contract for Command Center System Engineering.                     |       |       |       |       |       |       |                  |                  |
|                                                     | 4th quarter:       | Provide system engineering for implementation of new NEACP red/black voice switching system. |       |       |       |       |       |       |                  |                  |
| <u>FY1997</u>                                       | 1st quarter:       | Provide User Test & Evaluation criteria for NEACP Mod Block V.                               |       |       |       |       |       |       |                  |                  |
|                                                     | 2nd quarter:       | Develop Option Year 2 of contract for NMCS Engineering T&E.                                  |       |       |       |       |       |       |                  |                  |
|                                                     | 4th quarter:       | Develop Option Year 2 of contract for Command Center System Engineering.                     |       |       |       |       |       |       |                  |                  |
|                                                     | 4th quarter:       | Complete Engineering for systems transition of new NMCC.                                     |       |       |       |       |       |       |                  |                  |

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                    |                                                  |                                |                               |                          |                                                                                                                                  |                |                |                |                       | DATE: March 1996 |       |
|-----------------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------------|------------------|-------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07               |                                                  |                                |                               |                          | R-1 ITEM NOMENCLATURE<br>National Military Command System (NMCS)-Wide Support/0302016K/<br>NMCS COMMAND CENTER ENGINEERING (S32) |                |                |                |                       |                  |       |
| A. <u>Project Cost Breakdown(\$000)</u>                               |                                                  |                                |                               |                          |                                                                                                                                  |                |                |                |                       |                  |       |
| Project Cost Categories                                               |                                                  |                                |                               |                          |                                                                                                                                  |                |                |                |                       |                  |       |
| a. System Engineering                                                 |                                                  |                                |                               |                          | FY95<br>1,314                                                                                                                    | FY96<br>1,221  | FY97<br>1,268  |                |                       |                  |       |
| B. <u>Budget Acquisition History and Planning Information (\$000)</u> |                                                  |                                |                               |                          |                                                                                                                                  |                |                |                |                       |                  |       |
| Support and Management Organizations:                                 |                                                  |                                |                               |                          |                                                                                                                                  |                |                |                |                       |                  |       |
| Contractor or<br>Government<br>Performing<br>Activity                 | Contract<br>Method/Type<br>or Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Prior to<br>FY95                                                                                                                 | Budget<br>FY95 | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete | Total<br>Program | Contg |
| Multiple<br>Performing<br>Activities                                  |                                                  |                                |                               |                          |                                                                                                                                  |                |                |                |                       |                  |       |
| Government Furnished Property: N/A                                    |                                                  |                                |                               |                          |                                                                                                                                  |                |                |                |                       |                  |       |
| TOTAL PROJECT                                                         |                                                  |                                |                               |                          |                                                                                                                                  | 1,314          | 1,221          | 1,268          |                       |                  |       |

Page 13 of 17

Page 13 of 17

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                               |      |      |      |      |      |      |                  | DATE: March 1996 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------|------|------|------|------|------|------|------------------|------------------|--|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | R-1 ITEM NOMENCLATURE                                         |      |      |      |      |      |      |                  |                  |  |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | National Military Command System (NMCS)-Wide Support/0302016K |      |      |      |      |      |      |                  |                  |  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | FY95                                                          | FY96 | FY97 | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost       |  |
| Support to Defense Support Activity/Z60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | .399                                                          | .374 | .400 | .415 | .432 | .445 | .460 | Contg            | Contg            |  |
| <p><b>A. Mission Description and Budget Item Justification:</b><br/>           This project provides direct support to the Defense Support Activity (DSA) as prescribed in DoD Directive 5100.81. This project is unique in terms of the policy decisions supported and that the customers supported are actual DoD policy decision makers. Z60 supports basic research and the acquisition and enhancement of software that aids in the illumination of counter-proliferation issues. Research is also provided in a number of areas of special interest to the OSD's theater tactical ballistic missile and cruise missile defense community and Precision Guided Munition (PGM) communities, as well as the defense planning community, and the acquisition and employment policy making communities. It also support systems engineering, development of state-of-the-art technologies and the translation of these technologies into leading edge analytical models. Acquisition of support is provided by competitively awarded contracts.</p>                                                                                                                                                                                                           |  |                                                               |      |      |      |      |      |      |                  |                  |  |
| <p><b>FY1995 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>o Examined the Theater Missile Defense (TMD) Architecture and proposed optimal configuration of weapon systems and integral Battle Management Command, Control, Communications and Computer Systems (Sep 95; \$70K).</li> <li>o Provided analysis for Cruise Missile Defense (CMD) Plan to assess current and projected threat and appropriate defensive capabilities to effectively counter the threat (Sep 95; \$30K).</li> <li>o Developed a mathematical TMD munitions inventory analysis model and Radar Cueing effectiveness model to improve sensor-to-shooter effectiveness in Theater Missile Defense programs (Sep 95; \$99K).</li> <li>o Provided ASD(ISP) a view of round shock effects to critically important offset axis deeply buried targets; used in evaluating effectiveness of current and projected weapon systems to penetrate strategic military sites (Sep 95; \$100K).</li> <li>o Evaluated the effects of chemical and biological munitions on aircrews and the impact on aircraft generation rates; influenced policies on military response to aggressor actions involving these types of munitions (Sep95; \$100K).</li> </ul> <p>\$ .399M Total</p> |  |                                                               |      |      |      |      |      |      |                  |                  |  |
| <p><b>FY1996 Plans:</b></p> <ul style="list-style-type: none"> <li>o Continue to develop analytical tools used to support assessment of joint warfighting operational plans' compliance with the Secretary's guidance and to rapidly illuminate policy issues. This development will focus on illustrating PGM effects and optimal deployment of theater missiles defenses (Sep 96; \$96K).</li> <li>o Continue to acquire and enhance leading edge analytical tools to rapidly illuminate policy issues in the following areas:               <ul style="list-style-type: none"> <li>1) the probability of structural damage to deep underground targets, and</li> <li>2) the effects of chemical and biological munitions on military operations (Sep 96; \$90K).</li> </ul> </li> <li>o Analyze the potential contributions of Navy Upper Tier defensive systems (Sep 96; \$96K).</li> <li>o Develop analytical tools for the study of both the cruise missile defense and ballistic missile defensive systems, technologies, logistics, and architectures (Sep 96; \$55K).</li> <li>o Provide research support to the USD(A) as the cruise missile and ballistic missile threats evolve (Sep 96; \$37K).</li> </ul> <p>\$ .374M Total</p>                  |  |                                                               |      |      |      |      |      |      |                  |                  |  |

Page 14 of 17

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |       |                                                               |      |      |      |      |      | DATE: March 1996 |                  |            |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|---------------------------------------------------------------|------|------|------|------|------|------------------|------------------|------------|--|------|------|------|---------------------------------------|------|------|------|--------------------|------|------|--|-----------------------------------|---|-------|--|----------------------------------------------------------|--|--|-------|------------------------------------------|------|------|------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |       |       | R-1 ITEM NOMENCLATURE                                         |      |      |      |      |      |                  |                  |            |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |       | National Military Command System (NMCS)-Wide Support/0302016K |      |      |      |      |      |                  |                  |            |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |       | FY95                                                          | FY96 | FY97 | FY98 | FY99 | FY00 | FY01             | Cost of Complete | Total Cost |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |
| Support to Defense Support Activity/Z60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |       | .399                                                          | .374 | .400 | .415 | .432 | .445 | .460             | Contg            | Contg      |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |
| <p><u>FY1997 Plans:</u></p> <ul style="list-style-type: none"> <li>o Continue to develop analytical tools used to support assessments of joint warfighting operational plans' compliance with the Secretary's guidance and to rapidly illuminate policy issues. This development will focus on illustrating PGM effects and optimal deployment of theater missile defenses (Sep 97; \$100K).</li> <li>o Continue to acquire and enhance leading edge analytical tools to rapidly illuminate policy issues in the following areas:               <ul style="list-style-type: none"> <li>1) the probability of structural damage to deep underground targets, and</li> <li>2) the effects of chemical and biological munitions on military operations (Sep 97; \$100K).</li> </ul> </li> <li>o Examine the effectiveness of current and planned defensive systems against emerging threats (Sep 97; \$100K).</li> <li>o Develop analytical tools for the study of both the cruise missile defense and ballistic missile defensive systems, technologies, logistics, and architectures (Sep 97; \$50K)</li> <li>o Provide research support to the USD(A) as the cruise missile and ballistic missile threats evolve (Sep 97; \$50K)</li> </ul> <p>\$400M Total</p> |      |       |       |                                                               |      |      |      |      |      |                  |                  |            |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |
| <p><u>B. Program Change Summary:</u></p> <table border="0"> <thead> <tr> <th></th> <th>FY95</th> <th>FY96</th> <th>FY97</th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget (FY 1996)</td> <td>.399</td> <td>.405</td> <td>.413</td> </tr> <tr> <td>Appropriated Value</td> <td>.399</td> <td>.405</td> <td></td> </tr> <tr> <td>Adjustments to Appropriated Value</td> <td>0</td> <td>-.031</td> <td></td> </tr> <tr> <td>Adjustments to Budget Year since FY96 President's Budget</td> <td></td> <td></td> <td>-.013</td> </tr> <tr> <td>Current Budget Submit/President's Budget</td> <td>.399</td> <td>.374</td> <td>.400</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |       |                                                               |      |      |      |      |      |                  |                  |            |  | FY95 | FY96 | FY97 | Previous President's Budget (FY 1996) | .399 | .405 | .413 | Appropriated Value | .399 | .405 |  | Adjustments to Appropriated Value | 0 | -.031 |  | Adjustments to Budget Year since FY96 President's Budget |  |  | -.013 | Current Budget Submit/President's Budget | .399 | .374 | .400 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FY95 | FY96  | FY97  |                                                               |      |      |      |      |      |                  |                  |            |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |
| Previous President's Budget (FY 1996)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .399 | .405  | .413  |                                                               |      |      |      |      |      |                  |                  |            |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |
| Appropriated Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | .399 | .405  |       |                                                               |      |      |      |      |      |                  |                  |            |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |
| Adjustments to Appropriated Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0    | -.031 |       |                                                               |      |      |      |      |      |                  |                  |            |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |
| Adjustments to Budget Year since FY96 President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |       | -.013 |                                                               |      |      |      |      |      |                  |                  |            |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |
| Current Budget Submit/President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | .399 | .374  | .400  |                                                               |      |      |      |      |      |                  |                  |            |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |
| <p><u>Change Summary Explanation:</u></p> <p>FY96 reductions due to Congressional adjustments to Defense-wide investment appropriations.</p> <p>FY97 reductions due to revised inflation rates.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |       |                                                               |      |      |      |      |      |                  |                  |            |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |
| <p><u>C. Other Program Funding Summary:</u></p> <p>Not applicable.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |       |                                                               |      |      |      |      |      |                  |                  |            |  |      |      |      |                                       |      |      |      |                    |      |      |  |                                   |   |       |  |                                                          |  |  |       |                                          |      |      |      |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                    |      |      |      |      |                                                                                        |      |      |      |                  | DATE: March 1996 |  |      |      |      |   |   |   |   |  |   |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|----------------------------------------------------------------------------------------|------|------|------|------------------|------------------|--|------|------|------|---|---|---|---|--|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                |      |      |      |      | R-1 ITEM NOMENCLATURE<br>National Military Command System (NMCS)-Wide Support/0302016K |      |      |      |                  |                  |  |      |      |      |   |   |   |   |  |   |   |   |
| COST (in millions)                                                                                                                                                                                                                                                                                                     |      | FY95 | FY96 | FY97 | FY98                                                                                   | FY99 | FY00 | FY01 | Cost of Complete | Total Cost       |  |      |      |      |   |   |   |   |  |   |   |   |
| Support to Defense Support Activity/Z60                                                                                                                                                                                                                                                                                |      | .399 | .374 | .400 | .415                                                                                   | .432 | .445 | .460 | Contg            | Contg            |  |      |      |      |   |   |   |   |  |   |   |   |
| <p>D. <u>Schedule Profile:</u></p> <p>Fiscal Year actual and planned events by quarter</p> <table> <tr> <td></td> <td>FY95</td> <td>FY96</td> <td>FY97</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> </tr> </table> <p>Annual Contract Renewal</p> |      |      |      |      |                                                                                        |      |      |      |                  |                  |  | FY95 | FY96 | FY97 | 1 | 2 | 3 | 4 |  | X | X | X |
|                                                                                                                                                                                                                                                                                                                        | FY95 | FY96 | FY97 |      |                                                                                        |      |      |      |                  |                  |  |      |      |      |   |   |   |   |  |   |   |   |
| 1                                                                                                                                                                                                                                                                                                                      | 2    | 3    | 4    |      |                                                                                        |      |      |      |                  |                  |  |      |      |      |   |   |   |   |  |   |   |   |
|                                                                                                                                                                                                                                                                                                                        | X    | X    | X    |      |                                                                                        |      |      |      |                  |                  |  |      |      |      |   |   |   |   |  |   |   |   |

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                    |                                                                                                                                      | DATE: March 1996               |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07               | R-1 ITEM NOMENCLATURE<br>National Military Command System (NMCS)-Wide Support/0302016K/<br>SUPPORT TO DEFENSE SUPPORT ACTIVITY (Z60) |                                |
| A. <u>Project Cost Breakdown(\$000)</u>                               |                                                                                                                                      |                                |
| Project Cost Categories                                               |                                                                                                                                      |                                |
| a. Basic Research and Software Analysis                               |                                                                                                                                      |                                |
|                                                                       | <u>FY95</u>                                                                                                                          | <u>FY96</u> <u>FY97</u>        |
|                                                                       | 399                                                                                                                                  | 374 400                        |
| Total                                                                 | 399                                                                                                                                  | 374 400                        |
| B. <u>Budget Acquisition History and Planning Information (\$000)</u> |                                                                                                                                      |                                |
| Support and Management Organizations:                                 |                                                                                                                                      |                                |
| Contractor or<br>Government<br>Performing<br>Activity                 | Contract<br>Method/Type<br>or Funding<br>Vehicle                                                                                     | Award or<br>Obligation<br>Date |
|                                                                       | Performing<br>Activity<br>EAC                                                                                                        | Project<br>Office<br>EAC       |
|                                                                       | Prior to<br>FY95                                                                                                                     | Budget<br>FY95                 |
|                                                                       | Budget<br>FY96                                                                                                                       | Budget<br>FY97                 |
|                                                                       | Budget To<br>Complete                                                                                                                | Total<br>Program               |
|                                                                       | Contig                                                                                                                               | Contig                         |
| Multiple<br>Performing<br>Activities                                  |                                                                                                                                      |                                |
| Government Furnished Property: N/A                                    |                                                                                                                                      |                                |
| Total Project                                                         | 399                                                                                                                                  | 374 400                        |

Page 17 of 17

R-1 Shopping List  
UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                 |       |       |       |       |       |       |                  | DATE: March 1996 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K |       |       |       |       |       |       |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | FY95                                                                                            | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| Total Program Element (PE) Cost                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 9.774                                                                                           | 3.745 | 4.594 | 4.740 | 4.999 | 5.435 | 5.897 | Contg            | Contg            |
| MILSATCOM & Defense Information Infrastructure Planning/E61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 6.871                                                                                           | 0     | 0     | 0     | 0     | 0     | 0     | Contg            | Contg            |
| Defense-Wide C3 Architecture & Planning/T62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | .166                                                                                            | 1.323 | 1.399 | 1.470 | 1.551 | 1.717 | 1.885 | Contg            | Contg            |
| Theater C3 Technical Integration/T63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | .686                                                                                            | .447  | 0*    | 0     | 0     | 0     | 0     | Contg            | Contg            |
| Technology Advancement/A19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | .491                                                                                            | .349  | .361  | .367  | .362  | .377  | .393  | Contg            | Contg            |
| Special Projects/T64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 1.210                                                                                           | 1.100 | 1.155 | 1.205 | 1.253 | 1.394 | 1.541 | Contg            | Contg            |
| CINCUSACOM Support/T65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | .350                                                                                            | .526  | 0*    | 0     | 0     | 0     | 0     | Contg            | Contg            |
| CINC/JTF C4 Integration/T66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 0                                                                                               | 0     | 1.679 | 1.698 | 1.833 | 1.947 | 2.078 | Contg            | Contg            |
| <p><b>A. Mission Description and Budget Item Justification:</b></p> <p>This program provides overall system analysis, architectural development, system engineering, integration, and developmental engineering responsibilities for joint and national level command, control, and communications (C3) systems to ensure the affected systems continue to be responsive in current, dynamically changing environments. These activities involve all MILSATCOM systems and other joint/national level systems which necessitate a high degree of multi-service/agency planning and development. Included are technical support and engineering integration to facilitate compliance with standards and technical architectures and to improve the command centers of the Unified and Specified (U&amp;S) Commands. Technical support in the above mentioned activities is provided to the Office of the Secretary of Defense (OSD), the Joint Staff (JS), Unified and Specified Commands (CINCs), the Military Departments and Defense Agencies. This program element develops planning guidance backed by analysis and data to support OSD, the JS, and the CINCs in prioritizing their Command and Control (C2) requirements and acquisitions. This program element is under Budget Activity 07 because it involves efforts supporting operational systems development.</p> |  |                                                                                                 |       |       |       |       |       |       |                  |                  |
| <p>*Beginning FY 1997, Projects T63 and T65 are combined into a new project, "CINC/JTF C4 Integration", T66.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                 |       |       |       |       |       |       |                  |                  |

Page 1 of 25

UNCLASSIFIED

40

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)     |       |      |                                                                                                 |      |      |      |      |                  |            | DATE: March 1996 |  |
|---------------------------------------------------------|-------|------|-------------------------------------------------------------------------------------------------|------|------|------|------|------------------|------------|------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07 |       |      | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K |      |      |      |      |                  |            |                  |  |
| COST (in millions)                                      | FY95  | FY96 | FY97                                                                                            | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost |                  |  |
| MILSATCOM & DII PLANNING/E61                            | 6.871 | 0*   | 0                                                                                               | 0    | 0    | 0    | 0    | Contg            | Contg      |                  |  |

A. Mission Description & Budget Item Justification:  
The rapid evolution of the global military environment is driving a major evolution of the DOD force structure and military operations requiring greater flexibility to meet the global warfighting requirements to rapidly project forces anywhere in the world. This project supports the planning and decision management to provide responsive communications and information services to support the evolving military missions. The efforts support integrated DOD satellite communications planning and investment strategy including all Military Satellite Communications (MILSATCOM) systems and commercial SATCOM capabilities, and the integrated SATCOM planning and decision management for the Defense Information Infrastructure (DII). The SATCOM investment strategy and acquisition roadmap provide guidance to the Department, Services, and Agencies for the acquisition and upgrade of MILSATCOM systems and the cost effective acquisition of commercial SATCOM services. The Joint C4I Communications Decision Support Center (JCDCS) is provided for the Joint Staff as the single DOD source of validated requirements. This work is essential to achieve the DISA goal of quality information services at an affordable cost through a deliberate decision management process. The DISA/ARPA Advanced Information Technology Services Joint Program Office (AITS-JPO) integrated advanced technology research and development efforts from ARPA and others, focus the flow of these technologies from R&D to widespread experimental uses, to leading edge utility and from leading edge utility to maximize the potential for migration into the DII and the National Information Infrastructure (NII). The DISA funding under this program allowed the AITS-JPO to leverage research and development funding and efforts.

\*This project is being moved to PE0303126K starting in FY96. Only FY95 work is described here. FY96 and beyond efforts are reported in the PE0303126K summary.

Page 2 of 25

UNCLASSIFIED

41

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |                                                                                                 |      |      |      |      |      |      | DATE: March 1996 |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K |      |      |      |      |      |      |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  | FY95                                                                                            | FY96 | FY97 | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost |
| MILSATCOM & DII PLANNING/E61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  | 6.871                                                                                           | 0    | 0    | 0    | 0    | 0    | 0    | Contg            | Contg      |
| <p>(U) FY 1995 Accomplishments:</p> <ul style="list-style-type: none"> <li>o Updated the JCDCS (development and operations) (Contg/\$1,410K).</li> <li>o Update SATCOM Investment Strategy and Roadmap, revise commercial SATCOM acquisition plan, and update SATCOM/DII Integration (Contg/\$1,118K).</li> <li>o Assess DII architectures and decision roadmaps and provide integrated acquisition decision management decision guidance and direction (Contg/\$1,318K).</li> <li>o Provide oversight and direction for DISA Special Projects (Contg/\$450K).</li> <li>o Monitor candidate information system technologies and capabilities which are still in research and development for potential integration into the AITS-JPO Pilot Service portfolio (Contg/\$100K).</li> <li>o Participate, initiate, expedite, or collaborate in Advanced Concepts Technology Demonstration in support of leading edge technology services (Contg/\$300K).</li> <li>o Evaluate available candidate AIT services versus user requirements and select promising technologies for pilot service (Contg/\$700K).</li> <li>o Develop and coordinate plans and strategies for migration and integration of selected Leading Edge Services into DISN (Contg/\$800K).</li> <li>o Integrate modeling and simulation and High Performance Computing Wide Area Networks (Contg/\$300K).</li> <li>o Provide oversight for introduction of standards based video teleconferencing into the Defense Simulation Internet (DSI) (Contg/\$50K).</li> <li>o Initiate engineering analysis to extend bandwidth on demand and end-to-end security services to deployed forces (Contg/\$50K).</li> <li>o Consolidate leading edge service and network management functions into an integrated Management Prototype (Contg/\$200K).</li> <li>o Collaborate with NSA on the development phase of key agile security device (Contg/\$75K).</li> </ul> <p>\$6.871M Total</p> <p>Acquisition strategy: SETA support contract (CPFF-LOE) was competitively awarded in FY94Q3 and consists of a base year and 4 option years.<br/>FFRDC support is procured sole source through the sponsoring Service (e.g., the Army, for MITRE).</p> |  |  |                                                                                                 |      |      |      |      |      |      |                  |            |

Page 3 of 25

UNCLASSIFIED

42

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |      |                                                                                                 |      |      |      |      |                  |            | DATE: March 1996 |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------------------------------------------------------------------------------------------------|------|------|------|------|------------------|------------|------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |      | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K |      |      |      |      |                  |            |                  |  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FY95  | FY96 | FY97                                                                                            | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost |                  |  |
| MILSATCOM & DII PLANNING/E61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6.871 | 0    | 0                                                                                               | 0    | 0    | 0    | 0    | Contg            | Contg      |                  |  |
| <p><u>B. Program Change Summary</u></p> <p>Previous President's Budget (FY 1996)<br/> Appropriated Value<br/> Adjustments to Appropriated Value<br/> Current Budget Submit/President's Budget<br/> Change Summary Explanation:<br/> FY95 increase reflects additional emphasis on the integration of leading edge technologies across all DISA functional areas.</p> <p><u>C. Other Program Funding Summary:</u><br/> Not Applicable</p> <p><u>D. Schedule Profile:</u><br/> FY95 3rd quarter: Execute SETA support option year.<br/> 4th quarter: Execute FFRDC support MIPRs.<br/> 4th quarter: SOW for SETA support.</p> <p>* Funding for this project has been moved to P.E. 0303126K beginning in FY96.</p> |       |      |                                                                                                 |      |      |      |      |                  |            |                  |  |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)            |                                                                                                 | DATE: March 1996 |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07       | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K |                  |
| A. <u>Project Cost Breakdown</u>                              |                                                                                                 |                  |
| Project Cost Categories                                       |                                                                                                 |                  |
| Management Support Services                                   |                                                                                                 |                  |
| Systems analysis; design & reprogramming                      |                                                                                                 |                  |
| Engineering & Technical Service                               |                                                                                                 |                  |
| Total                                                         |                                                                                                 |                  |
| B. <u>Budget Acquisition History and Planning Information</u> |                                                                                                 |                  |
| N/A                                                           |                                                                                                 |                  |

Page 5 of 25

R-1 Shopping List  
UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                       |       |       |       |       |       |       |                  | DATE: March 1996                                                       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|-------|-------|-------|-------|-------|-------|------------------|------------------------------------------------------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | R-1 ITEM NOMENCLATURE |       |       |       |       |       |       |                  | Joint/Defense Information Systems Engineering and Integration/0302019K |  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | FY95                  | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost                                                             |  |
| Defense-Wide C3 Architecture & Planning/T62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | .166                  | 1.323 | 1.399 | 1.470 | 1.551 | 1.717 | 1.885 | Contg            | Contg                                                                  |  |
| <p><b>A. Mission Description &amp; Budget Item Justification:</b></p> <p>This project encompasses two efforts: (1) The first effort provides the interoperability and integration of resources essential to the achievement of a Global C4I Infrastructure that will be "seamless" to the user. This is accomplished through a multi-level planning program which includes four elements: (a) The Defense Information Infrastructure (DII), which integrates all DOD information systems, sensors, data storage services, communications networks, and computer storage devices to provide collection, processing, storage, display and information transfer; (b) DII Technology Insertion, which provides assessment of the utility of new technology through high level performance simulation of the DII; (c) The Defense Information Systems Network (DISN) which addresses the fixed common-user systems, treating the long haul communications, base-level, and rear-area tactical communications as an end-to-end system with particular focus on user requirements, technology and standards, features and services, security, and network management; (d) the DISN Security which includes current and future DISN security initiatives for communications. (2) The second effort provides planning for interoperability and integration of C4I for the Warrior. This is accomplished through the development of enterprise, mission, functional and technical architecture products. These products depict how all DOD systems, to include information, sensors, data storage services, and communications networks provide collection, processing, storage, display and information transfer. It incorporates the DII and National Information Infrastructure (NII). This project gives DOD overall improved operational performance and reduced costs through common architecture standards and interfaces, and a sharing of assets and capabilities.</p> <p>(U) <b>FY 1995 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>o Develop the Global Command and Control System (GCCS) base-line architecture for the remaining eight CINCs to include all Warrior Joint, Combined or Allied components operating in the Theaters (Jan 95; \$166K).</li> <li>\$1.66M Total</li> </ul> <p>(U) <b>FY 1996 Plans:</b></p> <ul style="list-style-type: none"> <li>o Provide major update of DISN architecture guidance based on FY95 accomplishments together with technology and standards evolution (Sep 96; \$471K).</li> <li>o Initiate DISN transition plan in support of Global Grid (Sep 96; \$341K).</li> <li>o Develop, enhance and apply engineering tools for the computer-aided networks topology design and analysis of current operational DISN networks, planned future DISN networks and service offerings, and proposed alternative future DISN/DII architectures, particularly using ATM and SONET (Sep 96; \$511K).</li> <li>\$1.323M Total</li> </ul> |  |                       |       |       |       |       |       |       |                  |                                                                        |  |

Page 6 of 25

UNCLASSIFIED

**RD T&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)**

**DATE:** March 1996

| APPROPRIATION/BUDGET ACTIVITY               | R-1 ITEM NOMENCLATURE                                                  |       |       |       |       |       |       |                  |            |  |
|---------------------------------------------|------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------|--|
|                                             | Joint/Defense Information Systems Engineering and Integration/0302019K |       |       |       |       |       |       |                  |            |  |
|                                             | COST (in millions)                                                     |       |       |       |       |       |       |                  |            |  |
|                                             | FY95                                                                   | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost |  |
| Defense-Wide C3 Architecture & Planning/T62 | .166                                                                   | 1.323 | 1.399 | 1.470 | 1.551 | 1.717 | 1.885 | Contg            | Contg      |  |

- o Initiate analysis of protocols needed for the goal DISN as a GIGABIT network; perform trade-off analysis of services provided versus threats encountered in the global DISN (Sep 97; \$495K).
- o Continue development of DISN transition strategy and plan in support of Global Grid based on FY96 accomplishments and assess global telecommunications state-of-the-art (Sep 97; \$358K).
- o Continue to develop, enhance and apply engineering tools for the computer-aided network topology design and analysis of current operational DISN networks, planned future DISN networks and service offerings, and proposed alternative future DISN/DII architectures, particularly using ATM and SONET. (Sep 97; \$546K).

**\$1,399M Total**

Acquisition Strategy: The MITRE Corporation, McLean, VA; Booz-Allen & Hamilton, Inc., Bethesda, MD; The Institute for Defense Analysis, Alexandria, VA; Artel, Inc., Reston, VA; Logicon, Reston, VA; Computer Sciences Corporation.

## Previous President's Budget (FY 1996)

Appropriated Value

### Adjustments to Appropriated Value

### Adjustments to Budget Year Since FY 96 President's Budget

**Current Budget Submit/President's Budget**

**Change Summary Explanation:**

FY96 reduction due to Congressional adjustment of Defense-wide investment appropriations and below reprogramming threshold.

**FY97 reduction due to revised fiscal guidance.**

### C. Other Program Funding Summary

**Related RDT&E:** Relates to other projects in P.E. 0302019K

Page 7 of 25

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)     |              |                                                                |       |       |                                                                                                 |       |       |       |                  | DATE: March 1996 |
|---------------------------------------------------------|--------------|----------------------------------------------------------------|-------|-------|-------------------------------------------------------------------------------------------------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07 |              |                                                                |       |       | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K |       |       |       |                  |                  |
| COST (in millions)                                      |              | FY95                                                           | FY96  | FY97  | FY98                                                                                            | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| Defense-Wide C3 Architecture & Planning/T62             |              | .166                                                           | 1.323 | 1.399 | 1.470                                                                                           | 1.551 | 1.717 | 1.885 | Contig           | Contig           |
| D. Schedule Profile                                     |              |                                                                |       |       |                                                                                                 |       |       |       |                  |                  |
| FY95                                                    | 2nd quarter: | Develop Integrated Network and System Management Architecture. |       |       |                                                                                                 |       |       |       |                  |                  |
|                                                         | 3rd quarter: | Publish DISN-Global Grid Transition Strategy.                  |       |       |                                                                                                 |       |       |       |                  |                  |
| FY96                                                    | 3rd quarter: | Publish major update of Global DISN Architecture.              |       |       |                                                                                                 |       |       |       |                  |                  |
|                                                         | 4th quarter: | Develop CINC Architecture to support GCCS.                     |       |       |                                                                                                 |       |       |       |                  |                  |
| FY97                                                    | 2nd quarter: | Publish Analysis of Global DISN Services versus Threats.       |       |       |                                                                                                 |       |       |       |                  |                  |
|                                                         | 2nd quarter: | Publish C4I Migration Strategies to GCCS Target.               |       |       |                                                                                                 |       |       |       |                  |                  |

Page 8 of 25

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)            |                                                  |                                |                               |                          |                                                                                                                                                  |                |                |                |                       | DATE: March 1996          |
|---------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------------|---------------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07       |                                                  |                                |                               |                          | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K/Defense-Wide<br>C3 Architecture & Planning (I62) |                |                |                |                       |                           |
| A. <u>Project Cost Breakdown</u>                              |                                                  |                                |                               |                          |                                                                                                                                                  |                |                |                |                       |                           |
| Project Cost Categories                                       |                                                  |                                |                               |                          | FY95                                                                                                                                             | FY96           | FY97           |                |                       |                           |
| a. Systems Engineering                                        |                                                  |                                |                               |                          | 166                                                                                                                                              | 1,323          | 1,399          |                |                       |                           |
| Total                                                         |                                                  |                                |                               |                          | 166                                                                                                                                              | 1,323          | 1,399          |                |                       |                           |
| B. <u>Budget Acquisition History and Planning Information</u> |                                                  |                                |                               |                          |                                                                                                                                                  |                |                |                |                       |                           |
| Contractor or<br>Government<br>Performing<br>Activity         | Contract<br>Method/Type<br>or Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Prior to<br>FY95                                                                                                                                 | Budget<br>FY95 | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete | Total<br>Program<br>Contg |
| Multiple<br>Performing<br>Activities                          | SS/C<br>CPAF<br>CPFF<br>MIPR<br>WR               |                                |                               |                          |                                                                                                                                                  | 166            | 1,323          | 1,399          | Contg                 |                           |
| Government Furnished Property: N/A                            |                                                  |                                |                               |                          |                                                                                                                                                  |                |                |                |                       |                           |
| Total Project                                                 |                                                  |                                |                               |                          |                                                                                                                                                  | 166            | 1,323          | 1,399          |                       |                           |

Page 9 of 25

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |                       |      |      |      |      |      | DATE: March 1996                                                       |                  |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------------------|------|------|------|------|------|------------------------------------------------------------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  | R-1 ITEM NOMENCLATURE |      |      |      |      |      | Joint/Defense Information Systems Engineering and Integration/0302019K |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |                       |      |      |      |      |      |                                                                        |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  | FY95                  | FY96 | FY97 | FY98 | FY99 | FY00 | FY01                                                                   | Cost of Complete | Total Cost |
| Theater C3 Technical Integration/T63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | .686                  | .447 | 0*   | 0    | 0    | 0    | 0                                                                      | Contig           | Contig     |
| <p><b>A. Mission Description &amp; Budget Item Justification:</b></p> <p>This project provides technical engineering support to ensure technical integration of tactical switched systems and associated network management into the Strategic Network in a seamless architecture that supports the C4I/TW concept. The project provides support directly to the warfighting and supporting CINCs to overcome deficiencies in the interface and management between tactical and strategic as well as tactical-to-tactical switched systems and to provide C3 capabilities that contribute to mission accomplishment. This project supports DISA's designated responsibilities as the technical integrator for tactical to DISN switched systems and as the integrator for all DOD communications network management systems. In addition, it provides a method to inject Corporate Information Management (CIM), and Defense Information Infrastructure (DII) concepts, evolving architectures and standards into the theater commands, thus contributing to the achievement of the global C3I infrastructure. USCENCOM, USEUCOM, USPACOM, and USSOUTHCOM depend on this project to correct existing C3 deficiencies which have significant operational impacts. This support is near-term, externally focused and user oriented; the recommendations are developed in coordination with the warfighting planners. This project provides the technical guidance to CINC and Service C4I system development to ensure that both CINC and Service programs incorporate and are consistent with the DISN Goal Architecture and C4I/TW guidance.</p> <p>* Beginning FY 1997, Projects T63 and T65 are combined into a new project, "CINCP/JTF C4 Integration", T66.</p> |  |  |  |                       |      |      |      |      |      |                                                                        |                  |            |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                       |  |      |      |      |      |      |      | DATE: March 1996                                                       |                  |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|--|------|------|------|------|------|------|------------------------------------------------------------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | R-1 ITEM NOMENCLATURE |  |      |      |      |      |      |      | Joint/Defense Information Systems Engineering and Integration/0302019K |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | COST (in millions)    |  | FY95 | FY96 | FY97 | FY98 | FY99 | FY00 | FY01                                                                   | Cost of Complete | Total Cost |
| Theater C3 Technical Integration/T63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                       |  | .686 | .447 | 0    | 0    | 0    | 0    | 0                                                                      | Contg            | Contg      |
| <p>(U) FY 1995 Accomplishments:</p> <ul style="list-style-type: none"> <li>o Provide engineering support to objective system for Joint Network Management (JNM) Program (Sep 95; \$251K).</li> <li>o Initiate engineering support for a special purpose data circuit multiplexer to be placed in the Ground Mobile Forces (GMF) Gateways in support of the seamless Strat/Tac interface (Sep 95; \$120K).</li> <li>o Initiate prototype evaluations of COTS Switching candidate hardware for use in the Joint Task Force (JTF) objective architecture (Sep 95; \$64K).</li> <li>o Evaluate COTS Joint Communications Planning and Management System (JCPMS) candidates for use in switching network (Sep 95; \$40K).</li> <li>o Provide engineering support in the transition of Integrated Tactical Secure Data Network (ITSDN) into Service Programs (Sep 95; \$80K).</li> <li>o Develop Joint Integrated Tactical Communicators Architecture (Mar 95; \$131K).</li> </ul> <p>\$ .686M Total</p> |  |                       |  |      |      |      |      |      |      |                                                                        |                  |            |
| <p>(U) FY 1996 Plans:</p> <ul style="list-style-type: none"> <li>o Provide engineering for Joint Communications Planning and Management System (JCPMS) Planning and Management Support (Sep 96; \$223K).</li> <li>o Develop architecture documentation and provide support necessary for implementation of the Joint Task Force Tactical Communications Architecture, provide technical support for the Joint Task Force interoperability work, and assist with solving JTF interoperability problems referred to DISA for resolution. (Sep 96; \$224K).</li> </ul> <p>\$ .447M Total</p>                                                                                                                                                                                                                                                                                                                                                                                                          |  |                       |  |      |      |      |      |      |      |                                                                        |                  |            |
| <p>Acquisition strategy: Booz-Allen &amp; Hamilton, Inc., Bethesda, MD; The MITRE Corporation, McLean, VA; Logicon Eagle Technology, Inc., Reston, VA and Winter Park, FL.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                       |  |      |      |      |      |      |      |                                                                        |                  |            |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                              |  |  |  |  |                                                                             |       |      |            |      | DATE: March 1996 |      |                  |            |
|------------------------------------------------------------------------------------------------------------------|--|--|--|--|-----------------------------------------------------------------------------|-------|------|------------|------|------------------|------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                    |  |  |  |  | R-1 ITEM NOMENCLATURE                                                       |       |      |            |      |                  |      |                  |            |
| RDT&E, Defense Wide/07                                                                                           |  |  |  |  | Joint/Defense Information Systems Engineering and Integration/0302019K      |       |      |            |      |                  |      |                  |            |
| COST (in millions)                                                                                               |  |  |  |  | FY95                                                                        | FY96  | FY97 | FY98       | FY99 | FY00             | FY01 | Cost of Complete | Total Cost |
| Theater C3 Technical Integration/T63                                                                             |  |  |  |  | .686                                                                        | .447  | 0*   | 0          | 0    | 0                | 0    | Contig           | Contig     |
| <b>B. Program Change Summary</b>                                                                                 |  |  |  |  |                                                                             |       |      |            |      |                  |      |                  |            |
| Previous President's Budget (FY 1996)                                                                            |  |  |  |  | FY95                                                                        | FY96  | FY97 | FY98       | FY99 | FY00             | FY01 | Cost of Complete | Total Cost |
| Appropriated Value                                                                                               |  |  |  |  | .679                                                                        | .927  | .927 | .871       |      |                  |      |                  |            |
| Adjustments to Appropriated Value                                                                                |  |  |  |  | .679                                                                        | .927  |      |            |      |                  |      |                  |            |
| Adjustments to Budget Year Since FY96 President's Budget                                                         |  |  |  |  | +.007                                                                       | -.480 |      |            |      |                  |      |                  |            |
| Current Budget Submit/President's Budget                                                                         |  |  |  |  | .686                                                                        | .447  |      |            |      |                  |      |                  |            |
| Change Summary Explanation:                                                                                      |  |  |  |  |                                                                             |       |      |            |      |                  |      |                  |            |
| FY96 reduction due to Congressional adjustment of Defense-wide appropriations and below threshold reprogramming. |  |  |  |  |                                                                             |       |      |            |      |                  |      |                  |            |
| * In FY97, funding for this project was combined with Project T65 in a new project, T66.                         |  |  |  |  |                                                                             |       |      |            |      |                  |      |                  |            |
| <b>C. Other Program Funding Summary</b>                                                                          |  |  |  |  |                                                                             |       |      |            |      |                  |      |                  |            |
| Operation and Maintenance:                                                                                       |  |  |  |  | FY95                                                                        | FY96  | FY97 | Total Cost |      |                  |      |                  |            |
|                                                                                                                  |  |  |  |  | .044                                                                        | .027  | .025 | Contig     |      |                  |      |                  |            |
| Related RDT&E: Other projects in PE #0302019K.                                                                   |  |  |  |  |                                                                             |       |      |            |      |                  |      |                  |            |
| <b>D. Schedule Profile</b>                                                                                       |  |  |  |  |                                                                             |       |      |            |      |                  |      |                  |            |
| FY95 1st quarter:                                                                                                |  |  |  |  | Transition/Implementation Plan for Joint Integrated Tactical Switch (JITS). |       |      |            |      |                  |      |                  |            |
| 1st quarter:                                                                                                     |  |  |  |  | Final Tactical Switching Goal Architecture Published.                       |       |      |            |      |                  |      |                  |            |
| 2nd quarter:                                                                                                     |  |  |  |  | Joint Requirement Oversight Council (JROC) briefing on JITS.                |       |      |            |      |                  |      |                  |            |
| 3rd quarter:                                                                                                     |  |  |  |  | Publish JITS Operational Requirements Document (ORD).                       |       |      |            |      |                  |      |                  |            |
| 4th quarter:                                                                                                     |  |  |  |  | JITS Milestone O/I Review.                                                  |       |      |            |      |                  |      |                  |            |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                             |  |                                                                                                 |      |      |      |      |      |      |                  | DATE: March 1996 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------------------|------------------|--|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                   |  | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K |      |      |      |      |      |      |                  |                  |  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                              |  | FY95                                                                                            | FY96 | FY97 | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost       |  |
| Theater C3 Technical Integration/T63                                                                                                                                                                                                                                                                                                            |  | .686                                                                                            | .447 | 0    | 0    | 0    | 0    | 0    | Contg            | Contg            |  |
| <p>FY96 1st quarter: Limited Testing and Evaluation of JITS prototypes.<br/> 2nd quarter: JITS Milestone III Review.<br/> 2nd quarter: Initial Fielding of Joint Communications Network Management Tool.<br/> 3rd quarter: Issue RFP for JITS.<br/> 3rd quarter: Fielding/Retrofit of Circuit Switch Routing Task Execution Plan (CSR TEP).</p> |  |                                                                                                 |      |      |      |      |      |      |                  |                  |  |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                                                    |                                                  |                                |                               |                          |                                                                                                                                           |                |                |                |                       | DATE: March 1996 |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                               |                                                  |                                |                               |                          | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K/Theater C3<br>Technical Integration (T63) |                |                |                |                       |                  |
| A. <u>Project Cost Breakdown</u>                                                                      |                                                  |                                |                               |                          | <u>FY95</u>                                                                                                                               | <u>FY96</u>    | <u>FY97</u>    |                |                       |                  |
| Project Cost Categories                                                                               |                                                  |                                |                               |                          |                                                                                                                                           |                |                |                |                       |                  |
| a. Systems Engineering                                                                                |                                                  |                                |                               |                          | 686                                                                                                                                       | 447            | 0              |                |                       |                  |
| Total                                                                                                 |                                                  |                                |                               |                          | 686                                                                                                                                       | 447            | 0*             |                |                       |                  |
| B. <u>Budget Acquisition History and Planning Information</u><br>Support and Management Organizations |                                                  |                                |                               |                          |                                                                                                                                           |                |                |                |                       |                  |
| Contractor or<br>Government<br>Performing<br>Activity                                                 | Contract<br>Method/Type<br>or Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Prior to<br>FY95                                                                                                                          | Budget<br>FY95 | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete | Total<br>Program |
| Multiple<br>Performing<br>Activities                                                                  | SS/C<br>CPAF<br>CPFF<br>MIPR<br>WR               |                                |                               |                          |                                                                                                                                           | 686            | 447            | 0              | Contg                 | Contg            |
| Government Furnished Property: N/A                                                                    |                                                  |                                |                               |                          |                                                                                                                                           |                |                |                |                       |                  |
| Total Project:                                                                                        |                                                  |                                |                               |                          |                                                                                                                                           | 686            | 447            | 0              |                       |                  |

\* Beginning FY 1997, Projects T63 and T65 are combined into a new project, "CINCPACFLT C4 Integration", T66.

Page 14 of 25

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                       |      |      |      |      |      |      |                  | DATE: March 1996                                                       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|------|------|------|------|------|------|------------------|------------------------------------------------------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | R-1 ITEM NOMENCLATURE |      |      |      |      |      |      |                  | Joint/Defense Information Systems Engineering and Integration/0302019K |  |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                       |      |      |      |      |      |      |                  |                                                                        |  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | FY95                  | FY96 | FY97 | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost                                                             |  |
| Technology Advancement/A19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | .491                  | .349 | .361 | .367 | .362 | .377 | .393 | Contg            | Contg                                                                  |  |
| <p><b>A. Mission Description &amp; Budget Item Justification:</b></p> <p>The rapid evolution of the global military environment is driving a major evolution of the DoD force structure and military operations, requiring greater flexibility to meet the global warfighting requirements to rapidly project forces anywhere in the world. This project supports the development of a DoD-wide Defense Interactive Simulation (DIS) compliant C4I simulator. Models of the Defense Information Infrastructure (DII) support mission testing, training and operation activities, and integration with Joint Warrior Simulation (JWARS)/Joint Simulation System (JSIMS).</p> <p>(U) FY 1995 Accomplishments:</p> <ul style="list-style-type: none"> <li>o Begin development of a prototype C4I model. ((Continuing; \$400K)</li> <li>o Developed C4I prototype models to assess CINC operational plans (Continuing; \$91K)</li> <li>\$491M Total</li> </ul> <p>(U) FY 1996 Plans:</p> <ul style="list-style-type: none"> <li>o Development of an initial operating capability. (Continuing; \$349K)</li> <li>\$349M Total</li> </ul> <p>(U) FY 1997 Plans:</p> <ul style="list-style-type: none"> <li>o Integrate theater level force deployment models. (Continuing; \$223K)</li> <li>o Begin full-scale integration with Warrior Simulation (WARSIM) 2000. (Continuing; \$138K)</li> <li>\$361M Total</li> </ul> |  |                       |      |      |      |      |      |      |                  |                                                                        |  |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                                                                        |         |      |      |         |      | DATE: March 1996 |                  |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------------|---------|------|------|---------|------|------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  | R-1 ITEM NOMENCLATURE                                                  |         |      |      |         |      |                  |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  | Joint/Defense Information Systems Engineering and Integration/0302019K |         |      |      |         |      |                  |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  | FY95                                                                   | FY96    | FY97 | FY98 | FY99    | FY00 | FY01             | Cost of Complete | Total Cost |
| Technology Advancement/A19                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  | .491                                                                   | .349    | .361 | .367 | .362    | .377 | .393             | Contg            | Contg      |
| <p><b>B. Program Change Summary</b></p> <p>Previous President's Budget (FY 1996)</p> <p>Appropriated Value</p> <p>Adjustments to Appropriated Value</p> <p>Adjustments to Budget Year Since FY96 President's Budget</p> <p>Current Budget Submit/President's Budget</p> <p>Change Summary Explanation:</p> <p>FY96 reduction due to Congressional adjustment of Defense-wide appropriations and below threshold reprogramming.</p> <p>FY97 reduction due to revised inflation rates.</p> |  |  |  |                                                                        |         |      |      |         |      |                  |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  | FY95                                                                   | FY96    |      |      | FY97    |      |                  |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  | .491                                                                   | .479    |      |      | .473    |      |                  |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  | .491                                                                   | .479    |      |      |         |      |                  |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  | 0                                                                      | -.130   |      |      |         |      |                  |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  | .491                                                                   | .349    |      |      | -.112   |      |                  |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |                                                                        |         |      |      | .361    |      |                  |                  |            |
| <p><b>C. Other Program Funding Summary:</b></p> <p>PE0303126K Project E61</p> <p>MILSATCOM and DII Planning</p>                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |                                                                        |         |      |      |         |      |                  |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  | FY95                                                                   | FY96    |      |      | FY97    |      |                  | Total Cost       |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  | 0                                                                      | 0       |      |      | 0.500   |      |                  | Continuing       |            |
| <p><b>D. Schedule Profile:</b></p> <p>Fiscal Year actual and planned events by quarter.</p>                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |                                                                        |         |      |      |         |      |                  |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  | FY95                                                                   | FY96    |      |      | FY97    |      |                  |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  | 1 2 3 4                                                                | 1 2 3 4 |      |      | 1 2 3 4 |      |                  |                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  | X                                                                      | X       |      |      | X       |      |                  |                  |            |
| Contract Milestones                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                                                                        |         |      |      |         |      |                  |                  |            |
| Execute option year of technical support contract                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |                                                                        |         |      |      |         |      |                  |                  |            |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                 |                                                                                                          | DATE: March 1996 |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07            | R-1 ITEM NOMENCLATURE<br>Joint/Defen. Info Sys Eng and Integration/0302019K/Technology Advancement (A19) |                  |
| A. <u>Project Cost Breakdown</u>                                   |                                                                                                          |                  |
| Project Cost Categories                                            |                                                                                                          |                  |
| a. System analysis, design and programming                         |                                                                                                          |                  |
| b. Engineering and Technical Services                              |                                                                                                          |                  |
| Total                                                              |                                                                                                          |                  |
| B. <u>Budget Acquisition History and Planning Information: N/A</u> |                                                                                                          |                  |

Page 17 of 25

R-1 Shopping List  
UNCLASSIFIED

56

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                |  |                                                                                                 |       |       |       |       |       |       |                  | DATE: March 1996 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                            |  | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K |       |       |       |       |       |       |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                 |  | FY95                                                                                            | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| Special Projects/T64                                                                                                                                                                                                                                                                                                                               |  | 1.210                                                                                           | 1.100 | 1.155 | 1.205 | 1.253 | 1.394 | 1.541 | Contg            | Contg            |
| <p><b>A. Mission Description and Budget Item Justification</b><br/> All aspects of this project are classified and require special access. Therefore, information on this project is not contained in this document but can be obtained upon request. This combines projects previously known as Strategic C3 Architecture and Thrift Account.</p> |  |                                                                                                 |       |       |       |       |       |       |                  |                  |
| <p><b>B. Program Change Summary</b><br/> Previous President's Budget (FY 1996)<br/> Appropriated Value<br/> Adjustments to Appropriated Value<br/> Adjustments to Budget Year Since FY96 President's Budget<br/> Current Budget Submit/President's Budget</p>                                                                                      |  |                                                                                                 |       |       |       |       |       |       |                  |                  |
| <p><b>C. Other Program Funding Summary</b><br/> Change Summary Explanation:<br/> Funding: FY95 adjustment due to below threshold reprogramming.<br/> FY96 reduction due to Congressional adjustment of Defense-wide appropriations and below threshold reprogramming.<br/> FY97 reduction due to revised inflation rates.</p>                      |  |                                                                                                 |       |       |       |       |       |       |                  |                  |
| <p><b>D. Schedule Profile</b><br/> Information will be made available upon request.</p>                                                                                                                                                                                                                                                            |  |                                                                                                 |       |       |       |       |       |       |                  |                  |
| <p>Related RDT&amp;E: P.E. 0303131K, Minimum Essential Emergency Communications Network (MEECN).</p>                                                                                                                                                                                                                                               |  |                                                                                                 |       |       |       |       |       |       |                  |                  |

Page 18 of 25

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                                                    |                                                  |                                |                               |                          |                                                                                                                        |                |                |                |                       | DATE: March 1996          |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------------|---------------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                               |                                                  |                                |                               |                          | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K/Special Projects (T64) |                |                |                |                       |                           |
| A. <u>Project Cost Breakdown</u>                                                                      |                                                  |                                |                               |                          |                                                                                                                        |                |                |                |                       |                           |
| Project Cost Categories                                                                               |                                                  |                                |                               |                          | <u>FY95</u>                                                                                                            | <u>FY96</u>    | <u>FY97</u>    |                |                       |                           |
| a. Systems Engineering                                                                                |                                                  |                                |                               |                          | 1,210                                                                                                                  | 1,100          | 1,155          |                |                       |                           |
| Total                                                                                                 |                                                  |                                |                               |                          | 1,210                                                                                                                  | 1,100          | 1,155          |                |                       |                           |
| B. <u>Budget Acquisition History and Planning Information</u><br>Support and Management Organizations |                                                  |                                |                               |                          |                                                                                                                        |                |                |                |                       |                           |
| Contractor or<br>Government<br>Performing<br>Activity                                                 | Contract<br>Method/Type<br>or Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Prior to<br>FY95                                                                                                       | Budget<br>FY95 | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete | Total<br>Program<br>Contg |
| MITRE                                                                                                 | SS/CPFF                                          |                                |                               |                          |                                                                                                                        | 1,210          | 1,100          | 1,155          | Contg                 |                           |
| Government Furnished Property: N/A                                                                    |                                                  |                                |                               |                          |                                                                                                                        |                |                |                |                       |                           |
| Total Project                                                                                         |                                                  |                                |                               |                          |                                                                                                                        | 1,210          | 1,100          | 1,155          |                       |                           |

Page 19 of 25

R-1 Shopping List  
UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                       |  |      |      |      |      |      |      | DATE: March 1996                                                       |                  |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|--|------|------|------|------|------|------|------------------------------------------------------------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | R-1 ITEM NOMENCLATURE |  |      |      |      |      |      |      | Joint/Defense Information Systems Engineering and Integration/0302019K |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | COST (in millions)    |  | FY95 | FY96 | FY97 | FY98 | FY99 | FY00 | FY01                                                                   | Cost of Complete | Total Cost |
| CINCUSACOM Support/T65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                       |  | .350 | .526 | 0*   | 0    | 0    | 0    | 0                                                                      | Contg            | Contg      |
| <p><b>A. Mission Description &amp; Budget Item Justification.</b></p> <p>This project develops the near and mid-term Command, Control, Communications and Computer (C4) plans for CINCUSACOM, identifies shortcomings in C4 systems and procedures and, when appropriate, prototype solutions to those shortcomings. The CJCS Unified Command Plan significantly increased ACOM's missions, giving the command the responsibility for joint training, joint force packaging, UN peacekeeping support and the land defense of CONUS and Canada. Because of this, USACOM's C4 planning encompasses missions much broader than other unified commands and will serve as a model for them. Therefore, this project's outputs not only contain the only C4 planning done for specific operational missions but they will also contain key portions of the C4 planning for support to all CINCs' operational missions. Implementation of this project will, therefore, provide global benefits for all the nation's security objectives.</p> <p>(U) FY 1995 Accomplishments:</p> <ul style="list-style-type: none"> <li>o Integrated other CINC unique system's-based force restructuring and downsizing (Nov 94; \$250K).</li> <li>o Develop updated implementation plan (Nov 94; \$100K).</li> </ul> <p>\$ .350M Total</p> <p>(U) FY 1996 Plans:</p> <ul style="list-style-type: none"> <li>o Support USACOM's production of their FY96 C4SMP Assessment Update (Sep 96; \$240K).</li> <li>o Prototype solutions to USACOM C4 deficiencies with global impact and collect data on ACOM's operational use to expedite standardized solution development (Aug 96; \$286K).</li> </ul> <p>\$ .526M Total</p> <p>Acquisition strategy: Logicon Eagle Technology, Inc., Winter Park, FL</p> <p>* Beginning FY 1997, Projects T63 and T65 are combined into a new project, "CINC/JTF C4 Integration", T66.</p> |  |                       |  |      |      |      |      |      |      |                                                                        |                  |            |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                  |              |                                                       |  |                                                                        |       |       |      |      |      | DATE: March 1996 |                  |            |
|--------------------------------------------------------------------------------------|--------------|-------------------------------------------------------|--|------------------------------------------------------------------------|-------|-------|------|------|------|------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                        |              |                                                       |  | R-1 ITEM NOMENCLATURE                                                  |       |       |      |      |      |                  |                  |            |
| RDT&E, Defense Wide/07                                                               |              |                                                       |  | Joint/Defense Information Systems Engineering and Integration/0302019K |       |       |      |      |      |                  |                  |            |
| COST (in millions)                                                                   |              |                                                       |  | FY95                                                                   | FY96  | FY97  | FY98 | FY99 | FY00 | FY01             | Cost of Complete | Total Cost |
| CINCUSACOM Support/T65                                                               |              |                                                       |  |                                                                        | .350  | .526  | 0*   | 0    | 0    | 0                | Contg            | Contg      |
| B. Program Change Summary                                                            |              |                                                       |  |                                                                        |       |       |      |      |      |                  |                  |            |
| Previous President's Budget (FY 1996)                                                |              |                                                       |  | FY95                                                                   | FY96  | FY97  | FY98 | FY99 | FY00 | FY01             | Cost of Complete | Total Cost |
| Appropriated Value                                                                   |              |                                                       |  |                                                                        | .368  | .451  |      |      |      |                  |                  |            |
| Adjustments to Appropriated Value                                                    |              |                                                       |  |                                                                        | .368  | .451  |      |      |      |                  |                  |            |
| Adjustments to Budget Year Since FY96 President's Budget                             |              |                                                       |  |                                                                        | -.018 | +.075 |      |      |      |                  |                  |            |
| Current Budget Submit/President's Budget                                             |              |                                                       |  |                                                                        | .350  | .526  |      |      |      | 0                |                  |            |
| Change Summary Explanation:                                                          |              |                                                       |  |                                                                        |       |       |      |      |      |                  |                  |            |
| Funding: FY96 increase due to below threshold reprogramming.                         |              |                                                       |  |                                                                        |       |       |      |      |      |                  |                  |            |
| * FY97 funding for this project was combined with Project T63 in a new project, T66. |              |                                                       |  |                                                                        |       |       |      |      |      |                  |                  |            |
| C. Other Program Funding Summary                                                     |              |                                                       |  |                                                                        |       |       |      |      |      |                  |                  |            |
| Operation and Maintenance                                                            |              |                                                       |  |                                                                        |       |       |      |      |      |                  |                  |            |
|                                                                                      |              |                                                       |  | FY96                                                                   | FY97  |       |      |      |      |                  |                  |            |
|                                                                                      |              |                                                       |  | .665                                                                   | 0     |       |      |      |      |                  |                  |            |
| D. Schedule Profile                                                                  |              |                                                       |  |                                                                        |       |       |      |      |      |                  |                  |            |
| FY95                                                                                 | 1st quarter: | Place task on contract                                |  |                                                                        |       |       |      |      |      |                  |                  |            |
| FY95                                                                                 | 3rd quarter: | Delivery of FY95 C4 Systems Master Plan               |  |                                                                        |       |       |      |      |      |                  |                  |            |
| FY96                                                                                 | 1st quarter: | Place tasks on contract                               |  |                                                                        |       |       |      |      |      |                  |                  |            |
| FY96                                                                                 | 3rd quarter: | Delivery of FY96 C4 Assessment                        |  |                                                                        |       |       |      |      |      |                  |                  |            |
| FY96                                                                                 | 4th quarter: | Delivery solution recommendations for ACOM evaluation |  |                                                                        |       |       |      |      |      |                  |                  |            |

Page 21 of 25

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                                                         |                                         |                          |                         |                    |                                                                                                                      |             |             |                           |                      | DATE: March 1996 |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------|-------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------|-------------|-------------|---------------------------|----------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                    |                                         |                          |                         |                    | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K/<br>CINCUSACOM (T65) |             |             |                           |                      |                  |
| A. <u>Project Cost Breakdown</u>                                                                           |                                         |                          |                         |                    | <u>FY95</u>                                                                                                          | <u>FY96</u> | <u>FY97</u> |                           |                      |                  |
| Project Cost Categories                                                                                    |                                         |                          |                         |                    |                                                                                                                      |             |             | <u>Budget To Complete</u> | <u>Total Program</u> |                  |
| a. Systems Engineering                                                                                     |                                         |                          |                         |                    | 350                                                                                                                  | 526         | 0           |                           |                      |                  |
| Total                                                                                                      |                                         |                          |                         |                    | 350                                                                                                                  | 526         | 0*          |                           |                      |                  |
| B. <u>Budget Acquisition History and Planning Information</u>                                              |                                         |                          |                         |                    |                                                                                                                      |             |             |                           |                      |                  |
| Support and Management Organizations                                                                       |                                         |                          |                         |                    |                                                                                                                      |             |             |                           |                      |                  |
| Contractor or Government Performing Activity                                                               | Contract Method/Type or Funding Vehicle | Award or Obligation Date | Performing Activity EAC | Project Office EAC | Prior to FY95                                                                                                        | Budget FY95 | Budget FY96 | Budget FY97               |                      |                  |
|                                                                                                            |                                         |                          |                         |                    |                                                                                                                      | 350         | 526         | 0                         | Contg                | Contg            |
| Government Furnished Property: N/A                                                                         |                                         |                          |                         |                    |                                                                                                                      | 350         | 526         | 0                         |                      |                  |
| Total Project                                                                                              |                                         |                          |                         |                    |                                                                                                                      |             |             |                           |                      |                  |
| * Beginning FY 1997, Projects T63 and T65 are combined into a new project, "CINC/JTF C4 Integration", T66. |                                         |                          |                         |                    |                                                                                                                      |             |             |                           |                      |                  |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                                                                        |      |        |       |       |       |       | DATE: March 1996 |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------------------------------------------------------------------|------|--------|-------|-------|-------|-------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  | R-1 ITEM NOMENCLATURE                                                  |      |        |       |       |       |       |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  | Joint/Defense Information Systems Engineering and Integration/0302019K |      |        |       |       |       |       |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  | FY95                                                                   | FY96 | FY97   | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost |
| CINC/JTF C4 Integration/T66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  | 0                                                                      | 0    | 1.679* | 1.698 | 1.833 | 1.947 | 2.078 | Contg            | Contg      |
| <p><b>A. Mission Description &amp; Budget Item Justification.</b></p> <p>This project provides technical engineering support to ensure technical integration of tactical switched systems and associated network management into the Strategic Network in a seamless architecture that supports the C4I/TW concept. The project provides support directly to the warfighting and supporting CINCs and Joint Task Forces (JTFs) to overcome deficiencies in the interface and management between tactical and strategic as well as tactical-to-tactical switched systems and to provide C3 capabilities that contribute to mission accomplishment. This project supports DISA's designated responsibilities as the technical integrator for tactical to DISN switched systems and as the integrator for all DOD communications network management systems. In addition, it provides a method to inject Defense Information Infrastructure (DII) concepts, evolving architectures and standards into the theater commands, thus contributing to the achievement of the global C4I infrastructure. USCENTCOM, USEUCOM, USPACOM, USSOUTHCOM, USSOCOM, USTRANSCOM and USACOM depend on this project to correct existing C4 deficiencies which have significant operational impacts. The CJCS Unified Command Plan significantly increased ACOM's missions, giving the command the responsibility for joint training, joint force packaging, UN peacekeeping support and the land defense of CONUS and Canada. Because of this, USACOM's C4 planning encompasses missions much broader than other unified commands and will serve as a model for them. Therefore, this project's outputs for ACOM contain not only the C4 planning done for specific ACOM operational missions, but they will also contain key portions of the C4 planning for support to all CINCs' operational missions. This project's support is near-term, externally focused and user oriented; the recommendations are developed in coordination with the warfighting planners. This project provides the technical guidance to CINC and Service C4I system development to ensure that both CINC and Service programs incorporate and are consistent with the DISN Goal Architecture and C4I/TW guidance.</p> <p><b>(U) FY 1997 Plans:</b></p> <ul style="list-style-type: none"> <li>o Continue engineering support in the transition to commercial switching by the joint tactical network (Sep 97; \$146K).</li> <li>o Continue engineering effort in the development of a joint communications planning and management system (Sep 97; \$180K).</li> <li>o Initiate transition strategy that moves the Services into commercial off-the-shelf switching environment (Sep 97; \$107K).</li> <li>o Provide engineering support in the resolution of combined interoperability problems (Sep 97; \$54K).</li> <li>o Develop FY97 C4SMP's for USCENCOM, USEUCOM, USPACOM, USSOUTHCOM, USSOCOM, and USTRANSCOM IAW Joint Staff guidance (Jun 97; \$886K).</li> <li>o Continue improvements to the C4SMP development process (Sep 97; \$70K).</li> <li>o Develop solutions to C4 deficiencies common to the supported CINCs (Contg; \$236K).</li> </ul> <p>\$1.679M Total</p> <p>Acquisition strategy: Booz-Allen &amp; Hamilton, Inc., Bethesda, MD; The MITRE Corporation, McLean, VA; Logicon Eagle Technology, Inc., Reston, VA and Winter Park, FL.</p> <p>* This project is not a new start. It combines Projects T63 and T65 above.</p> |  |  |                                                                        |      |        |       |       |       |       |                  |            |

Page 23 of 25

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                    |              |                                                                                                                 |       |                                                                                                 |       |       |       | DATE: March 1996 |            |
|----------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------|-------|-------|-------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                |              |                                                                                                                 |       | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K |       |       |       |                  |            |
| COST (in millions)                                                                     | FY95         | FY96                                                                                                            | FY97  | FY98                                                                                            | FY99  | FY00  | FY01  | Cost of Complete | Total Cost |
| CINC/JTF C4 Integration/T66                                                            | 0            | 0                                                                                                               | 1.679 | 1.698                                                                                           | 1.833 | 1.947 | 2.078 |                  | Contg      |
| <b>B. Program Change Summary</b>                                                       |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
| Previous President's Budget (FY 1996)                                                  |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
| Appropriated Value                                                                     |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
| Adjustments to Appropriated Value                                                      |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
| Adjustments to Budget Year Since FY96 President's Budget                               |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
| Current Budget Submit/President's Budget                                               |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
|                                                                                        |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
| Change Summary Explanation:                                                            |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
| Funding: *Beginning FY 1997, -Projects T63 and T65 are combined into this new project. |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
| <b>C. Other Program Funding Summary</b>                                                |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
|                                                                                        |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
| Operation and Maintenance:                                                             |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
|                                                                                        |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
| Related RDT&E: Other projects in PE #0302019K.                                         |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
| <b>D. Schedule Profile</b>                                                             |              |                                                                                                                 |       |                                                                                                 |       |       |       |                  |            |
| FY97                                                                                   | 1st quarter: | Place tasks on contract.                                                                                        |       |                                                                                                 |       |       |       |                  |            |
|                                                                                        | 2nd quarter: | Contract Award Joint Integrated Tactical Switch (JITS).                                                         |       |                                                                                                 |       |       |       |                  |            |
|                                                                                        | 3rd quarter: | Delivery of FY97 C4 Systems Master Plan.                                                                        |       |                                                                                                 |       |       |       |                  |            |
|                                                                                        | 4th quarter: | JITS Limited Production Fielding.                                                                               |       |                                                                                                 |       |       |       |                  |            |
|                                                                                        | 4th quarter: | Operational Test and Evaluation/Users Test for JITS.                                                            |       |                                                                                                 |       |       |       |                  |            |
|                                                                                        | 4th quarter: | JITS Asynchronous Transfer Mode (ATM) Preplanned Product Improvements (P3D) integration testing and evaluation. |       |                                                                                                 |       |       |       |                  |            |

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                                                    |                                                  |                                |                               |                          |                                                                                                                                   |                |                |                |                       | DATE: March 1996 |       |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------------|------------------|-------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                               |                                                  |                                |                               |                          | R-1 ITEM NOMENCLATURE<br>Joint/Defense Information Systems Engineering and Integration/0302019K/<br>CINC/JTF C4 Integration (T66) |                |                |                |                       |                  |       |
| A. <u>Project Cost Breakdown</u>                                                                      |                                                  |                                |                               |                          |                                                                                                                                   |                |                |                |                       |                  |       |
| Project Cost Categories                                                                               |                                                  |                                |                               |                          |                                                                                                                                   |                |                |                |                       |                  |       |
| a. Systems Engineering                                                                                |                                                  |                                |                               |                          |                                                                                                                                   |                |                |                |                       |                  |       |
| Total                                                                                                 |                                                  |                                |                               |                          |                                                                                                                                   |                |                |                |                       |                  |       |
| B. <u>Budget Acquisition History and Planning Information</u><br>Support and Management Organizations |                                                  |                                |                               |                          |                                                                                                                                   |                |                |                |                       |                  |       |
| Contractor or<br>Government<br>Performing<br>Activity                                                 | Contract<br>Method/Type<br>or Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Prior to<br>FY95                                                                                                                  | Budget<br>FY95 | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete | Total<br>Program | Contg |
| Multiple<br>Performing<br>Activities                                                                  | SS/C<br>CPAF<br>CPFF<br>MIPR<br>WR               |                                |                               |                          |                                                                                                                                   | 0              | 0              | 1,679          | Contg                 |                  |       |
| Government Furnished Property: N/A                                                                    |                                                  |                                |                               |                          |                                                                                                                                   |                |                |                |                       |                  |       |
| Total Project:                                                                                        |                                                  |                                |                               |                          |                                                                                                                                   |                |                |                |                       |                  |       |
| 0 0 0 0 1,679                                                                                         |                                                  |                                |                               |                          |                                                                                                                                   |                |                |                |                       |                  |       |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                           |  |                                                               |        |        |       |       |       |       |                  |            | DATE: March 1996 |  |
|-------------------------------------------------------------------------------|--|---------------------------------------------------------------|--------|--------|-------|-------|-------|-------|------------------|------------|------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                       |  | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications |        |        |       |       |       |       |                  |            |                  |  |
| COST (in millions)                                                            |  | FY95                                                          | FY96   | FY97   | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost |                  |  |
| Total Program Element (PE) Cost:<br>PE0303126K                                |  | 27.166                                                        | 20.060 | 23.361 | 8.352 | 8.499 | 8.796 | 9.107 | Contg            | Contg      |                  |  |
| Project E25 Commercial Satellite<br>Communications Initiatives Follow-On      |  | 10.000                                                        | 7.263  | 7.636  | 0     | 0     | 0     | 0     | 0                | 44.899     |                  |  |
| Project E26 Leading Edge Pilot Information<br>Technology                      |  | 0*                                                            | 2.873  | 3.029  | 3.139 | 3.260 | 3.404 | 3.527 | Contg            | Contg      |                  |  |
| Project E61 MILSATCOM and Defense<br>Information Infrastructure (DI) Planning |  | 0*                                                            | 4.113  | 4.671  | 4.749 | 4.780 | 4.919 | 5.092 | Contg            | Contg      |                  |  |
| Project U16 Secure Video Teleconferencing<br>System                           |  | 0.717                                                         | 0.646  | 0      | 0     | 0     | 0     | 0     | 0                | 2.645      |                  |  |
| Project U20 Defense Information System<br>Network (DISN)                      |  | 5.922                                                         | 0      | 0      | 0     | 0     | 0     | 0     | 0                | 14.831     |                  |  |
| Project H20 Defense Information System<br>Network (DISN) Acquisition          |  | 1.380                                                         | 2.131  | 7.558  | 0     | 0     | 0     | 0     | 0                | 13.307     |                  |  |
| Project U30 Integrated System/Network<br>Management                           |  | 2.672                                                         | 0      | 0      | 0     | 0     | 0     | 0     | 0                | 5.695      |                  |  |
| Project U40 Defense Satellite Comm System<br>(DSCS) Satellite Comm (SATCOM)   |  | 2.346                                                         | 0      | 0      | 0     | 0     | 0     | 0     | 0                | 6.303      |                  |  |
| Project U50 Defense Switched Network<br>(DSN)                                 |  | 0.815                                                         | 0      | 0      | 0     | 0     | 0     | 0     | 0                | 1.798      |                  |  |

Page 1 of 30

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                               |       |       |       |       |       |       |                  | DATE: March 1996 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications |       |       |       |       |       |       |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | FY95                                                          | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| Project H80 Defense Message System (DMS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 2.904                                                         | 2.589 | **    | **    | **    | **    | **    | Contg            | Contg            |
| Project W90 White House Situation Support Staff                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 0.410                                                         | 0.445 | 0.467 | 0.464 | 0.459 | 0.473 | 0.488 | Contg            | Contg            |
| <p>A. (U) <u>Mission Description and Budget Item Justification:</u> This program element funds system engineering, test and evaluation for the Defense Communications System (DCS)/Defense Information Systems Network (DISN) which provides Defense-wide communications for the day-to-day operations of the DOD and serves as the core of DOD wartime communications for the National Command Authorities (NCA), the Joint Chiefs of Staff (JCS), the Commanders in Chief (CINC's), and other critical users. This PE provides for the engineering to consolidate the operational communications networks into DISN and for the technologies, commercial equipments and service offerings to reduce the cost of the DCS/DISN and to provide valuable new information services to users.</p> <p>The PE consists of 11 projects. Project E25 develops and implements a commercial satellite communications systems pilot program in support of the DSCS/DISN. Project E26 supports Leading Edge Pilot Services which include information for worldwide DOD user and research communities. This project is not a new start but an evolving functional realignment within current areas. Project E61 supports the planning and decision management to provide responsive communications and information services to support evolving military missions. Project U16 supports the development of SVTS, a highly secure video teleconferencing crisis management system used by the NCA and Executive agencies. Project U20 supports design and development of DISN, an interoperable, flexible, integrated, efficient and affordable network to provide the full spectrum of communications and information transfer requirements for the future of DOD. Project H20, DISN Acquisition, was formed in FY94 by transferring those portions of projects U20 and U30 which cover DISN service contracts. This work is not a new start. Project U30 supports the design and development of an efficient, cost effective, survivable, fully integrated, worldwide system/network management capability supporting the global grid concept, based on emerging newly developed DOD standards and incorporating the latest technology. Project U40 includes the enhancement/integration of DSCS and tactical satellite resources into DISN and use of commercial SATCOM to provide unique capabilities required for extension of DISN to deployed tactical elements. Project U50 supports network and system engineering for the DSN and the assessment, testing and network engineering of emerging technologies for their insertion into Defense Information Infrastructure (DII). Project H80 supports the development of DMS which is designed to provide the defense community a more interoperable and cost effective messaging service. Project W90 supports engineering to provide full level crisis management capabilities for the White House. This program element is under Budget Activity 07 because it involves efforts supporting operational systems development.</p> |  |                                                               |       |       |       |       |       |       |                  |                  |

\* Neither project E26 nor project E61 are new starts. They reflect a functional realignment and a transfer of effort from PE0302019K.

\*\* Project H80 has been transferred to PE 0303129K beginning in FY 1997.

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |       |                                                               |      |      |      |      |                  |            | DATE: March 1996 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|---------------------------------------------------------------|------|------|------|------|------------------|------------|------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |       | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications |      |      |      |      |                  |            |                  |  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FY95   | FY96  | FY97                                                          | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost |                  |  |
| Project E25 Commercial Satellite Communications Initiatives Follow-On                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10.000 | 7.263 | 7.636                                                         | 0    | 0    | 0    | 0    | 0                | 44.899     |                  |  |
| <p><b>A. Mission Description &amp; Budget Item Justification:</b></p> <p>(U) This project develops and implements pilot capabilities for a proof of concept using available commercial satellite communications capabilities. This program establishes a seed pilot network, a tool for networking planning, development of a bandwidth management capability for leased whole transponders, and validation of a concept to reduce DOD commercial satellite telecommunications costs by bundling of individual circuit leases and by consolidating telecommunications requirements on whole transponders. The pilot network will offer a variety of services that are presently not available, such as downloading high data rate information from airborne vehicles via commercial satellites to processing centers, and dissemination of information to remote users. This program will demonstrate how to integrate commercial satellite capabilities with the Defense Information System Network (DISN) and Defense Satellite Communications System (DSCS).</p> <p>(U) FY 1995 Accomplishments:</p> <ul style="list-style-type: none"> <li>o Piloted Network Initial Operational Capability</li> <li>- Started bandwidth mgmt services, extend coverage to Pacific area, established airborne vehicle services</li> <li>o Continued contracts for transponder and bandwidth mgmt center (\$10M)</li> <li>o Established gateway teleport to support DISN</li> <li>\$10.000M Total</li> </ul> <p>(U) FY1996 Plans:</p> <ul style="list-style-type: none"> <li>o Continue contracts and extend services to new regions (\$7.263M)</li> <li>o Validate new contracts</li> <li>o Expand pilot network services (Ongoing) <ul style="list-style-type: none"> <li>- Serve telemedicine, meteorological and ships at sea applications</li> </ul> </li> <li>o Support Bosnia Peace Keeping</li> <li>\$7.263M Total</li> </ul> <p>(U) FY 1997 Plans:</p> <ul style="list-style-type: none"> <li>o Expand pilot services (\$7.636M Ongoing)</li> <li>o Validate concepts (4Q97) <ul style="list-style-type: none"> <li>- sustainable customer base established, integration with DSCS and DISN, final reports and business plan</li> </ul> </li> <li>\$7.636M Total</li> </ul> |        |       |                                                               |      |      |      |      |                  |            |                  |  |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |        |       |                                                               |      |      |      |            |                  | DATE: March 1996 |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-------|---------------------------------------------------------------|------|------|------|------------|------------------|------------------|---------------------------------------|------|------|------|------|------|------|------|------------|--------------------|--------|-------|-------|--|--|--|--|--------|-----------------------------------|---|--------|--|--|--|--|--|--|-------------------------------------------------------------|--|--|--|--|--|--|--|--------|------------------------------------------|--------|-------|--|--|--|--|--|-------|-----------------------------|--|--|--|--|--|--|--|--------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |        |       | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications |      |      |      |            |                  |                  |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | FY95   | FY96  | FY97                                                          | FY98 | FY99 | FY00 | FY01       | Cost of Complete | Total Cost       |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |
| Project E25 Commercial Satellite Communications Initiatives Follow-On                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | 10.000 | 7.263 | 7.636                                                         | 0    | 0    | 0    | 0          | 0                | 44.899           |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |
| <p><u>Acquisition Strategy:</u> All services and equipment are to be competitively procured.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |        |       |                                                               |      |      |      |            |                  |                  |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |
| <p><u>B. Program Change Summary</u></p> <table> <tr> <td>Previous President's Budget (FY 1996)</td> <td>FY95</td> <td>FY96</td> <td>FY97</td> <td>FY98</td> <td>FY99</td> <td>FY00</td> <td>FY01</td> <td>TOTAL COST</td> </tr> <tr> <td>Appropriated Value</td> <td>10.000</td> <td>8.000</td> <td>8.000</td> <td></td> <td></td> <td></td> <td></td> <td>46.000</td> </tr> <tr> <td>Adjustments to Appropriated Value</td> <td>0</td> <td>- .737</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Adjustments to Budget Year Since FY 1996 President's Budget</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>- .364</td> </tr> <tr> <td>Current Budget Submit/President's Budget</td> <td>10.000</td> <td>7.263</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7.636</td> </tr> <tr> <td>Change Summary Explanation:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>44.899</td> </tr> </table> |        |        |       |                                                               |      |      |      |            |                  |                  | Previous President's Budget (FY 1996) | FY95 | FY96 | FY97 | FY98 | FY99 | FY00 | FY01 | TOTAL COST | Appropriated Value | 10.000 | 8.000 | 8.000 |  |  |  |  | 46.000 | Adjustments to Appropriated Value | 0 | - .737 |  |  |  |  |  |  | Adjustments to Budget Year Since FY 1996 President's Budget |  |  |  |  |  |  |  | - .364 | Current Budget Submit/President's Budget | 10.000 | 7.263 |  |  |  |  |  | 7.636 | Change Summary Explanation: |  |  |  |  |  |  |  | 44.899 |
| Previous President's Budget (FY 1996)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FY95   | FY96   | FY97  | FY98                                                          | FY99 | FY00 | FY01 | TOTAL COST |                  |                  |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |
| Appropriated Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10.000 | 8.000  | 8.000 |                                                               |      |      |      | 46.000     |                  |                  |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |
| Adjustments to Appropriated Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0      | - .737 |       |                                                               |      |      |      |            |                  |                  |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |
| Adjustments to Budget Year Since FY 1996 President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |        |       |                                                               |      |      |      | - .364     |                  |                  |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |
| Current Budget Submit/President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10.000 | 7.263  |       |                                                               |      |      |      | 7.636      |                  |                  |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |
| Change Summary Explanation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |        |       |                                                               |      |      |      | 44.899     |                  |                  |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |
| <p>Funding:: FY96 reduction due to Congressional adjustment to Defense-wide Investment Appropriation.<br/>FY97 reduction due to revised inflation rates.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |        |       |                                                               |      |      |      |            |                  |                  |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |
| <p>Schedule: N/A<br/>Technical: N/A</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |        |       |                                                               |      |      |      |            |                  |                  |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |
| <p><u>C. Other Program Funding Summary:</u> N/A</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |        |       |                                                               |      |      |      |            |                  |                  |                                       |      |      |      |      |      |      |      |            |                    |        |       |       |  |  |  |  |        |                                   |   |        |  |  |  |  |  |  |                                                             |  |  |  |  |  |  |  |        |                                          |        |       |  |  |  |  |  |       |                             |  |  |  |  |  |  |  |        |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                                               |       |       |         |      |      |      |                  | DATE: March 1996 |   |         |  |  |  |         |  |  |  |         |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                         |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------|-------|-------|---------|------|------|------|------------------|------------------|---|---------|--|--|--|---------|--|--|--|---------|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications |       |       |         |      |      |      |                  |                  |   |         |  |  |  |         |  |  |  |         |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                         |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | FY95                                                          | FY96  | FY97  | FY98    | FY99 | FY00 | FY01 | Cost of Complete | Total Cost       |   |         |  |  |  |         |  |  |  |         |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                         |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| Project E25 Commercial Satellite Communications Initiatives Follow-On                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         | 10.000                                                        | 7.263 | 7.636 | 0       | 0    | 0    | 0    | 0                | 44.899           |   |         |  |  |  |         |  |  |  |         |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                         |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>D. Schedule Profile:</b><br/>Fiscal Year actual and planned events by quarter.</p> <table border="0"> <thead> <tr> <th></th> <th colspan="4">FY 1995</th> <th colspan="4">FY 1996</th> <th colspan="4">FY 1997</th> </tr> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>Acquisition Milestones:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Award tri band terminal contracts</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Engineering Milestones:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Award VSAT Terminal</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Award transponder and bandwidth contract</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>T&amp;E milestones:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Validated Bmc/Control</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |         |                                                               |       |       |         |      |      |      |                  |                  |   | FY 1995 |  |  |  | FY 1996 |  |  |  | FY 1997 |  |  |  |  | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | Acquisition Milestones: |  |  |  |  |  |  |  |  |  |  |  |  | Award tri band terminal contracts |  |  |  |  |  |  |  |  |  |  |  |  | Engineering Milestones: |  |  |  |  |  |  |  |  |  |  |  |  | Award VSAT Terminal |  |  |  |  |  |  |  |  |  |  |  |  | Award transponder and bandwidth contract |  |  |  |  |  |  |  |  |  |  |  |  | T&E milestones: |  |  |  |  |  |  |  |  |  |  |  |  | Validated Bmc/Control |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FY 1995 |                                                               |       |       | FY 1996 |      |      |      | FY 1997          |                  |   |         |  |  |  |         |  |  |  |         |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                         |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1       | 2                                                             | 3     | 4     | 1       | 2    | 3    | 4    | 1                | 2                | 3 | 4       |  |  |  |         |  |  |  |         |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                         |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| Acquisition Milestones:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                                                               |       |       |         |      |      |      |                  |                  |   |         |  |  |  |         |  |  |  |         |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                         |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| Award tri band terminal contracts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |                                                               |       |       |         |      |      |      |                  |                  |   |         |  |  |  |         |  |  |  |         |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                         |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| Engineering Milestones:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                                                               |       |       |         |      |      |      |                  |                  |   |         |  |  |  |         |  |  |  |         |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                         |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| Award VSAT Terminal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                                               |       |       |         |      |      |      |                  |                  |   |         |  |  |  |         |  |  |  |         |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                         |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| Award transponder and bandwidth contract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |                                                               |       |       |         |      |      |      |                  |                  |   |         |  |  |  |         |  |  |  |         |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                         |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| T&E milestones:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |                                                               |       |       |         |      |      |      |                  |                  |   |         |  |  |  |         |  |  |  |         |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                         |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| Validated Bmc/Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |                                                               |       |       |         |      |      |      |                  |                  |   |         |  |  |  |         |  |  |  |         |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                         |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                 |                                                                                                                                 | DATE: March 1996 |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07            | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications/E25/<br>COMMERCIAL SATELLITE COMMUNICATIONS INITIATIVES FOLLOW-ON |                  |
| A. <u>Project Cost Breakdown (\$000)</u>                           |                                                                                                                                 |                  |
| Project cost categories                                            |                                                                                                                                 |                  |
|                                                                    | <u>FY95</u>                                                                                                                     | <u>FY96</u>      |
| 1. Travel                                                          | 25                                                                                                                              | 25               |
| 2. Management Support Services                                     | 400                                                                                                                             | 300              |
| 3. Engineering & Technical Services                                | 9,575                                                                                                                           | 6,938            |
| Total                                                              | 10,000                                                                                                                          | 7,263            |
| B. <u>Budget Acquisition History and Planning Information:</u> N/A |                                                                                                                                 |                  |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                               |       |       |       |       |       |       |                  | DATE: March 1996 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications |       |       |       |       |       |       |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | FY95                                                          | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| Project E26 Leading Edge Pilot Information Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 0                                                             | 2.873 | 3.029 | 3.139 | 3.260 | 3.404 | 3.527 | Contig           | Contig           |
| <p>A. <u>Mission Description &amp; Budget Item Justification.</u> (U) This project is not a new start but an evolving functional realignment and represents a breakout from Project E61. Leading Edge Pilot Services are information transport and value added services which are not available from the Defense Information Infrastructure (DII) Utility, and for which customers are willing to assume some of the risk associated with development and applications in command, control, and intelligence for the worldwide DOD user and research communities. This program supports the acquisition and delivery of consolidated advanced technology information services in a maximally competitive environment (as cost effectively as is possible) to customers with operational needs that exceed those capabilities currently available from the DII Utility. The resulting services will be managed in the operational context of the single information utility (DII Utility) operated and maintained by DISA. The DISA/ARPA Advanced Information Technology Services Joint Program Office (AITS-JPO) will integrate advanced technology research and development efforts from ARPA and others, focus the flow of these technologies from R&amp;D to widespread experimental uses, to leading edge utility and from leading edge utility to maximize the potential for migration into the DII and the National Information Infrastructure (NII). The DISA funding under this program element will allow the AITS-JPO to leverage research and development funding and efforts. This project has been moved from PE0302019K to this PE starting in FY96. FY95 accomplishments and plans are described in PE0302019K. FY96 and beyond efforts are reported here.</p> <p>(U) <u>FY 1995 Plans:</u> Described in PE0302019K, Project E61.</p> <p>(U) <u>FY 1996 Plans:</u></p> <ul style="list-style-type: none"> <li>o Monitor candidate information system technologies and capabilities which are still research and development for potential integration into the AITS-JPO Pilot Service portfolio. (\$100K) (Continuing)</li> <li>o Participate, initiate, expedite, or collaborate in Advanced Concepts Technology Demonstrations (ACTD's) in support of leading edge technology services. (\$100K) (Continuing)</li> <li>o Evaluate available candidate Advanced Information Technology (AIT) services versus user requirements and select promising technologies for pilot service. (\$584K) (Continuing)</li> <li>o Develop and coordinate plans and strategies for migration of Leading Edge Services into the DII utility. (\$1,431K) (Continuing)</li> <li>o Migrate video teleconferencing services to the DII utility. (\$150K) (Continuing)</li> <li>o Evaluate and integrate first production key agile security devices for the modeling and simulation and high performance computing users. (\$208K) (Continuing)</li> <li>o Integrate Asynchronous Transfer Mode (ATM) multicast services for the modeling and simulation users. (\$300K)(4Qtr)</li> </ul> <p>\$2,873M Total</p> |  |                                                               |       |       |       |       |       |       |                  |                  |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |       |       |                                      |       |       |       |       |                  | DATE: March 1996 |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|--------------------------------------|-------|-------|-------|-------|------------------|------------------|--|------|------|------|---------------------------------------|-----|-------|-------|--------------------|-------|-------|--|-----------------------------------|---|-------|--|-------------------------------------------------------------|--|--|-------|----------------------------------------------------------------------|---|-------|-------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |       | R-1 ITEM NOMENCLATURE                |       |       |       |       |                  |                  |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |       | PE 0303126K/Long Haul Communications |       |       |       |       |                  |                  |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | FY95  | FY96  | FY97                                 | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| Project E26 Leading Edge Pilot Information Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | 0     | 2.873 | 3.029                                | 3.139 | 3.260 | 3.404 | 3.527 | Contg            | Contg            |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| <p>(U) FY 1997 Plans:</p> <ul style="list-style-type: none"> <li>Monitor candidate information system technologies and capabilities which are still in research and development for potential integration into the AITS-JPO Pilot Service portfolio (\$100K)(4Qtr)</li> <li>Participate, initiate, expedite, or collaborate in Advanced Concepts Technology Demonstrations (ACTD's) in support of leading edge technology services. (\$100K)(4Qtr)</li> <li>Evaluate available candidate AIT services versus user requirements and select promising technologies for pilot service (\$950K)(4Qtr)</li> <li>Develop and coordinate plans and strategies for migration of Leading Edge Services into the DII utility. (\$1,050K)(4Qtr)</li> <li>Migrate selected modeling and simulation services to the DII core utility. (\$450K)(4Qtr)</li> <li>Integrate bandwidth on demand and end to end security pilot services. (\$379K)(4Qtr)</li> </ul> <p>\$3.029M Total</p> |      |       |       |                                      |       |       |       |       |                  |                  |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| <p><u>Acquisition Strategy:</u> Develop and implement statements of work and task orders to support FFRDC and SETA Contracts.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |       |       |                                      |       |       |       |       |                  |                  |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| <p><u>B. Program Change Summary</u></p> <table border="0"> <thead> <tr> <th></th> <th>FY95</th> <th>FY96</th> <th>FY97</th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget (FY 1996)</td> <td>0</td> <td>2.971</td> <td>3.129</td> </tr> <tr> <td>Appropriated Value</td> <td>0</td> <td>2.971</td> <td></td> </tr> <tr> <td>Adjustments to Appropriated Value</td> <td>0</td> <td>-.098</td> <td></td> </tr> <tr> <td>Adjustments to Budget Year Since FY 1996 President's Budget</td> <td></td> <td></td> <td>-.100</td> </tr> <tr> <td>Current Budget Submit/President's Budget Change Summary Explanation:</td> <td>0</td> <td>2.873</td> <td>3.029</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                      |      |       |       |                                      |       |       |       |       |                  |                  |  | FY95 | FY96 | FY97 | Previous President's Budget (FY 1996) | 0   | 2.971 | 3.129 | Appropriated Value | 0     | 2.971 |  | Adjustments to Appropriated Value | 0 | -.098 |  | Adjustments to Budget Year Since FY 1996 President's Budget |  |  | -.100 | Current Budget Submit/President's Budget Change Summary Explanation: | 0 | 2.873 | 3.029 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FY95 | FY96  | FY97  |                                      |       |       |       |       |                  |                  |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| Previous President's Budget (FY 1996)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0    | 2.971 | 3.129 |                                      |       |       |       |       |                  |                  |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| Appropriated Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0    | 2.971 |       |                                      |       |       |       |       |                  |                  |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| Adjustments to Appropriated Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0    | -.098 |       |                                      |       |       |       |       |                  |                  |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| Adjustments to Budget Year Since FY 1996 President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |       | -.100 |                                      |       |       |       |       |                  |                  |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| Current Budget Submit/President's Budget Change Summary Explanation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0    | 2.873 | 3.029 |                                      |       |       |       |       |                  |                  |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| <p><u>Funding:</u> FY96 reduction due to Congressional adjustment to Defense-wide Investment Appropriation.<br/>FY97 reduction due to revised inflation rates.</p> <p><u>Schedule:</u> N/A<br/><u>Technical:</u> N/A</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |       |                                      |       |       |       |       |                  |                  |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| <p><u>C. Other Program Funding Summary:</u></p> <table border="0"> <thead> <tr> <th></th> <th>FY95</th> <th>FY96</th> <th>FY97</th> <th>Total Cost</th> </tr> </thead> <tbody> <tr> <td>O&amp;M</td> <td>0</td> <td>0</td> <td>3.102</td> <td>Contg</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |       |       |                                      |       |       |       |       |                  |                  |  | FY95 | FY96 | FY97 | Total Cost                            | O&M | 0     | 0     | 3.102              | Contg |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FY95 | FY96  | FY97  | Total Cost                           |       |       |       |       |                  |                  |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |
| O&M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0    | 0     | 3.102 | Contg                                |       |       |       |       |                  |                  |  |      |      |      |                                       |     |       |       |                    |       |       |  |                                   |   |       |  |                                                             |  |  |       |                                                                      |   |       |       |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                                                               |       |       |             |       |       |                  |             | DATE: March 1996 |   |   |             |  |  |  |             |  |  |  |             |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                      |     |  |  |  |   |   |   |   |   |   |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------|-------|-------|-------------|-------|-------|------------------|-------------|------------------|---|---|-------------|--|--|--|-------------|--|--|--|-------------|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|-----|--|--|--|---|---|---|---|---|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications |       |       |             |       |       |                  |             |                  |   |   |             |  |  |  |             |  |  |  |             |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                      |     |  |  |  |   |   |   |   |   |   |   |   |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FY95        | FY96                                                          | FY97  | FY98  | FY99        | FY00  | FY01  | Cost of Complete | Total Cost  |                  |   |   |             |  |  |  |             |  |  |  |             |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                      |     |  |  |  |   |   |   |   |   |   |   |   |
| Project E26 Leading Edge Pilot Information Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0           | 2.873                                                         | 3.029 | 3.139 | 3.260       | 3.404 | 3.527 | Contg            | Contg       |                  |   |   |             |  |  |  |             |  |  |  |             |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                      |     |  |  |  |   |   |   |   |   |   |   |   |
| <p>D. Schedule Profile</p> <p>Fiscal Year actual and planned events by quarter.</p> <table border="0"> <tr> <td></td> <td colspan="4"><u>FY95</u></td> <td colspan="4"><u>FY96</u></td> <td colspan="4"><u>FY97</u></td> </tr> <tr> <td></td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>SOW for SETA Support</td> <td colspan="4">N/A</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table> |             |                                                               |       |       |             |       |       |                  |             |                  |   |   | <u>FY95</u> |  |  |  | <u>FY96</u> |  |  |  | <u>FY97</u> |  |  |  |  | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | SOW for SETA Support | N/A |  |  |  | X | X | X | X | X | X | X | X |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>FY95</u> |                                                               |       |       | <u>FY96</u> |       |       |                  | <u>FY97</u> |                  |   |   |             |  |  |  |             |  |  |  |             |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                      |     |  |  |  |   |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1           | 2                                                             | 3     | 4     | 1           | 2     | 3     | 4                | 1           | 2                | 3 | 4 |             |  |  |  |             |  |  |  |             |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                      |     |  |  |  |   |   |   |   |   |   |   |   |
| SOW for SETA Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | N/A         |                                                               |       |       | X           | X     | X     | X                | X           | X                | X | X |             |  |  |  |             |  |  |  |             |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |                      |     |  |  |  |   |   |   |   |   |   |   |   |

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                  |                                                                                                | DATE: March 1996 |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07             | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications/E26 Leading Edge Pilot Info Tech |                  |
| A. <u>Project Cost Breakdown</u>                                    |                                                                                                |                  |
| Project Cost Categories                                             |                                                                                                |                  |
| Modeling & Simulation                                               |                                                                                                |                  |
| Total                                                               |                                                                                                |                  |
| B. <u>Budget Acquisition History and Planning Information</u> : N/A |                                                                                                |                  |

Page 10 of 30

R-1 Shopping List  
UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                               |       |       |       |       |       |       |                  | DATE: March 1996 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications |       |       |       |       |       |       |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | FY95                                                          | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| Project E61 MILSATCOM and Defense Information Infrastructure (DII) Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 0*                                                            | 4.113 | 4.671 | 4.749 | 4.780 | 4.919 | 5.092 | Contig           | Contig           |
| <p>A. Mission Description &amp; Budget Item Justification: (U) *This project has been moved from PE0302019K to this PE starting in FY96. FY95 accomplishments and plans are described in PE0302019K. The rapid evolution of the global military environment is driving a major evolution of the DOD force structure and military operations requiring greater flexibility to meet the global warfighting requirements to rapidly project forces anywhere in the world. This project supports the planning and decision management required to provide responsive communications and information services to support the evolving military missions. The efforts support integrated DOD communications planning and investment strategy including all Military Satellite Communications (MILSATCOM) systems and commercial SATCOM capabilities, and the integrated communications and planning and decision management for the Defense Information Infrastructure (DII). The SATCOM investment strategy and acquisition roadmap provide guidance to the DOD Services, and Defense Agencies for the acquisition and upgrade of MILSATCOM systems and the cost effective acquisition of commercial SATCOM services. The Joint C4I Decision Support Center (JCDSC) is developed and upgraded for the Joint Staff as the single DOD source of validated requirements. This work is essential to achieve the DISA goal of quality information services at an affordable cost through a deliberate decision management process.</p> <p>(U) FY95 Plans: Described in PE0302019K, Project E61.</p> <p>(U) FY96 Plans:</p> <ul style="list-style-type: none"> <li>o JCDSC: Continue upgrading the JCDSC, developing advanced planning tools and databases. (\$690K) (Continuing)</li> <li>o C4I Simulation Integration: Migrate to a common family of models for training, planning and assessment. (\$950K) (Continuing)</li> <li>o C4I/DII Assessment: Provide C4I assessment support to the JWC, and C4I/DII assessment support to DISA and the operational community. (\$709K) (Continuing)</li> <li>o Joint Staff Support: Provide analysis and decision management support to the JS and warfighters in the realization of C4I/TW. (\$519K) (Continuing)</li> <li>o Integrated Network Assessments: Assess military and commercial telecommunications alternatives to resolve programmatic issues. (\$866K) (Continuing)</li> <li>o C4I Model: Develop A DOD-wide C4I simulator to support mission test, training and operational exercises. (\$379K) (Continuing)</li> </ul> <p>\$4.113M Total</p> <p>(U) FY97 Plans:</p> <ul style="list-style-type: none"> <li>o JCDSC: Continue upgrading the JCDSC, developing advanced planning tools and databases. (\$838K) (Continuing)</li> <li>o C4I Simulation Integration: Migrate to a common family of models for training, planning and assessment. (\$800K) (Continuing)</li> </ul> |  |                                                               |       |       |       |       |       |       |                  |                  |

## RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE: March 1996

## APPROPRIATION/BUDGET ACTIVITY

RDT&amp;E, Defense Wide/07

## R-1 ITEM NOMENCLATURE

PE 0303126K/Long Haul Communications

| COST (in millions)                                                          | FY95 | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost |
|-----------------------------------------------------------------------------|------|-------|-------|-------|-------|-------|-------|------------------|------------|
| Project E61 MILSATCOM and Defense Information Infrastructure (DII) Planning | 0*   | 4.113 | 4.671 | 4.749 | 4.780 | 4.919 | 5.092 | Contg            | Contg      |

- o C4I/DII Assessment: Provide C4I assessment support to the JWC, and C4I/DII assessment support to DISA and the operational community. (\$963K) (Continuing)
  - o Joint Staff Support: Provide analysis and decision management support to the JS and warfighters in the realization of C4IFTW. (\$600K) (Continuing)
  - o Integrated Network Assessments: Assess military and commercial telecommunications alternatives to resolve programmatic issues. (\$1,050K) (Continuing)
  - o C4I Model: Develop a DOD-wide C4I simulator to support mission test, training and operational exercises. (\$420K) (Continuing)
- \$4.671M Total

Acquisition Strategy: SETA support contract (CPFF-LOE) was competitively awarded in (Q3) and consists of a base year and four option years. FFRDC support is procured sole source through the sponsoring Service (e.g., the Army for MITRE).

B. Program Change Summary

|                                                             |      |       |       |       |
|-------------------------------------------------------------|------|-------|-------|-------|
| Previous President's Budget (FY 1996)                       | FY95 | FY96  | FY97  | FY97  |
| Appropriated Value                                          | 0    | 4.279 | 4.279 | 4.383 |
| Adjustments to Appropriated Value                           | 0    | 4.279 | 4.279 |       |
| Adjustments to Budget Year Since FY 1996 President's Budget | 0    | 0     | -.166 | .288  |
| Current Budget Submit/President's Budget                    | 0    | 4.113 | 4.113 | 4.671 |

Change Summary Explanation:

Funding: FY96 reduction due to Congressional adjustment to Defense-wide Investment Appropriation.

FY97 reduction due to revised fiscal guidance.

Schedule: N/A

Technical: N/A

\* In the previous President's Budget, funding for this project was in PE0302019K.

C. Other Program Funding Summary

|     |      |       |       |            |
|-----|------|-------|-------|------------|
| O&M | FY95 | FY96  | FY97  | Total Cost |
|     | 0    | 1.060 | 1.655 | Contg      |

Page 12 of 30

|                                                                                      |                                |
|--------------------------------------------------------------------------------------|--------------------------------|
| <p align="center"><b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)</b></p> | <p><b>DATE:</b> March 1996</p> |
|--------------------------------------------------------------------------------------|--------------------------------|

| APPROPRIATION/BUDGET ACTIVITY                                               |  | R-1 ITEM NOMENCLATURE                |       |       |       |       |       |       |                  |            |  |
|-----------------------------------------------------------------------------|--|--------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------|--|
| RDT&E, Defense Wide/07                                                      |  | PE 0303126K/Long Haul Communications |       |       |       |       |       |       |                  |            |  |
| COST (in millions)                                                          |  | FY95                                 | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost |  |
| Project E61 MILSATCOM and Defense Information Infrastructure (DII) Planning |  | 0                                    | 4.113 | 4.671 | 4.749 | 4.780 | 4.919 | 5.092 | Contig           | Contig     |  |

**Fiscal Year actual and planned events by quarter.**

[illegible]

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)             |                                                                              | DATE: March 1996 |
|----------------------------------------------------------------|------------------------------------------------------------------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07        | R-1 ITEM NOMENCLATURE<br>PE 0303126K/ Long Haul Communications/E61/MILSATCOM |                  |
| A. <u>Project Cost Breakdown</u> (\$000)                       |                                                                              |                  |
|                                                                | <u>FY95</u>                                                                  | <u>FY96</u>      |
| Project Cost Categories                                        |                                                                              | <u>FY97</u>      |
| Modeling & Simulation                                          | 0                                                                            | 4,113            |
| Total                                                          | 0                                                                            | 4,671            |
| B. <u>Budget Acquisition History and Planning Information:</u> | N/A                                                                          |                  |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |                                      |       |      |      |      |      | DATE: March 1996 |                  |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------|-------|------|------|------|------|------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  | R-1 ITEM NOMENCLATURE                |       |      |      |      |      |                  |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  | PE 0303126K/Long Haul Communications |       |      |      |      |      |                  |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  | FY95                                 | FY96  | FY97 | FY98 | FY99 | FY00 | FY01             | Cost of Complete | Total Cost |
| Project U16 Secure Video Teleconferencing System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  | 0.717                                | 0.646 | 0    | 0    | 0    | 0    | 0                | 0                | 2.645      |
| <p>A. <u>Mission Description &amp; Budget Item Justification:</u> (U) This project, tasked by Presidential Directive NSDD-304, provides a cost effective, secure, reliable teleconferencing system that is responsive to the urgent operational requirements of the Executive Departments which are involved in the development and implementation of national security policy. This system is designed to emulate face-to-face conferences at the top executive levels for the conduct of highly sensitive business.</p> <p>(U) <u>FY 1995 Plans:</u></p> <ul style="list-style-type: none"> <li>o Begin detailed engineering design, development and prototyping of the hub switch and associated node processors, based on high-level design completed in FY94. (\$486K) (4Qtr)</li> <li>o Perform high-level systems engineering design which will facilitate transition from the Washington Area Wideband System (WAWS) transmission system to a state-of-the-art system. (\$231K) (4Qtr)</li> </ul> <p>\$ .717M Total</p> <p>(U) <u>FY 1996 Plans:</u></p> <ul style="list-style-type: none"> <li>o Continue detailed engineering design, development, and prototyping of the hub switch and associated node processors which was begun in FY95. (\$251K) (4Qtr)</li> <li>o Perform detailed systems engineering design of alternative transmission system for the network, to include utilization of extra bandwidth. (\$220K) (4Qtr)</li> <li>o Perform high-level systems engineering design of expanded secure inter-agency video network, including integration with appropriate external networks. (\$175K) (4Qtr)</li> </ul> <p>\$ .646M Total</p> <p>(U) <u>FY 1997 Plans:</u> This project has transitioned to O&amp;M appropriation.</p> <p><u>Acquisition Strategy:</u> Harris Corporation (competitive award in with 1 base year and 4 option years)</p> |  |  |  |                                      |       |      |      |      |      |                  |                  |            |

Page 15 of 30

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |       |       |                                                               |       |       |            |            | DATE: March 1996 |            |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|-------|---------------------------------------------------------------|-------|-------|------------|------------|------------------|------------|---|------|------|------|------|------|------|------|----------|------------|----------------------|------|---|------|------|------|------|------|------------|------------|-----|------|-------|-------|-------|-------|---------------------|-------|------------|------------|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|-----------------|---|--|--|--|--|--|--|--|--|--|--|--|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |       |       |       | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications |       |       |            |            |                  |            |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |       |       |                                                               |       |       |            |            |                  |            |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       | FY95  | FY96  | FY97                                                          | FY98  | FY99  | FY00       | FY01       | Cost of Complete | Total Cost |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
| Project U16 Secure Video Teleconferencing System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |       | 0.717 | 0.646 | 0                                                             | 0     | 0     | 0          | 0          | 0                | 2.645      |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>B. Program Change Summary:</b></p> <p>Previous President's Budget (FY 1996) .717</p> <p>Appropriated Value .717</p> <p>Adjustments to Appropriated Value -.065</p> <p>Adjustments to Budget Year Since FY 1996 President's Budget -.721</p> <p>Current Budget Submit/President's Budget .717</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |       |       |                                                               |       |       |            |            |                  |            |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>Change Summary Explanation:</b></p> <p>Funding: FY96 reduction due to Congressional adjustment to Defense-wide Investment Appropriation.</p> <p>FY97: Project transitioned to O&amp;M appropriation.</p> <p>Schedule: N/A</p> <p>Technical: N/A</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |       |       |                                                               |       |       |            |            |                  |            |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>C. Other Program Funding Summary:</b></p> <table border="0"> <thead> <tr> <th></th> <th>FY95</th> <th>FY96</th> <th>FY97</th> <th>FY98</th> <th>FY99</th> <th>FY00</th> <th>FY01</th> <th>To Compl</th> <th>Total Cost</th> </tr> </thead> <tbody> <tr> <td>Procurement Line P-1</td> <td>.258</td> <td>0</td> <td>.250</td> <td>.241</td> <td>.271</td> <td>.282</td> <td>.293</td> <td>Continuing</td> <td>Continuing</td> </tr> <tr> <td>O&amp;M</td> <td>.900</td> <td>1.089</td> <td>3.234</td> <td>1.828</td> <td>2.242</td> <td>2.279</td> <td>2.520</td> <td>Continuing</td> <td>Continuing</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |       |       |                                                               |       |       |            |            |                  |            |   | FY95 | FY96 | FY97 | FY98 | FY99 | FY00 | FY01 | To Compl | Total Cost | Procurement Line P-1 | .258 | 0 | .250 | .241 | .271 | .282 | .293 | Continuing | Continuing | O&M | .900 | 1.089 | 3.234 | 1.828 | 2.242 | 2.279               | 2.520 | Continuing | Continuing |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FY95 | FY96  | FY97  | FY98  | FY99                                                          | FY00  | FY01  | To Compl   | Total Cost |                  |            |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
| Procurement Line P-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | .258 | 0     | .250  | .241  | .271                                                          | .282  | .293  | Continuing | Continuing |                  |            |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
| O&M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .900 | 1.089 | 3.234 | 1.828 | 2.242                                                         | 2.279 | 2.520 | Continuing | Continuing |                  |            |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>D. Schedule Profile:</b></p> <p>Fiscal Year actual and planned events by quarter.</p> <table border="0"> <thead> <tr> <th></th> <th colspan="4">FY95</th> <th colspan="4">FY96</th> <th colspan="4">FY97</th> </tr> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>Contract Milestones</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Contract DCA100-93-C-0146</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Contract Awarded (basic year)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4 Options Years</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |      |       |       |       |                                                               |       |       |            |            |                  |            |   | FY95 |      |      |      | FY96 |      |      |          | FY97       |                      |      |   |      | 1    | 2    | 3    | 4    | 1          | 2          | 3   | 4    | 1     | 2     | 3     | 4     | Contract Milestones |       |            |            |  |  |  |  |  |  |  |  |  | Contract DCA100-93-C-0146 |  |  |  |  |  |  |  |  |  |  |  |  | Contract Awarded (basic year) |  |  |  |  |  |  |  |  |  |  |  |  | 4 Options Years | X |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FY95 |       |       |       | FY96                                                          |       |       |            | FY97       |                  |            |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1    | 2     | 3     | 4     | 1                                                             | 2     | 3     | 4          | 1          | 2                | 3          | 4 |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
| Contract Milestones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |       |       |                                                               |       |       |            |            |                  |            |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
| Contract DCA100-93-C-0146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |       |       |                                                               |       |       |            |            |                  |            |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
| Contract Awarded (basic year)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |       |       |       |                                                               |       |       |            |            |                  |            |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |
| 4 Options Years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | X    |       |       |       |                                                               |       |       |            |            |                  |            |   |      |      |      |      |      |      |      |          |            |                      |      |   |      |      |      |      |      |            |            |     |      |       |       |       |       |                     |       |            |            |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |  |  |                 |   |  |  |  |  |  |  |  |  |  |  |  |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                        |   |                                                               |       |           |      |      |      |           |                  | DATE: March 1996 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------|-------|-----------|------|------|------|-----------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                    |   | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications |       |           |      |      |      |           |                  |                  |
| COST (in millions)                                                                                                                                                                                         |   | FY95                                                          | FY96  | FY97      | FY98 | FY99 | FY00 | FY01      | Cost of Complete | Total Cost       |
| Project U16 Secure Video Teleconferencing System                                                                                                                                                           |   | 0.717                                                         | 0.646 | 0         | 0    | 0    | 0    | 0         | 0                | 2.645            |
| <p>Other Program Events</p> <p>Engr. Design of new Hub Switch X</p> <p>High Level Design of New Transmission System X</p> <p>Prototype new Hub Switch X</p> <p>High Level Design of Expanded Network X</p> |   |                                                               |       |           |      |      |      |           |                  |                  |
|                                                                                                                                                                                                            | 1 | FY95<br>2 3                                                   | 4     | FY96<br>3 | 4    | 1    | 2    | FY97<br>3 | 4                |                  |

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                 |                                                                         | DATE: March 1996 |
|--------------------------------------------------------------------|-------------------------------------------------------------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07            | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications/U16/ SVTS |                  |
| A. <u>Project Cost Breakdown</u> (\$000)                           |                                                                         |                  |
| Project Cost Categories                                            |                                                                         |                  |
| a. Engineering and Technical Services                              |                                                                         |                  |
|                                                                    | <u>FY95</u>                                                             | <u>FY96</u>      |
|                                                                    | 717                                                                     | 646              |
| Total                                                              | 717                                                                     | 646              |
| B. <u>Budget Acquisition History and Planning Information:</u> N/A |                                                                         |                  |
|                                                                    | <u>FY97</u>                                                             |                  |
|                                                                    | 0                                                                       |                  |
|                                                                    | 0                                                                       |                  |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |                                      |       |       |      |      |      | DATE: March 1996 |                  |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------|-------|-------|------|------|------|------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  | R-1 ITEM NOMENCLATURE                |       |       |      |      |      |                  |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  | PE 0303126K/Long Haul Communications |       |       |      |      |      |                  |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  | FY95                                 | FY96  | FY97  | FY98 | FY99 | FY00 | FY01             | Cost of Complete | Total Cost |
| Project H20 Defense Information System Network (DISN) Acquisition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  | 1.380                                | 2.131 | 7.558 | 0    | 0    | 0    | 0                | 0                | 13.307     |
| <p>A. Mission Description &amp; Budget Item Justification: DISN provides the Warfighters and the warfighting Commanders in Chief (CINCs), Joint Task Force (JTF) Commanders and Combined Task Force (CTF) Commanders with a robust C4I information transfer infrastructure. This infrastructure is the only subset of the Defense Information Infrastructure (DII) primarily providing transport. DISN will provide the Warfighters with U.S. Government controlled, secure; switched voice and data; imagery, video teleconferencing; and dedicated point-to-point connectivity. It directly supports national defense C4I decision support requirements, Corporate Information Management (CIM) functional businesses, and U.S. efforts to maintain the world-wide lead in defensive information warfare. This project supports the acquisition of the DISN Services for CONUS, Hawaii Information Transfer System (HITS), Deployable, Pacific and Europe.</p> <p>(U) FY 1995 Accomplishments</p> <ul style="list-style-type: none"> <li>o Provide engineering support for the development of the DISN CONUS acquisition support. (\$672K) (Completed)</li> <li>o Assess user requirements and provide engineering support for HITS. (\$689K) (Completed)</li> <li>o Provide engineering support in the development of the DISA Network/System Management requirements. (\$19K) (Completed)</li> </ul> <p>\$1.380M Total</p> <p>(U) FY 1996 Plans:</p> <ul style="list-style-type: none"> <li>o Provide acquisition technical support to CONUS (\$272K) (Continuing)</li> <li>o Provide Personal Communications Systems (PCS) support (\$172K) (Continuing)</li> <li>o Perform ITSDN Testing to Deployed (\$208K) (Continuing)</li> <li>o Develop Systems Design OCONUS (Pacific &amp; Europe) (\$479K) (Continuing)</li> <li>o Work with NSA/CONDOR for MSS security architecture (\$1,000K) (2nd Qtr)</li> </ul> <p>\$2.131M Total</p> <p>(U) FY 1997 Plans:</p> <ul style="list-style-type: none"> <li>o Acquire initial number of Handsets, Security Sleeves &amp; FORTEZZA Cards (\$2,907K)(Continuing)</li> <li>o Demonstrate the capability to support a Joint Task Force deployed anywhere in the world with high bandwidth communications over commercial transoceanic fiber optics cables (\$4,651K). (Continuing)</li> <li>ooConduct an Advanced concept Technology Demonstration to expand fiber optics links from existing commercial cable heads to newly established cable heads within several days on a shoreline where the JTF would be deployed.</li> <li>ooDevelop strategy to include DOD bandwidth surge capabilities in future commercial transoceanic cable laying projects.</li> <li>ooDevelop Concept of Operations for expanding transoceanic fiber based communication infrastructure inland where a high bandwidth infrastructure does not exist.</li> <li>ooDefine technology requirements to rapidly deploy a fiber based global grid for industry to include in future R&amp;D programs.</li> </ul> <p>\$7.558M Total</p> |  |  |  |                                      |       |       |      |      |      |                  |                  |            |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                      |  |       |           |           |                                      |      |      |      |                  | DATE: March 1996 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|-----------|-----------|--------------------------------------|------|------|------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                            |  |       |           |           | R-1 ITEM NOMENCLATURE                |      |      |      |                  |                  |
| RDT&E, Defense Wide/07                                                                                                                                                                   |  |       |           |           | PE 0303126K/Long Haul Communications |      |      |      |                  |                  |
| COST (in millions)                                                                                                                                                                       |  | FY95  | FY96      | FY97      | FY98                                 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost       |
| Project H20 Defense Information System Network (DISN) Acquisition                                                                                                                        |  | 1.380 | 2.131     | 7.558     | 0                                    | 0    | 0    | 0    | 0                | 13.307           |
| <b>Acquisition Strategy:</b><br>FY95: FFRDC Support (MITRE), AT&T contract 3rd option year of 4 options (competitive contract)<br>FY96: FFRDC Support (MITRE), JITC Support<br>FY97: TBD |  |       |           |           |                                      |      |      |      |                  |                  |
| <b>B. Program Change Summary.</b>                                                                                                                                                        |  |       |           |           |                                      |      |      |      |                  |                  |
| Previous President's Budget (FY 1996)                                                                                                                                                    |  |       | FY95      | FY96      | FY97                                 | FY98 | FY99 | FY00 | FY01             | Total Cost       |
| Appropriated Value                                                                                                                                                                       |  |       | 1.843     | 1.244     | 1.244                                | 0    |      |      |                  | 6.212            |
| Adjustments to Appropriated Value                                                                                                                                                        |  |       | 1.843     | 1.244     | .887                                 |      |      |      |                  |                  |
| Adjustments to Budget Year Since FY 1996 President's Budget                                                                                                                              |  |       | -.463     |           |                                      |      |      |      |                  |                  |
| Current Budget Submit/President's Budget                                                                                                                                                 |  |       | 1.380     | 2.131     | 7.558                                |      |      |      |                  | 13.307           |
| Change Summary Explanation:                                                                                                                                                              |  |       |           |           |                                      |      |      |      |                  |                  |
| Funding: FY95 and FY96 adjustments due to below threshold reprogrammings.<br>FY97 change due to program adjustment.                                                                      |  |       |           |           |                                      |      |      |      |                  |                  |
| Schedule: N/A                                                                                                                                                                            |  |       |           |           |                                      |      |      |      |                  |                  |
| Technical: N/A                                                                                                                                                                           |  |       |           |           |                                      |      |      |      |                  |                  |
| <b>C. Other Program Funding Summary</b>                                                                                                                                                  |  |       |           |           |                                      |      |      |      |                  |                  |
| O&M                                                                                                                                                                                      |  |       | FY95      | FY96      | FY97                                 |      |      |      |                  | Total Cost       |
| DBOF                                                                                                                                                                                     |  |       | \$7,661   | \$4,930   | \$8,734                              |      |      |      |                  | Contg            |
|                                                                                                                                                                                          |  |       | \$367,000 | \$369,000 | \$261,000                            |      |      |      |                  | Contg            |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)               |  |         |                                                               |       |       |      |      |      |      |                  | DATE: March 1996 |
|-------------------------------------------------------------------|--|---------|---------------------------------------------------------------|-------|-------|------|------|------|------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07           |  |         | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications |       |       |      |      |      |      |                  |                  |
| COST (in millions)                                                |  |         | FY95                                                          | FY96  | FY97  | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost       |
| Project H20 Defense Information System Network (DISN) Acquisition |  |         | 1.380                                                         | 2.131 | 7.558 | 0    | 0    | 0    | 0    | 0                | 13.307           |
| D. Schedule Profile                                               |  |         |                                                               |       |       |      |      |      |      |                  |                  |
| (U) FY 1995                                                       |  | 1st Qtr |                                                               |       |       |      |      |      |      |                  |                  |
| MITRE Award                                                       |  | 1st Qtr |                                                               |       |       |      |      |      |      |                  |                  |
| SRI Award                                                         |  | 1st Qtr |                                                               |       |       |      |      |      |      |                  |                  |
| AT&T Option Award                                                 |  | 1st Qtr |                                                               |       |       |      |      |      |      |                  |                  |
| Northern Telecomm Award                                           |  | 3rd Qtr |                                                               |       |       |      |      |      |      |                  |                  |
| (U) FY 1996                                                       |  | 1st Qtr |                                                               |       |       |      |      |      |      |                  |                  |
| MITRE Award                                                       |  | 1st Qtr |                                                               |       |       |      |      |      |      |                  |                  |
| JITC Award                                                        |  | 2nd Qtr |                                                               |       |       |      |      |      |      |                  |                  |
| NSA/CONDOR Award                                                  |  | TBD     |                                                               |       |       |      |      |      |      |                  |                  |
| Global Fiber/TAC Interface Contract Awd                           |  |         |                                                               |       |       |      |      |      |      |                  |                  |
| (U) FY 1997                                                       |  | TBD     |                                                               |       |       |      |      |      |      |                  |                  |
| NSA/CONDOR Award                                                  |  | TBD     |                                                               |       |       |      |      |      |      |                  |                  |
| Global Fiber/TAC Interface Contract Awd                           |  |         |                                                               |       |       |      |      |      |      |                  |                  |

Page 21 of 30

Page 21 of 30

UNCLASSIFIED

85

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                 |                                                  |                                |                               |                          |                                                                                    |                |                |                |                       | DATE: March 1996 |  |
|--------------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------|--------------------------|------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------------|------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07            |                                                  |                                |                               |                          | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications/H20 DISN Acquisition |                |                |                |                       |                  |  |
| A. <u>Project Cost Breakdown</u> (\$000)                           |                                                  |                                |                               |                          | FY95                                                                               | FY96           | FY97           |                |                       |                  |  |
| Engineering and Technical Services                                 |                                                  |                                |                               |                          | 1,380                                                                              | 2,131          | 7,558          |                |                       |                  |  |
| Total                                                              |                                                  |                                |                               |                          | 1,380                                                                              | 2,131          | 7,558          |                |                       |                  |  |
| B. <u>Budget Acquisition History and Planning Information:</u> N/A |                                                  |                                |                               |                          |                                                                                    |                |                |                |                       |                  |  |
| Contractor or<br>Government<br>Performing<br>Activity              | Contract<br>Method/Type<br>or Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Total<br>Prior To<br>FY95                                                          | Budget<br>FY95 | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete | Total<br>Program |  |
| Product Development Organizations                                  |                                                  |                                |                               |                          |                                                                                    |                |                |                |                       |                  |  |
| MITRE                                                              | MIPR                                             | 01 Oct 94                      | 2284                          | 2284                     | 0                                                                                  | 1361           | 923            | 0              | 0                     | 2284             |  |
| All other contract                                                 | MIPR/PR or<br>Contract Mods                      | 01 Oct 94                      | 11023                         | 11023                    | 2238                                                                               | 19             | 1208           | 7558           | 0                     | 11023            |  |
| Subtotal Contracts                                                 |                                                  |                                |                               |                          | 2238                                                                               | 1380           | 2131           | 7558           |                       | 13307            |  |
| In House Engineering & Technical Support                           |                                                  |                                |                               |                          |                                                                                    |                |                |                |                       |                  |  |
| Subtotal In-House                                                  |                                                  |                                |                               |                          |                                                                                    |                |                |                |                       |                  |  |
| TOTAL MANAGEMENT AND SUPPORT                                       |                                                  |                                |                               |                          |                                                                                    |                |                |                |                       |                  |  |

Page 22 of 30

Page 22 of 30

R-1 Shopping List  
UNCLASSIFIED

86

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |       |      |                                                               |      |      |      |                  | DATE: March 1996 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|-------|------|---------------------------------------------------------------|------|------|------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |       |      | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications |      |      |      |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | FY95  | FY96  | FY97 | FY98                                                          | FY99 | FY00 | FY01 | Cost of Complete | Total Cost       |
| Project H80 Defense Message System (DMS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 2.904 | 2.589 | 0*   | 0                                                             | 0    | 0    | 0    | Contg            | Contg            |
| <p><b>A. Mission Description &amp; Budget Item Justification:</b> The purpose of this project is to provide system engineering to ensure that the Joint Staff (JS) and OSD (C3D) validated messaging requirements are satisfied through the use of a COTS-based, multi-level secure messaging and directory service. The DMS provides the defense community with a more interoperable, cost effective messaging/directory service than that which is in place today. Current support is focused on developing secure messaging/directory/management services through requirements definition and refinement; target component Developmental, Initial and Final Operational Test and Evaluation (DT&amp;E, IOT&amp;E and FOT&amp;E); developing transitional interoperability requirements and components/services; technology insertion and service demonstrations; and influencing industry to include DMS features as part of their standard product offerings. * This project is funded in PE0303129K beginning in FY1997.</p> <p>(U) FY 1995 Accomplishments:</p> <ul style="list-style-type: none"> <li>o Performed engineering in support of the DMS-GOSIP acquisition to include messaging, directory, and service management services. (\$90K) (4 Qtr)</li> <li>o Supported topology design/development, network sizing, planning, and phasing for the DMS network. (\$300K) (Continuing)</li> <li>o Performed transition planning for both the unclassified but sensitive and classified DMS, including tactical users, special DMS components (e.g. MFD), and integration with MISSI. (\$1134K) (Cont.)</li> <li>o Evolved Proof-of-Concept (POC) network and DMS testbeds into Technology Insertion laboratory and demonstration capability. (\$380K) (Continuing)</li> <li>o Supported DMS Test and Evaluation (T&amp;E) effort including development of test criteria, review of test plans/procedures, and observation and analysis of POC test results. (\$350K) (4 Qtr)</li> <li>o Developed and promoted DOD/DMS requirements and positions on data communications protocol issues surfacing via military and civilian, national and international standards fora. (\$650K) (Cont.)</li> </ul> <p>\$2.904M Total</p> <p>(U) FY 1996 Plans:</p> <ul style="list-style-type: none"> <li>o Redesign DMS Target Architecture and Implementation Strategy (TAIS) to reflect changes in security products/solutions, additional definition of JTF and tactical user/environment, and program milestones. Work with DMS vendor to finalize initial topology, design, network sizing, planning, and phasing for the networks, including DISN transport. (\$716K) (Cont.)</li> <li>o Support DMS Test and Evaluation (T &amp; E) efforts including finalization of Compliance Definition, Site Acceptance Recommendations, and observation, analysis/evaluation of IOT&amp;E test execution. (\$225K) (Cont.)</li> <li>o Develop and promote DOD/DMS requirements and positions on data communications protocol issues via military and civilian, national and international standards fora. Feeds into this effort include participation in JWID, EC/EDI, and other integration/demonstration efforts. (\$1108K) (Cont.)</li> <li>o Develop user registration strategy/plan, finalize management staffing analysis for LCC, refinement of management concepts via management capability prototyping. (\$540K) (Cont.)</li> </ul> <p>\$2.589M Total</p> |  |       |       |      |                                                               |      |      |      |                  |                  |



| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)     |                    |                                                               |       |      |      |      |      |      |                  | DATE: March 1996 |
|---------------------------------------------------------|--------------------|---------------------------------------------------------------|-------|------|------|------|------|------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07 |                    | R-1 ITEM NOMENCLATURE<br>PE 0303126K/Long Haul Communications |       |      |      |      |      |      |                  |                  |
|                                                         | COST (in millions) | FY95                                                          | FY96  | FY97 | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost       |
| Project H80 Defense Message System                      |                    | 2.904                                                         | 2.589 | 0    | 0    | 0    | 0    | 0    | Contig           | Contig           |
| <b>C. Other Program Funding Summary</b>                 |                    |                                                               |       |      |      |      |      |      |                  |                  |
| Procurement/PE 0303126K – Defense Message System        |                    | FY95                                                          | FY96  | FY97 | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost       |
| O&M/PE 0303126K – Defense Message System                |                    | 20,000                                                        | 0     |      |      |      |      |      | 20,000           | 20,000           |
|                                                         |                    | 10,000                                                        | 0     |      |      |      |      |      | 0                | 14,234           |
| <b>D. Schedule Profile</b>                              |                    |                                                               |       |      |      |      |      |      |                  |                  |
| (U) FY 1995                                             |                    |                                                               |       |      |      |      |      |      |                  |                  |
| Acquisition Milestones                                  |                    |                                                               |       |      |      |      |      |      |                  |                  |
| Pre-IPR (DISA Internal) (1 Qtr)                         |                    |                                                               |       |      |      |      |      |      |                  |                  |
| IPR-MAISRC (MS II) (1 Qtr)                              |                    |                                                               |       |      |      |      |      |      |                  |                  |
| DMS Contract Award (4 Qtr)                              |                    |                                                               |       |      |      |      |      |      |                  |                  |
| Engineering Milestones                                  |                    |                                                               |       |      |      |      |      |      |                  |                  |
| ACP 133 Framework (2 Qtr)                               |                    |                                                               |       |      |      |      |      |      |                  |                  |
| DMS Initial Fielding and Topology Plans (4 Qtr)         |                    |                                                               |       |      |      |      |      |      |                  |                  |
| JWID '95 (4 Qtr)                                        |                    |                                                               |       |      |      |      |      |      |                  |                  |
| (U) FY 1996                                             |                    |                                                               |       |      |      |      |      |      |                  |                  |
| Acquisition Milestones                                  |                    |                                                               |       |      |      |      |      |      |                  |                  |
| Pre-MAISRC (DISA Internal) (2 Qtr)                      |                    |                                                               |       |      |      |      |      |      |                  |                  |
| MAISRC (MS III) (3 Qtr)                                 |                    |                                                               |       |      |      |      |      |      |                  |                  |
| Engineering Milestones                                  |                    |                                                               |       |      |      |      |      |      |                  |                  |
| TAIS Redesign (1 Qtr)                                   |                    |                                                               |       |      |      |      |      |      |                  |                  |
| API Standard (1 Qtr)                                    |                    |                                                               |       |      |      |      |      |      |                  |                  |
| EC/EDI Capabilities Report (2 Qtr)/Test Plan (3 Qtr)    |                    |                                                               |       |      |      |      |      |      |                  |                  |
| DMS Security Architecture (classified) (3 Qtr)          |                    |                                                               |       |      |      |      |      |      |                  |                  |
| Tactical Standardized Profile (draft) (3 Qtr)           |                    |                                                               |       |      |      |      |      |      |                  |                  |

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)     |                                         |                          |                         |                    |                                               |             |             |                    |               | DATE: March 1996 |
|--------------------------------------------------------|-----------------------------------------|--------------------------|-------------------------|--------------------|-----------------------------------------------|-------------|-------------|--------------------|---------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                          |                                         |                          |                         |                    | R-1 ITEM NOMENCLATURE                         |             |             |                    |               |                  |
| RDT&E, Defense Wide/07                                 |                                         |                          |                         |                    | PE 0303126K/ Long Haul Communications/H80/DMS |             |             |                    |               |                  |
| A. Project Cost Breakdown (\$000)                      |                                         |                          |                         |                    | FY95                                          | FY96        | FY97        |                    |               |                  |
| Project Cost Categories                                |                                         |                          |                         |                    |                                               |             |             |                    |               |                  |
| a. Engineering and Technical Services                  |                                         |                          |                         |                    | 2,904                                         | 2,589       | 0           |                    |               |                  |
| Total                                                  |                                         |                          |                         |                    | 2,904                                         | 2,589       | 0           |                    |               |                  |
| B. Budget Acquisition History and Planning Information |                                         |                          |                         |                    |                                               |             |             |                    |               |                  |
| Contractor or Government Performing Activity           | Contract Method/Type or Funding Vehicle | Award or Obligation Date | Performing Activity EAC | Project Office EAC | Budget FY95                                   | Budget FY96 | Budget FY97 | Budget To Complete | Total Program |                  |
| Product Development Organizations                      |                                         |                          |                         |                    |                                               |             |             |                    |               |                  |
| Booz-Allen                                             | MIPR and/or PR 15 Nov 94                |                          | 3697                    | 3697               | 834                                           | 1022        | 0           | 3697               | Continuing    |                  |
| All other contracts                                    |                                         |                          | 330                     |                    | 330                                           | 0           | 0           |                    |               |                  |
| Support and Management Organizations                   |                                         |                          |                         |                    |                                               |             |             |                    |               |                  |
| MITRE                                                  | MIPR 01 Oct 94                          |                          | 13005                   | 13005              | 1740                                          | 1567        | 0           | 13005              | Continuing    |                  |
|                                                        |                                         |                          | 0                       | 0                  | 0                                             | 0           | 0           | 0                  |               |                  |
| All Other Contracts                                    |                                         |                          |                         |                    |                                               |             |             |                    |               |                  |
| None.                                                  |                                         |                          |                         |                    |                                               |             |             |                    |               |                  |
| Subtotal Contracts                                     |                                         |                          |                         |                    | 2904                                          | 2589        |             |                    |               |                  |
| In House Engineering & Technical Support               |                                         |                          |                         |                    |                                               |             |             |                    |               |                  |
| Subtotal In-House                                      |                                         |                          |                         |                    |                                               |             |             |                    |               |                  |
| TOTAL MANAGEMENT AND SUPPORT                           |                                         |                          |                         |                    |                                               |             |             |                    |               |                  |

Page 26 of 30

Page 26 of 30

R-1 Shopping List  
UNCLASSIFIED

90

## RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE: March 1996

| APPROPRIATION/BUDGET ACTIVITY                   |                    | R-1 ITEM NOMENCLATURE                |       |       |       |       |       |       |                  |            |
|-------------------------------------------------|--------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------|
| RDT&E, Defense Wide/07                          |                    | PE 0303126K/Long Haul Communications |       |       |       |       |       |       |                  |            |
|                                                 | COST (in millions) | FY95                                 | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost |
| Project W90 White House Situation Support Staff |                    | 0.410                                | 0.445 | 0.467 | 0.464 | 0.459 | 0.473 | 0.488 | Contg            | Contg      |

**A. Mission Description & Budget Item Justification:**

This project ensures that full level crisis management capabilities are provided to the President, Vice President, the National Security Advisor and his staff. This effort emphasizes information exchange and display and procedures. This project is part of the National Security Information and Situation Management System (NSI & SMS) effort.

- (U) FY 1995 Accomplishments:
  - o Begin research and development into Decision Support Systems for the White House Situation Room. (\$410K) (Cont)
- (U) FY 1996 Plans:
  - o Continue development of Decision Support Systems for the White House Situation Room. (\$445K) (Cont)
- (U) FY 1997 Plans:
  - o Continue development of Decision Support Systems for the White House Situation Room. (\$467K) (Cont)

## RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE: March 1996

| APPROPRIATION/BUDGET ACTIVITY                           |  | R-1 ITEM NOMENCLATURE                |      |      |      |      |      |      |                  |            |
|---------------------------------------------------------|--|--------------------------------------|------|------|------|------|------|------|------------------|------------|
| RD T&E, Defense Wide/07                                 |  | PE 0303126K/Long Haul Communications |      |      |      |      |      |      |                  |            |
| COST (in millions)                                      |  | FY95                                 | FY96 | FY97 | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost |
| Project W90 White House Situation Support Staff (WHSSS) |  | .410                                 | .445 | .467 | .464 | .459 | .473 | .488 | Contg            | Contg      |

## Previous President's Budget (FY 1996)

Appropriated Value

### Adjustments to Budget Year Since FY 1996 President's Budget

### Adjustments to Appropriated Value

Current Budget Submit/President's Budget

**Change Summary Explanation:**

**FY95**

**410**

**.410**

- 
- 
- 
- 

0

**FY96**

**.483**

**.483**

...

**.038**

FY97

**482**

**.015**

2

**Funding: FY96 reduction due to Congressional adjustment to Defense-wide Investment Appropriation.**

**FY97 reduction due to revised inflation rates.**

**Schedule:** N/A

Technical: N/A

### **C. Other Program Funding Summary**

|                      | <u>FY95</u> | <u>FY96</u> | <u>FY97</u> | <u>To Complete</u> | <u>Total Cost</u> |
|----------------------|-------------|-------------|-------------|--------------------|-------------------|
| Procurement Line P-1 | 1,454       | 2,260       | 0           | 0                  | 4,660             |
| O&M                  | 2,260       | 2,806       | 4,653       | Conting            | Conting           |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                             |  |                                                                |      |      |      |      |      |      |      | DATE: March 1996 |
|-----------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------|------|------|------|------|------|------|------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                         |  | R-1 ITEM NOMENCLATURE<br>PE 0303126K/ Long Haul Communications |      |      |      |      |      |      |      |                  |
| COST (in millions)                                                                                              |  |                                                                | FY95 | FY96 | FY97 | FY98 | FY99 | FY00 | FY01 | Total Cost       |
| Project W90 White House Situation Support Staff (WHSSS)                                                         |  |                                                                | .410 | .445 | .467 | .464 | .459 | .473 | .488 | Contg            |
| D. <u>Schedule Profile</u>                                                                                      |  |                                                                |      |      |      |      |      |      |      |                  |
| (U) FY 1995                                                                                                     |  |                                                                |      |      |      |      |      |      |      |                  |
| Engineering Milestones:                                                                                         |  |                                                                |      |      |      |      |      |      |      |                  |
| Begin research and development into Decision Support Systems for the White House Situation Room. (2nd qtr FY95) |  |                                                                |      |      |      |      |      |      |      |                  |
| (U) FY 1996                                                                                                     |  |                                                                |      |      |      |      |      |      |      |                  |
| T&E Milestones:                                                                                                 |  |                                                                |      |      |      |      |      |      |      |                  |
| Continue development of Decision Support Systems for the White House Situation Room. (3rd qtr FY96)             |  |                                                                |      |      |      |      |      |      |      |                  |
| (U) FY 1997                                                                                                     |  |                                                                |      |      |      |      |      |      |      |                  |
| Contract Milestones:                                                                                            |  |                                                                |      |      |      |      |      |      |      |                  |
| Contract/Study to be delivered (3rd qtr FY97)                                                                   |  |                                                                |      |      |      |      |      |      |      |                  |

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                 |                                                                          | DATE: March 1996 |
|--------------------------------------------------------------------|--------------------------------------------------------------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07            | R-1 ITEM NOMENCLATURE<br>PE 0303126K/ Long Haul Communications/W90/WHSSS |                  |
| A. <u>Project Cost Breakdown</u> (\$000)                           |                                                                          |                  |
| Project Cost Categories                                            |                                                                          |                  |
| a. Engineering and Technical Services                              |                                                                          |                  |
|                                                                    | <u>FY95</u>                                                              | <u>FY96</u>      |
|                                                                    | 410                                                                      | 445              |
|                                                                    |                                                                          | <u>FY97</u>      |
|                                                                    |                                                                          | 467              |
| B. <u>Budget Acquisition History and Planning Information:</u> N/A |                                                                          |                  |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |       |       |       |                                                                                           |       |       |                  |            | DATE: March 1996 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------------------------------------------------------------------------------------------|-------|-------|------------------|------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |       |       |       | R-1 ITEM NOMENCLATURE<br>Support of the National Communication System (NCS)/P.E. 0303127K |       |       |                  |            |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FY95  | FY96  | FY97  | FY98  | FY99                                                                                      | FY00  | FY01  | Cost to Complete | Total Cost |                  |
| Total 0303127K Cost                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.229 | 3.733 | 3.910 | 4.570 | 4.571                                                                                     | 4.534 | 5.394 | Cont.            | Cont.      |                  |
| Enhanced Satellite Capability/N092                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .980  | .499  | .479  | .519  | .421                                                                                      | .421  | 1.383 | Cont.            | Cont.      |                  |
| Interoperability/N088                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.319 | 1.544 | 1.507 | 1.584 | 1.640                                                                                     | 1.603 | 1.501 | Cont.            | Cont.      |                  |
| Network Security/N094                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | .495  | .499  | .503  | .521  | .525                                                                                      | .525  | .525  | Cont.            | Cont.      |                  |
| Advanced Intelligent Network/N091                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.435 | 1.191 | 1.421 | 1.946 | 1.985                                                                                     | 1.985 | 1.985 | Cont.            | Cont.      |                  |
| <p><b>A. Mission Description and Budget Item Justification</b><br/>           This program element supports Executive Order 12472 of 3 April 1984 which assigns the NCS the mission of assisting the President, the National Security Council, the Office of Science and Technology Policy, and the Office of Management and Budget, in exercising their wartime and non-wartime telecommunications functions and responsibilities, and coordinating the planning for, and provisioning of, National Security and Emergency Preparedness (NS/EP) telecommunications for the federal government under all circumstances. To attain this objective, there are several National Security Decision Directives which provide additional guidance to the NCS which require that initiatives be developed that will improve the survivability and interoperability of the commercial telecommunications systems that support national security and emergency preparedness requirements, enhance the survivability and endurance of U.S. commercial satellites, and provide communications support for Government agencies which have responsibilities to carry out their essential functions in any emergency. Additionally, this program element will support programs which will help to ensure that the evolving National Information Infrastructure will meet the needs of government NS/EP users. Enhanced Satellite Capability explores developing satellite technologies and applications which include experiment preparation and terminal modification to experiment with NASA's Advanced Communications Technology Satellite (ACTS), preparing secure voice experiments over American Mobile Satellite Corporation Mobile Satellite (MSAT), and the analysis of the newly proposed low earth systems. Interoperability supports the Federal Telecommunications Standards Program, and ensures interoperability among emerging government communications systems. Network Security supports the Public Switched Network (PSN) in mitigating hacker threats. Advanced Intelligent Network employs newly developed processing capabilities to tailor the extensive telecommunications resources of the PSN. This program element is under Budget Activity 07 because it involves efforts supporting operational systems development.</p> |       |       |       |       |                                                                                           |       |       |                  |            |                  |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |                                                                  |      |      |      |      |      |       | DATE: March 1996 |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------------------------------------------------------------|------|------|------|------|------|-------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  | R-1 ITEM NOMENCLATURE                                            |      |      |      |      |      |       |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  | Support of the National Communication System (NCS)/P.E. 0303127K |      |      |      |      |      |       |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  | FY95                                                             | FY96 | FY97 | FY98 | FY99 | FY00 | FY01  | Cost to Complete | Total Cost |
| Enhanced Satellite Capability (ESC)/N092                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  | .980                                                             | .499 | .479 | .519 | .421 | .421 | 1.383 | Cont.            | Cont.      |
| <p><b>A. Mission Description &amp; Budget Item Justification:</b></p> <p>This project will provide greatly enhanced and cost-effective telecommunications for all operational environments with the incorporation of new satellite communication technologies. ESC will acquire knowledge of evolving technologies; support development of National Security Telecommunications Advisory Committee (NSTAC) initiatives; evaluate new commercial satellite capabilities; assure that industry is aware of NS/EP requirements and stress the importance of these features in new systems; develop concepts and architectures for acquiring advanced satellite communications services and performing test and evaluation of acquired capabilities. Regarding acquisition strategy, work will continue under existing contract vehicles.</p> <p><b>FY1995 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>Analyze and demonstrate applicability and usefulness of selected Enhanced Satellite Capability (ESC) technologies against NS/EP needs (Funding - \$670K; Completion date - Sep 95)</li> <li>Perform Asynchronous Transfer Mode (ATM), Integrated Services Digital Network (ISDN), and Synchronous Optical Network (SONET) satellite experiments (Funding - \$310K; Completion date - June 95) \$ .980M Total</li> </ul> <p><b>FY1996 Plans:</b></p> <ul style="list-style-type: none"> <li>Conduct experiments utilizing an ACTS High Data Rate (HDR) terminal to test SONET, Broadband ISDN (BISDN), and ATM technologies in the KA (spectrum of band width) spectrum (Funding - \$174K; Completion date - Continuing)</li> <li>Research potential of developing satellite technologies and systems: low earth orbit (LEO) and geostationary and plan experimentation (Funding - \$151K; Completion date - Continuing)</li> <li>Identify and determine candidate NS/EP National Information Infrastructure (NII) requirements (priority access, secure voice) that can be served via a satellite platform and experimentation (Funding - \$174K; Completion date - Continuing) \$.499M Total</li> </ul> <p><b>FY1997 Plans:</b></p> <ul style="list-style-type: none"> <li>Analyze and document results of NCS ACTS High Data Rate Experiments (Funding - \$59K; Completion date - Jul 97)</li> <li>Perform experimentation of NS/EP NII requirements and summarize results. Emphasis of experimentation will be targeted toward evolving Mobile Satellite Systems and influencing their design to include NS/EP desired features (Funding - \$250K; Completion date - Continuing)</li> <li>Perform analysis of inventory and evaluate industry activities for the potential of meeting NS/EP requirements (Funding - \$170K; Completion date - Continuing) \$.479M Total</li> </ul> |  |  |                                                                  |      |      |      |      |      |       |                  |            |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                              |  |  |  |                       |        |      |        |      |      | DATE: March 1996                                                 |                  |            |
|----------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------------------|--------|------|--------|------|------|------------------------------------------------------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                    |  |  |  | R-1 ITEM NOMENCLATURE |        |      |        |      |      | Support of the National Communication System (NCS)/P.E. 0303127K |                  |            |
| RDT&E, Defense Wide/07                                                                                                           |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| COST (in millions)                                                                                                               |  |  |  | FY95                  | FY96   | FY97 | FY98   | FY99 | FY00 | FY01                                                             | Cost to Complete | Total Cost |
| Enhanced Satellite Capability (ESC)/N092                                                                                         |  |  |  | .980                  | .499   | .479 | .519   | .421 | .421 | 1.383                                                            | Cont.            | Cont.      |
| B. Program Change Summary                                                                                                        |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| Previous President's Budget (FY 1996)                                                                                            |  |  |  | FY1995                | FY1996 |      | FY1997 |      |      |                                                                  |                  |            |
| Appropriated Value                                                                                                               |  |  |  | .980                  | .597   |      | .486   |      |      |                                                                  |                  |            |
| Adjustments to Appropriated Value                                                                                                |  |  |  | .980                  | .597   |      |        |      |      |                                                                  |                  |            |
| Adjustments to Budget Year Since FY 96 President's Budget                                                                        |  |  |  |                       | -.098  |      |        |      |      |                                                                  |                  |            |
| Current President's Budget                                                                                                       |  |  |  | .980                  | .499   |      | -.007  |      |      |                                                                  |                  |            |
| Change Summary Explanation                                                                                                       |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| Funding: FY96 reduction due to congressional adjustments to Defense-Wide Investment appropriation                                |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| FY97 reduction due to revised inflation rates                                                                                    |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| Schedule: N/A                                                                                                                    |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| Technical: N/A                                                                                                                   |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| C. Other Program Funding Summary: N/A                                                                                            |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| D. Schedule Profile                                                                                                              |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| FY95 - 3rd quarter: Demonstration and analysis of the American Mobile Satellite Corporation's (AMSC) mobile satellite system.    |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| 3rd quarter: Demonstration and analysis of the ORBCOMM mobile satellite system.                                                  |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| 4th quarter: Assess the AMSC experiment results and applicability to the NS/EP mission.                                          |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| 4th quarter: Assess the ORBCOMM experiment results and report those results to NS/EP users.                                      |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| FY96 - 3rd quarter: Analysis of developing satellite systems and operational mobile satellite systems applicable to NS/EP users. |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |
| FY97 - 3rd quarter: Analysis of operational mobile satellite systems and their relationship to the NS/EP community.              |  |  |  |                       |        |      |        |      |      |                                                                  |                  |            |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                    |                                                                                                                               | DATE: March 1996            |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| APPROPRIATION/BUDGET ACTIVITY                                         | R-1 ITEM NOMENCLATURE<br>Support of the National Communications System<br>(NCS)/0303127K/Enhanced Satellite Capability (N092) |                             |
| A. <u>Project Cost Breakdown</u> (\$000)                              | <u>FY1995</u>                                                                                                                 | <u>FY1996</u> <u>FY1997</u> |
| Project Cost Categories                                               |                                                                                                                               |                             |
| Engineering & Technical Service                                       | 980                                                                                                                           | 499 479                     |
| Total                                                                 | 980                                                                                                                           | 499 479                     |
| B. <u>Budget Acquisition History and Planning Information</u> (\$000) |                                                                                                                               |                             |
| Performing Organizations                                              |                                                                                                                               |                             |
| Support & Management Organization                                     | Budget<br>FY1995                                                                                                              | Budget<br>FY1996            |
| Test & Evaluation Organization                                        | 276                                                                                                                           | 179                         |
| Total Project                                                         | 704                                                                                                                           | 320                         |
|                                                                       | 980                                                                                                                           | 499                         |
|                                                                       |                                                                                                                               | Budget<br>FY1997            |
|                                                                       |                                                                                                                               | 138                         |
|                                                                       |                                                                                                                               | 341                         |
|                                                                       |                                                                                                                               | 479                         |
|                                                                       |                                                                                                                               | Budget To<br>Complete       |
|                                                                       |                                                                                                                               | Cont.                       |
|                                                                       |                                                                                                                               | Cont.                       |
|                                                                       |                                                                                                                               | Total<br>Program<br>Cont.   |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                                                                           |       |       |       |       |       | DATE: March 1996 |                  |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|-------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  | R-1 ITEM NOMENCLATURE<br>Support of the National Communication System (NCS)/P.E. 0303127K |       |       |       |       |       |                  |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  | FY95                                                                                      | FY96  | FY97  | FY98  | FY99  | FY00  | FY01             | Cost to Complete | Total Cost |
| Interoperability/N088                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  | 1.319                                                                                     | 1.544 | 1.507 | 1.584 | 1.640 | 1.603 | 1.501            | Cont.            | Cont.      |
| A. <u>Mission Description &amp; Budget Item Justification:</u><br>This project analyzes new telecommunications technologies and their effects on interoperability of Government communications and conducts related technical evaluations and standards development. Supports the Federal Telecommunications Standards Program. Ensures interoperability among emerging government communication systems, including information systems, by providing the required analyses to the NCS Member Organizations and other government agencies through the development of initial specification and correlation of standards for specific types of communication and information systems; the design of initial automated methods for application of standards to systems; the refinement and evaluation of program objectives in evolving technology environment. Regarding acquisition strategy, new reimbursable orders will be used. |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |
| FY1995 Accomplishments:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |
| o Develop technology and government standards to promote interoperability with emphasis on:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |
| o land mobile radio encryption (Funding - \$236K; Completion date - Sep 95)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |
| o cellular encryption (Funding - \$238K; Completion date - Sep 95)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |
| o Further develop technology standards to ensure interoperability with emphasis on restoral techniques, teleconferencing and NS/EP requirements for wireless/cellular communications (Funding - \$845K; Completion date - Aug 95) \$1.319M Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |
| FY 1996 Plans:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |
| o Develop techniques and analyses to implement national security and emergency preparedness (NS/EP) requirements in emerging standards for wide-band networks and wireless services of the National Information Infrastructure (Funding - \$694K; Completion date - Continuing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |
| o Develop strategies and detailed specifications for methods of congestion control in asynchronous transfer mode (ATM) networks, to help ensure reliable NS/EP communications (Funding - \$400K; Completion date - Continuing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |
| o Develop analysis methods for determining NS/EP quality requirements for multi-media communications over the National Information Infrastructure (Funding - \$450K; Completion date - Continuing) \$1.544M Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |
| FY1997 Plans:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |
| o Develop additional and updated techniques for reliable and secure NS/EP communications in wide-band and wireless networks (Funding - \$627K; Completion date - Continuing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |
| o Develop additional and updated methods and proposed standards for flow controlling asynchronous transfer mode congestion to help ensure reliable NS/EP communications (Funding - \$415K; Completion date - Continuing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |
| o Develop analyses, methods, and standards for assessing quality of multi-media NS/EP communications (Funding - \$465K; Completion date - Continuing) \$1.507M Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |                                                                                           |       |       |       |       |       |                  |                  |            |

Page 5 of 14

Page 5 of 14

UNCLASSIFIED

99

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                 |  |  |  |                                                                  |        |        |        |        |        | DATE: March 1996 |                  |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------|--------|--------|--------|--------|--------|------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                       |  |  |  | R-1 ITEM NOMENCLATURE                                            |        |        |        |        |        |                  |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                              |  |  |  | Support of the National Communication System (NCS)/P.E. 0303127K |        |        |        |        |        |                  |                  |            |
| COST (in millions)                                                                                                                                                                  |  |  |  | FY95                                                             | FY96   | FY97   | FY98   | FY99   | FY00   | FY01             | Cost to Complete | Total Cost |
| Interoperability/N088                                                                                                                                                               |  |  |  | 1.319                                                            | 1.544  | 1.507  | 1.584  | 1.640  | 1.603  | 1.501            | Cont.            | Cont.      |
| B. <u>Program Change Summary</u>                                                                                                                                                    |  |  |  |                                                                  |        |        |        |        |        |                  |                  |            |
| Previous President's Budget (FY 1996)                                                                                                                                               |  |  |  | FY1995                                                           | FY1996 | FY1997 |        |        |        |                  |                  |            |
| Appropriated Value                                                                                                                                                                  |  |  |  | 1.319                                                            | 1.573  | 1.632  |        |        |        |                  |                  |            |
| Adjustment to Appropriated Value                                                                                                                                                    |  |  |  | 0                                                                | 1.573  |        |        |        |        |                  |                  |            |
| Adjustment to Budget Year Since FY 96 President's Budget                                                                                                                            |  |  |  |                                                                  | -.029  |        |        |        |        |                  |                  |            |
| Current President's Budget                                                                                                                                                          |  |  |  | 1.319                                                            | 1.544  | 1.507  |        |        |        |                  |                  |            |
| Change Summary Explanation                                                                                                                                                          |  |  |  |                                                                  |        |        |        |        |        |                  |                  |            |
| Funding: FY96 reduction due to congressional adjustments to Defense-wide Investment appropriation                                                                                   |  |  |  |                                                                  |        |        |        |        |        |                  |                  |            |
| FY97 reduction due to revised fiscal guidance.                                                                                                                                      |  |  |  |                                                                  |        |        |        |        |        |                  |                  |            |
| Schedule: N/A                                                                                                                                                                       |  |  |  |                                                                  |        |        |        |        |        |                  |                  |            |
| Technical: N/A                                                                                                                                                                      |  |  |  |                                                                  |        |        |        |        |        |                  |                  |            |
| C. <u>Other Program Funding Summary</u>                                                                                                                                             |  |  |  |                                                                  |        |        |        |        |        |                  |                  |            |
|                                                                                                                                                                                     |  |  |  | FY1995                                                           | FY1996 | FY1997 | FY1998 | FY1999 | FY2000 | FY2001           | To               | Total      |
| O&M                                                                                                                                                                                 |  |  |  | 3.044                                                            | 2.740  | 3.402  | 3.414  | 3.701  | 3.701  | 3.701            | Compl            | Cost       |
|                                                                                                                                                                                     |  |  |  |                                                                  |        |        |        |        |        |                  | Cont.            | Cont.      |
| D. <u>Schedule Profile</u>                                                                                                                                                          |  |  |  |                                                                  |        |        |        |        |        |                  |                  |            |
| FY95 - 3rd quarter: Receive analysis from a non-profit academic organization on strategies developed for cell loss probability high-speed digital networks.                         |  |  |  |                                                                  |        |        |        |        |        |                  |                  |            |
| FY96 - 3rd quarter: Receive report from Institute for Telecommunications Science on algorithm developed to quantify quality of multi-media transmission, from a user's perspective. |  |  |  |                                                                  |        |        |        |        |        |                  |                  |            |
| FY97 - 2nd quarter: Receive report from National Institute of Standards and Technology on rapid (< 1 second) restoration of multi-megabit switched digital circuits.                |  |  |  |                                                                  |        |        |        |        |        |                  |                  |            |

Page 6 of 14

UNCLASSIFIED

100

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                    |                                                                                                                  | DATE: March 1996               |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07               | R-1 ITEM NOMENCLATURE<br>Support of the National Communications System<br>(NCS)/0303127K/Interoperability (N088) |                                |
| A. <u>Project Cost Breakdown</u> (\$000)                              |                                                                                                                  |                                |
| Project Cost Categories                                               |                                                                                                                  |                                |
| Engineering & Technical Service                                       |                                                                                                                  |                                |
| Total Project                                                         |                                                                                                                  |                                |
|                                                                       | FY1995                                                                                                           | FY1996                         |
|                                                                       | 1,319                                                                                                            | 1,544                          |
|                                                                       | 1,319                                                                                                            | 1,507                          |
|                                                                       |                                                                                                                  | 1,507                          |
| B. <u>Budget Acquisition History and Planning Information</u> (\$000) |                                                                                                                  |                                |
| Performing Organizations                                              |                                                                                                                  |                                |
| Test & Evaluation Organization                                        |                                                                                                                  |                                |
| Product Development Organization                                      |                                                                                                                  |                                |
| Total Project                                                         |                                                                                                                  |                                |
|                                                                       | Budget<br>FY1995<br>1,181                                                                                        | Budget<br>FY1996<br>1,231      |
|                                                                       | 138                                                                                                              | 313                            |
|                                                                       | 1,319                                                                                                            | 1,544                          |
|                                                                       |                                                                                                                  | Budget<br>FY1997<br>1,209      |
|                                                                       |                                                                                                                  | 298                            |
|                                                                       |                                                                                                                  | 1,507                          |
|                                                                       |                                                                                                                  | Budget To<br>Complete<br>Cont. |
|                                                                       |                                                                                                                  | Cont.                          |
|                                                                       |                                                                                                                  | Cont.                          |
|                                                                       |                                                                                                                  | Cont.                          |
|                                                                       |                                                                                                                  | Total<br>Program<br>Cont.      |
|                                                                       |                                                                                                                  | Cont.                          |
|                                                                       |                                                                                                                  | Cont.                          |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                  |        |        |        |        |        |        |                  | DATE: March 1996 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | R-1 ITEM NOMENCLATURE                                            |        |        |        |        |        |        |                  |                  |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Support of the National Communication System (NCS)/P.E. 0303127K |        |        |        |        |        |        |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | FY1995                                                           | FY1996 | FY1997 | FY1998 | FY1999 | FY2000 | FY2001 | Cost to Complete | Total Cost       |
| Network Security/N094                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | .495                                                             | .499   | .503   | .521   | .525   | .525   | .525   | Cont.            | Cont.            |
| <p><b>A. Mission Description &amp; Budget Item Justification</b><br/>           This project was initiated to mitigate the hacker threat posed to NS/EP telecommunications carried via the Public Switched Network (PSN). The research gained from this project will be used to develop a consistent framework of guidelines that will be useful to government and industry in assuring that critical software supporting and/or controlling telecommunications switches can be trusted to perform as required in support of the PSN. Regarding acquisition strategy, new reimbursable orders will be used.</p> <p><b>FY1995 Accomplishment:</b></p> <ul style="list-style-type: none"> <li>Continue joint Office of the Manager National Communications System (OMNCS) and National Institute for Standards and Technology (NIST) efforts to assure security of software and databases associated with the PSN (Funding - \$495K; Completion date - Continuing) \$495M Total</li> </ul> <p><b>FY1996 Plans:</b></p> <ul style="list-style-type: none"> <li>Develop software tools useful in identifying and eliminating security vulnerabilities from large computer programs such as those used in communications systems (Funding - \$299K; Completion date - Continuing)</li> <li>Evaluate security tools and techniques relevant to communication systems and provide guidelines for protecting communications systems from computer intruders (Funding - \$200K; Completion date - Continuing) \$499M Total</li> </ul> <p><b>FY1997 Plans:</b></p> <ul style="list-style-type: none"> <li>Develop additional tools to identify and eliminate security vulnerabilities in large computer programs such as those used in communications systems. Update previously developed tools for application to emerging computer systems (Funding - \$301K; Completion date - Continuing)</li> <li>Evaluate additional security tools and techniques relevant to communications systems and provide updated guidelines (Funding - \$202K; Completion date - Continuing) \$503M Total</li> </ul> |  |                                                                  |        |        |        |        |        |        |                  |                  |
| <p><b>B. Program Change Summary</b></p> <p>Previous President's Budget (FY 1996)</p> <p>Appropriated Value</p> <p>Adjustments to Appropriated Value</p> <p>Adjustments to Budget Year Since FY 96 President's Budget</p> <p>Current Budget Submit/President's Budget</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                  |        |        |        |        |        |        |                  |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | FY1995                                                           | FY1996 | FY1997 | FY1998 | FY1999 | FY2000 | FY2001 | Cost to Complete | Total Cost       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | .495                                                             | .499   | .503   | .521   | .525   | .525   | .525   | Cont.            | Cont.            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | .495                                                             | .499   | .503   | .521   | .525   | .525   | .525   | Cont.            | Cont.            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 0                                                                | 0      | 0      | 0      | 0      | 0      | 0      | 0                | 0                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | .495                                                             | .499   | .503   | .521   | .525   | .525   | .525   | Cont.            | Cont.            |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                         |        |       |                                                                  |       |        |       |        |       |        | DATE: March 1996 |            |       |        |       |                 |                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|------------------------------------------------------------------|-------|--------|-------|--------|-------|--------|------------------|------------|-------|--------|-------|-----------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                               |        |       | R-1 ITEM NOMENCLATURE                                            |       |        |       |        |       |        |                  |            |       |        |       |                 |                  |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                      |        |       | Support of the National Communication System (NCS)/P.E. 0303127K |       |        |       |        |       |        |                  |            |       |        |       |                 |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                          |        |       | FY95                                                             | FY96  | FY97   | FY98  | FY99   | FY00  | FY01   | Cost to Complete | Total Cost |       |        |       |                 |                  |
| Network Security/N094                                                                                                                                                                                                                                                                                                                                                                       |        |       | .495                                                             | .499  | .503   | .521  | .525   | .525  | .525   | Cont.            | Cont.      |       |        |       |                 |                  |
| <p>Change Summary Explanation</p> <p>Funding: N/A</p> <p>Schedule: N/A</p> <p>Technical: N/A</p>                                                                                                                                                                                                                                                                                            |        |       |                                                                  |       |        |       |        |       |        |                  |            |       |        |       |                 |                  |
| <p>C. <u>Other Program Funding Summary</u></p>                                                                                                                                                                                                                                                                                                                                              |        |       |                                                                  |       |        |       |        |       |        |                  |            |       |        |       |                 |                  |
| O&M                                                                                                                                                                                                                                                                                                                                                                                         | FY1995 | 1.164 | FY1996                                                           | 1.300 | FY1997 | 1.300 | FY1998 | 1.300 | FY1999 | 2.718            | FY2000     | 5.617 | FY2001 | 6.371 | To Compl. Cont. | Total Cost Cont. |
| <p>D. <u>Schedule Profile</u></p>                                                                                                                                                                                                                                                                                                                                                           |        |       |                                                                  |       |        |       |        |       |        |                  |            |       |        |       |                 |                  |
| <p>FY95 - 3rd quarter: Federal Information Processing Standard on Telecommunications Security</p> <p>FY96 - 4th quarter: Beta test version of "Decomposition Slicing" tool for analyzing effects of maintenance changes in large computer programs</p> <p>FY97 - 4th quarter: Evaluations of security features in switches performed by the Telecommunications Security Analysis Center</p> |        |       |                                                                  |       |        |       |        |       |        |                  |            |       |        |       |                 |                  |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                  |                                                                                                               | DATE: March 1996 |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07             | R-1 ITEM NOMENCLATURE<br>Support of the National Communications System (NCS)/0303127K/Network Security (N094) |                  |
| A. <u>Project Cost Breakdown</u> (\$000)                            |                                                                                                               |                  |
| Project Cost Categories                                             |                                                                                                               |                  |
| Engineering & Technical Service                                     |                                                                                                               |                  |
| B. <u>Budget Acquisition History and Planning Information</u> : N/A |                                                                                                               |                  |
|                                                                     | FY1995                                                                                                        | FY1996           |
|                                                                     | 495                                                                                                           | 499              |
|                                                                     |                                                                                                               | 503              |
|                                                                     | FY1997                                                                                                        |                  |

Page 10 of 14

R-1 Shopping List  
UNCLASSIFIED

104

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                  |        |        |        |        |        |        |                  | DATE: March 1996 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | R-1 ITEM NOMENCLATURE                                            |        |        |        |        |        |        |                  |                  |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Support of the National Communication System (NCS)/P.E. 0303127K |        |        |        |        |        |        |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | FY1995                                                           | FY1996 | FY1997 | FY1998 | FY1999 | FY2000 | FY2001 | Cost to Complete | Total Cost       |
| Advanced Intelligent Network/N091                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 1.435                                                            | 1.191  | 1.421  | 1.946  | 1.985  | 1.985  | 1.985  | Cont.            | Cont.            |
| <p><b>A. Mission Description &amp; Budget Item Justification</b></p> <p>This project is required to employ newly developed processing capabilities to tailor the extensive telecommunications resources of the existing Public Switched Network (PSN), which includes the Local Exchange Carrier (LEC) and Inter Exchange Carrier (IEC) Networks, thus enhancing connectivity and survivability of services for essential government users during periods of emergency. Advanced Intelligent Network (AIN) is an evolving PSN capability consisting of signaling systems, switches, computer processing, databases and transmission media. This research will result in the utilization of these components, in a customized set of network services that can be flexibly, rapidly and cost effectively configured by customers upon demand on an as needed basis. Regarding acquisition strategy, work will continue under current contract vehicles.</p> <p><b>FY1995 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>o Conduct studies to determine reliability and survivability of the configuration of AIN capabilities, previously selected, and the networks supporting them (Funding - \$415K; Completion date - May 95)</li> <li>o Assess interoperability of AIN with other systems such as FTS 2000 and the Defense Information Systems Network, and potential interface and assess AIN NII opportunities for NS/EP (Funding - \$310K; Completion date - Sep 95)</li> <li>o Demonstrate AIN capabilities and their applications to NS/EP telecommunications and other Government networks, through a laboratory trial of the AIN candidate configuration selected and related technology (Funding - \$710K; Completion date - Aug 95) \$1.435M Total</li> </ul> <p><b>FY1996 Plans:</b></p> <ul style="list-style-type: none"> <li>o Evaluate AIN industry developments and capabilities for potential applications to NS/EP telecommunications (Funding - \$150K; Completion date - Continuing)</li> <li>o Determine AIN relationship to evolving National Communications System (NCS) requirements for advanced intelligent capabilities and data services, define applications for implementation into OMNCS initiatives (Funding - \$350K; Completion date - Continuing)</li> <li>o Research AIN interoperability with emerging technologies such as Integrated Services Digital Network (ISDN), Asynchronous Transfer Mode (ATM) and Personal Communications (PCS), for potential integrated voice, data, wireline and wireless services (Funding - \$350K; Completion date - Continuing)</li> <li>o Analyze AIN Bellcore generic requirements for potential NS/EP considerations and influence AIN implementation as the technology becomes standardized (Funding - \$170K; Completion date - Continuing)</li> <li>o Research mediated access FCC issues for further development of AIN switches and elements (Funding - \$171K; Completion date - Continuing) \$1.191M Total</li> </ul> |  |                                                                  |        |        |        |        |        |        |                  |                  |

Page 11 of 14

UNCLASSIFIED

105

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                                                                  |        |       |       |       |       |       |                  | DATE: March 1996 |                                       |        |        |        |                    |       |       |       |                                   |   |       |  |                                                           |  |      |   |                            |       |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------|--------|-------|-------|-------|-------|-------|------------------|------------------|---------------------------------------|--------|--------|--------|--------------------|-------|-------|-------|-----------------------------------|---|-------|--|-----------------------------------------------------------|--|------|---|----------------------------|-------|-------|-------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | R-1 ITEM NOMENCLATURE                                            |        |       |       |       |       |       |                  |                  |                                       |        |        |        |                    |       |       |       |                                   |   |       |  |                                                           |  |      |   |                            |       |       |       |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | Support of the National Communication System (NCS)/P.E. 0303127K |        |       |       |       |       |       |                  |                  |                                       |        |        |        |                    |       |       |       |                                   |   |       |  |                                                           |  |      |   |                            |       |       |       |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | FY95                                                             | FY96   | FY97  | FY98  | FY99  | FY00  | FY01  | Cost to Complete | Total Cost       |                                       |        |        |        |                    |       |       |       |                                   |   |       |  |                                                           |  |      |   |                            |       |       |       |
| Advanced Intelligent Network/N091                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | 1.435                                                            | 1.191  | 1.421 | 1.946 | 1.985 | 1.985 | 1.985 | Cont.            | Cont.            |                                       |        |        |        |                    |       |       |       |                                   |   |       |  |                                                           |  |      |   |                            |       |       |       |
| <p><u>FY1997 Plans:</u></p> <ul style="list-style-type: none"> <li>o Research and develop AIN candidate configurations of potential voice and data AIN services in support of NS/EP emerging requirements and those necessary to support emergency operations on the NII (Funding - \$350K; Completion date - Continuing)</li> <li>o Plan for and demonstrate proof of concept strategies for offering AIN services and demonstrate interoperability across the Public Switched Network (PSN) across multiple service providers and with other technologies such as ISDN, ATM and PCS (Funding - \$460K; Completion date - Continuing)</li> <li>o Assess AIN survivability, reliability, interoperability and security concerns for NS/EP voice and data applications and influence industry to act on NS/EP concerns (Funding - \$300K; Completion date - Continuing)</li> <li>o Follow-on to FY96 initiatives to plan demonstrations that remain current with planned industry capabilities and issues, and influence the design of AIN services to be responsive to the needs of the NS/EP community (Funding - \$311K; Completion date - Continuing) \$1.421M Total</li> </ul> <p><u>B. Program Change Summary</u></p> <table border="0"> <tr> <td>Previous President's Budget (FY 1996)</td> <td>FY1995</td> <td>FY1996</td> <td>FY1997</td> </tr> <tr> <td>Appropriated Value</td> <td>1.435</td> <td>1.393</td> <td>1.421</td> </tr> <tr> <td>Adjustments to Appropriated Value</td> <td>0</td> <td>1.393</td> <td></td> </tr> <tr> <td>Adjustments to Budget Year Since FY 96 President's Budget</td> <td></td> <td>-202</td> <td>0</td> </tr> <tr> <td>Current President's Budget</td> <td>1.435</td> <td>1.191</td> <td>1.421</td> </tr> </table> <p>Change Summary Explanation<br/> Funding: FY96 reduction due to congressional adjustments to Defense-wide Investment appropriations<br/> Schedule: N/A<br/> Technical: N/A</p> <p><u>C. Other Program Funding Summary:</u> N/A</p> |        |                                                                  |        |       |       |       |       |       |                  |                  | Previous President's Budget (FY 1996) | FY1995 | FY1996 | FY1997 | Appropriated Value | 1.435 | 1.393 | 1.421 | Adjustments to Appropriated Value | 0 | 1.393 |  | Adjustments to Budget Year Since FY 96 President's Budget |  | -202 | 0 | Current President's Budget | 1.435 | 1.191 | 1.421 |
| Previous President's Budget (FY 1996)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FY1995 | FY1996                                                           | FY1997 |       |       |       |       |       |                  |                  |                                       |        |        |        |                    |       |       |       |                                   |   |       |  |                                                           |  |      |   |                            |       |       |       |
| Appropriated Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.435  | 1.393                                                            | 1.421  |       |       |       |       |       |                  |                  |                                       |        |        |        |                    |       |       |       |                                   |   |       |  |                                                           |  |      |   |                            |       |       |       |
| Adjustments to Appropriated Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0      | 1.393                                                            |        |       |       |       |       |       |                  |                  |                                       |        |        |        |                    |       |       |       |                                   |   |       |  |                                                           |  |      |   |                            |       |       |       |
| Adjustments to Budget Year Since FY 96 President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | -202                                                             | 0      |       |       |       |       |       |                  |                  |                                       |        |        |        |                    |       |       |       |                                   |   |       |  |                                                           |  |      |   |                            |       |       |       |
| Current President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.435  | 1.191                                                            | 1.421  |       |       |       |       |       |                  |                  |                                       |        |        |        |                    |       |       |       |                                   |   |       |  |                                                           |  |      |   |                            |       |       |       |

Page 12 of 14

UNCLASSIFIED

106

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                   |  |                       |       |       |       |       |       |       |                  | DATE: March 1996                                                 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|-------|-------|-------|-------|-------|-------|------------------|------------------------------------------------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                         |  | R-1 ITEM NOMENCLATURE |       |       |       |       |       |       |                  | Support of the National Communication System (NCS)/P.E. 0303127K |  |
| COST (in millions)                                                                                                                                                                                                                                                                                    |  | FY95                  | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost to Complete | Total Cost                                                       |  |
| Advanced Intelligent Network/N091                                                                                                                                                                                                                                                                     |  | 1,435                 | 1,191 | 1,421 | 1,946 | 1,985 | 1,985 | 1,985 | Cont.            | Cont.                                                            |  |
| <p>D. Schedule Profile</p> <p>FY95 - 1st/2nd quarter: AIN and Intelligent ISDN Demonstrations<br/>           Contract Award - 1 October 1995</p> <p>FY96 - 4th quarter: AIN Multimedia Applications for NS/EP</p> <p>FY97 - 2nd quarter: Develop AIN Open Network Architecture and Demonstrations</p> |  |                       |       |       |       |       |       |       |                  |                                                                  |  |

UNCLASSIFIED

| <b>RDT&amp;E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)</b>         |  |                                                                                                                                   |                         |                         |                         | <b>DATE:</b> March 1996 |
|-----------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>RDT&E, Defense Wide/07        |  | <b>R-1 ITEM NOMENCLATURE</b><br>Support of the National Communications System<br>(NCS)/0303127K/Advanced Intelligent Network/N091 |                         |                         |                         |                         |
| <b>A. Project Cost Breakdown (\$000)</b>                              |  |                                                                                                                                   |                         |                         |                         |                         |
| Project Cost Categories                                               |  |                                                                                                                                   | <u>FY1995</u>           | <u>FY1996</u>           | <u>FY1997</u>           |                         |
| Engineering & Technical Service                                       |  |                                                                                                                                   | 1,435                   | 1,191                   | 1,421                   |                         |
| Total Project                                                         |  |                                                                                                                                   | 1,435                   | 1,191                   | 1,421                   |                         |
| <b>B. Budget Acquisition History and Planning Information (\$000)</b> |  |                                                                                                                                   |                         |                         |                         |                         |
| Performing Organizations                                              |  |                                                                                                                                   |                         |                         |                         |                         |
|                                                                       |  | Budget<br><u>FY1995</u>                                                                                                           | Budget<br><u>FY1996</u> | Budget<br><u>FY1997</u> | Total<br><u>Program</u> |                         |
| Support & Management Organization                                     |  | 502                                                                                                                               | 487                     | 497                     | Cont.                   |                         |
| Product Development Organization                                      |  | 933                                                                                                                               | 704                     | 924                     | Cont.                   |                         |
| Total Project                                                         |  | 1,435                                                                                                                             | 1,191                   | 1,421                   |                         |                         |

Page 14 of 14

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                    |      |       |       |       |       | DATE: March 1996 |                  |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------|------|-------|-------|-------|-------|------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  | R-1 ITEM NOMENCLATURE              |      |       |       |       |       |                  |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  | Defense Message System/PE 0303129K |      |       |       |       |       |                  |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  | FY95                               | FY96 | FY97  | FY98  | FY99  | FY00  | FY01             | Cost of Complete | Total Cost |
| Project H80 Defense Message System (DMS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  | 0*                                 | 0*   | 2.532 | 2.674 | 2.745 | 2.845 | 2.938            | Contg            | Contg      |
| <p>A. Mission Description &amp; Budget Item Justification. *This project is not a new start. Prior to FY 1997, it was funded in PE0303126K. The purpose of this project is to provide system engineering to ensure that JS and OSD (C3D) validated messaging requirements are satisfied through the use of a COTS-based, multi-level secure messaging and directory service. The DMS provides the defense community with a more interoperable, cost effective messaging/directory service than that which is in place today. Current support is focused on developing secure messaging/directory/management services through requirements definition and refinement; target component Developmental, Initial and Final Operational Test and Evaluation (DT&amp;E, IOT&amp;E and FOT&amp;E); developing transitional interoperability requirements and components/services; technology insertion and service demonstrations; and influencing industry to include DMS features as part of their standard product offerings. This program element is under budget activity 07 because it supports operational systems development.</p> <p>(U) FY 1995 Accomplishments:<br/>Work is performed in PE0303126K.</p> <p>(U) FY 1996 Accomplishments:<br/>Work is performed in PE0303126K.</p> <p>(U) FY 1997 Plans:<br/>o Perform transition planning for Post IOC sensitive but unclassified and classified DMS users, including cross program integration (GCCS, EC/EDI, etc.) and tactical. (\$816K) (Cont.)<br/>o Support the Post IOC test and evaluation effort through JWID and Technical Insertion Network scenario development, execution, &amp; results analysis and finalization of revisions to Functional Security &amp; Performance (FSP) criteria and compliance definition.. (\$426K) (Cont.)<br/>o Perform system lifecycle/evolution engineering to account for growth, policy and requirements changes, MISSI and commercial product changes, etc. (\$446K) (Cont.)<br/>o Develop and promote DOD/DMS requirements and positions on data communications protocol issues via military and civilian, national and international standards fora. (\$844K)(Cont.)<br/>\$2.532M Total</p> |  |  |  |                                    |      |       |       |       |       |                  |                  |            |

Page 1 of 3

UNCLASSIFIED

109

RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE: March 1996

**APPROPRIATION/BUDGET ACTIVITY**

RDT&amp;E, Defense Wide/07

## R-1 ITEM NOMENCLATURE

**Defense Message System/PE 0303129K**

| COST (in millions)                       |      |      |       |       |       |       |       | Total Cost       |
|------------------------------------------|------|------|-------|-------|-------|-------|-------|------------------|
|                                          | FY95 | FY96 | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete |
| Project H80 Defense Message System (DMS) | 0*   | 0*   | 2,532 | 2,674 | 2,745 | 2,845 | 2,938 | Contg            |

### **B. Program Change Summary**

Previous President's Budget (FY 1996)

Appropriated Value

### Adjustments to Appropriated Value

### Adjustments to Budget Year Since FY 1996 President's Budget

**Current Budget Submit/President's Budget**

**Change Summary Explanation:**

**Funding:**

\*FY95 - FY96 : Work is performed in PE0303126K.

**FY97: Changes are due to revised inflation rates.**

### **C. Other Program Funding Summary**

|      | FY96   | FY97   | FY98   | FY99   | FY00   | FY01   |
|------|--------|--------|--------|--------|--------|--------|
| O&M  | 20,700 | 34,497 | 34,206 | 36,111 | 21,148 | 14,403 |
| Proc | 30,100 | 41,397 | 44,685 | 44,569 | 29,924 | 20,734 |

#### **D. Schedule Profile**

UN FY 1995

(U) FY 1996

(U) FY 1997

### Engineering Milestones: Finalized Tactical Standardized Profile (4 Qtr)

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)      |                                                  |                                |                               |                          |                                                             |                |                |                       |                  | DATE: March 1996 |  |
|---------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------|--------------------------|-------------------------------------------------------------|----------------|----------------|-----------------------|------------------|------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07 |                                                  |                                |                               |                          | R-1 ITEM NOMENCLATURE<br>Defense Message System/PE 0303129K |                |                |                       |                  |                  |  |
| A. Project Cost Breakdown                               |                                                  |                                |                               |                          | FY95                                                        | FY96           | FY97           |                       |                  |                  |  |
| Project Cost Categories (\$000K)                        |                                                  |                                |                               |                          |                                                             |                |                |                       |                  |                  |  |
| a. Engineering and Technical Services                   |                                                  |                                |                               |                          |                                                             |                |                |                       |                  |                  |  |
| Total                                                   |                                                  |                                |                               |                          | 0                                                           | 0              | 2,532          |                       |                  |                  |  |
| B. Budget Acquisition History and Planning Information  |                                                  |                                |                               |                          |                                                             |                |                |                       |                  |                  |  |
| Contractor or<br>Government<br>Performing<br>Activity   | Contract<br>Method/Type<br>or Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Budget<br>FY95                                              | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete | Total<br>Program |                  |  |
| All Other Contracts                                     |                                                  |                                |                               |                          |                                                             |                |                |                       |                  |                  |  |
| Product Development Organizations                       |                                                  |                                |                               |                          |                                                             |                |                |                       |                  |                  |  |
| USAISC                                                  | MIPR                                             | 21 Dec 95                      |                               |                          | 0                                                           | 0              | 360            | Continuing            | Continuing       |                  |  |
| AT&T                                                    | CPAF                                             | 20 Dec 95                      |                               |                          | 0                                                           | 0              | 470.5          |                       |                  |                  |  |
| Other Contracts                                         |                                                  | 20 Dec 95                      |                               |                          | 0                                                           | 0              | 382            |                       |                  |                  |  |
| Support and Management Organizations                    |                                                  |                                |                               |                          |                                                             |                |                |                       |                  |                  |  |
| MITRE                                                   | Procurement Work Directive (PWD)                 |                                |                               |                          | 0                                                           | 0              | 1319.5         | Continuing            | Continuing       |                  |  |
| Subtotal Contracts                                      |                                                  |                                |                               |                          | 0                                                           | 0              | 2,532          |                       |                  |                  |  |
| In House Engineering & Technical Support                |                                                  |                                |                               |                          |                                                             |                |                |                       |                  |                  |  |

Page 3 of 3

Page 3 of 3

UNCLASSIFIED

111

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |       |       |       |                                                                                              |       |       |       |                  | DATE: March 1996 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|-------|-------|----------------------------------------------------------------------------------------------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |       |       |       | R-1 ITEM NOMENCLATURE<br>Minimum Essential Emergency Communications Network (MEECN)/0303131K |       |       |       |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | FY95  | FY96  | FY97  | FY98                                                                                         | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| Total Program Element (PE) Cost                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 3.237 | 2.620 | 2.311 | 2.482                                                                                        | 2.612 | 3.030 | 3.462 | Contg            | Contg            |
| Strategic C3 Support/T70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 3.237 | 2.361 | 2.075 | 2.227                                                                                        | 2.340 | 2.716 | 3.103 | Contg            | Contg            |
| Contingency Planning for the President/T71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 0*    | .259  | .236  | .255                                                                                         | .272  | .314  | .359  | Contg            | Contg            |
| <p><b>A. Mission Description and Budget Item Justification:</b><br/>           This program focuses on ensuring the implementation of national policy requiring nuclear Command, Control and Communications (C3) systems; support positive control of nuclear forces, and connectivity between National Command Authorities (NCA) and strategic and other appropriate forces to assure adequate command and control is maintained throughout all phases of conflict and instability. This support also provides informed decision-making linkage between the NCA and the Commanders-in-Chief (CINC) of the Unified and Specified Commands. DISA performs this task as Nuclear C3 (NC3) Systems Engineer. It specifically ensures a balanced, integrated capability is maintained. This project provides direct long range and specialized support to ASD(C3D) and Joint Staff (JS) for determining which programs should be supported and/or canceled, as well as supports fail safe and risk reduction. This program element is under Budget Activity 07 because it involves efforts supporting operational systems development.</p> |  |       |       |       |                                                                                              |       |       |       |                  |                  |
| <p>*In FY95, this project is funded in Program Element 0302016K. It is not a new start.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |       |       |       |                                                                                              |       |       |       |                  |                  |

Page 1 of 7

UNCLASSIFIED

112

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |                                                                     |       |       |       |       |       |       | DATE: March 1996 |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  | R-1 ITEM NOMENCLATURE                                               |       |       |       |       |       |       |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  | Minimum Essential Emergency Communications Network (MEECN)/0303131K |       |       |       |       |       |       |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  | FY95                                                                | FY96  | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost |
| Strategic C3 Support/T70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  | 3.237                                                               | 2.361 | 2.075 | 2.227 | 2.340 | 2.716 | 3.103 | Contg            | Contg      |
| <p><b>A. Mission Description &amp; Budget Item Justification:</b></p> <p>This project has four elements: strategic planning, operational assessments, communications plans, and engineering. Together, these elements perform all of the functions of the Nuclear C3 system's engineer, and all of the NCA and Nuclear C3 support for ASD(C3D). The first element is Strategic Planning which is done for ASD(C3D) and the Joint Staff. These are the long range plans and vulnerability assessments done to ensure NCA and Nuclear C3 are always adequate under all conditions of stress or war. It evaluates the operational capability for the Nuclear Command and Control System (NCCS), i.e., strengths and weaknesses and determines the best investment strategy to evolve the current NCCS to achieve the desired capability. Threats—from terrorist activities—to regional—to global are considered. Fiscal constraints and other top level guidance are also significant factors influencing these plans. The second element is Operational Assessments of the fielded C3 systems and weapons platforms. This assessment is the sole means for positive verification of the communications plans, procedures, op-orders, training, equipment and system configuration from end-to-end. It includes both strategic, theater-to-national level C3 interfaces into the Nuclear Command and Control and Communications (NC3) systems. The tests are performed in an operational setting with Joint Chiefs of Staff (JCS), CINC and nuclear forces worldwide. The third element of this project is to maximize the operational readiness of the National Military Command System (NMCS) by developing communications plans, procedures, Operations Orders and Battle Staff certification, and keeping these plans and procedures accurate as policy and forces change. Under this element, Battle Staff proficiency is verified. The fourth element of this project provides engineering guidance and participates in all nuclear C3 system life cycle systems engineering related functions. It includes mission and functional technical requirements definition; alternative designs and solutions; program policy and guidance; subsystem and network integration; modeling; test and evaluation; development, deployment, installation, and problem isolation. This element resolves design, engineering, performance, and interoperability issues for critical, strategic systems.</p> <p><b>(U) FY 1995 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>o Continue Strategic NC3T&amp;E/Non-Strategic Nuclear Forces (NSNF) C3 Operations assessment (Sep 95; \$1,140K).</li> <li>o Nuclear C3 Assessment (Sep 95; \$1,435K).</li> <li>o Communications Plans (Sep 95; \$402K).</li> <li>o ASD(C3D) Special Studies: Develop implementation of Nuclear Posture Review Architecture (Sep 95; \$260K).</li> </ul> <p><b>\$3.237M Total</b></p> |  |  |                                                                     |       |       |       |       |       |       |                  |            |

Page 2 of 7

UNCLASSIFIED

113

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                               |  |  |  |                                                                     |       |       |       |       |       | DATE: March 1996 |                  |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------|-------|-------|-------|-------|-------|------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                     |  |  |  | R-1 ITEM NOMENCLATURE                                               |       |       |       |       |       |                  |                  |            |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                            |  |  |  | Minimum Essential Emergency Communications Network (MEECN)/0303131K |       |       |       |       |       |                  |                  |            |
| COST (in millions)                                                                                                                                                                                                                                                                                |  |  |  | FY95                                                                | FY96  | FY97  | FY98  | FY99  | FY00  | FY01             | Cost of Complete | Total Cost |
| Strategic C3 Support/T70                                                                                                                                                                                                                                                                          |  |  |  | 3.237                                                               | 2.361 | 2.075 | 2.227 | 2.340 | 2.716 | 3.103            | Contg            | Contg      |
| (U) FY 1996 Plans:                                                                                                                                                                                                                                                                                |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| o Continue reduced Nuclear C3 Operational Assessments/Positive Command and Control (Sep 96; \$1,238K).                                                                                                                                                                                            |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| o Continue selected Communications plans updating and certifications (Sep 96; \$433K).                                                                                                                                                                                                            |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| o Commence identifying NC3 communication requirement for Proliferation (Sep 96; \$529K).                                                                                                                                                                                                          |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| o Commence validating new architecture implementing Nuclear Posture Review (NPR) recommendations (Sep 96; \$161K).                                                                                                                                                                                |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| \$2.361M Total                                                                                                                                                                                                                                                                                    |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| (U) FY 1997 Plans:                                                                                                                                                                                                                                                                                |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| o Continue reduced Nuclear C3 Operational Assessments/Positive Command and Control (Sep 97; \$1,204K).                                                                                                                                                                                            |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| o Continue selected Communications plans updating and certifications (Sep 97; \$350K).                                                                                                                                                                                                            |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| o Complete NC3 communication requirement for Proliferation (Sep 97; \$450K).                                                                                                                                                                                                                      |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| o Validate new architecture to implement Commercial-Off-The-Shelf (COTS) equipment into NC3 (Sep 97; \$71K).                                                                                                                                                                                      |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| \$2.075M Total                                                                                                                                                                                                                                                                                    |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| Acquisition strategy: MITRE Corporation, McLean, VA; Electrospace Systems Inc., Arlington, VA; Naval Research and Development Center (NRAD), San Diego, CA; Sciences Applications International Corporation (SAIC), McLean, VA; Naval Space and Warfare Systems Command (SPAWAR), Washington, DC. |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| B. Program Change Summary                                                                                                                                                                                                                                                                         |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| Previous President's Budget (FY 1996)                                                                                                                                                                                                                                                             |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| Appropriated Value                                                                                                                                                                                                                                                                                |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| Adjustments to Appropriated Value                                                                                                                                                                                                                                                                 |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| Adjustments to Budget Years Since FY96 President's Budget                                                                                                                                                                                                                                         |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| Current Budget Submit/President's Budget                                                                                                                                                                                                                                                          |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| Change Summary Explanation:                                                                                                                                                                                                                                                                       |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| FY95 and FY96 increase due to below threshold reprogramming.                                                                                                                                                                                                                                      |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| FY97 increase due to revised fiscal guidance.                                                                                                                                                                                                                                                     |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| C. Other Program Funding Summary                                                                                                                                                                                                                                                                  |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| Operation and Maintenance:                                                                                                                                                                                                                                                                        |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| FY95 FY96 FY97 Total Cost                                                                                                                                                                                                                                                                         |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| .207 .130 .122 Contg                                                                                                                                                                                                                                                                              |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |
| Page 3 of 7                                                                                                                                                                                                                                                                                       |  |  |  |                                                                     |       |       |       |       |       |                  |                  |            |

Page 3 of 7

UNCLASSIFIED

114

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                 |  |       |       |       |                                                                                                 |       |       |       |                  | DATE: March 1996 |
|---------------------------------------------------------------------------------------------------------------------|--|-------|-------|-------|-------------------------------------------------------------------------------------------------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                             |  |       |       |       | R-1 ITEM NOMENCLATURE<br>Minimum Essential Emergency Communications Network<br>(MEECN)/0303131K |       |       |       |                  |                  |
| COST (in millions)                                                                                                  |  | FY95  | FY96  | FY97  | FY98                                                                                            | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| Strategic C3 Support/T70                                                                                            |  | 3.237 | 2.361 | 2.075 | 2.227                                                                                           | 2.340 | 2.716 | 3.103 | Contg            | Contg            |
| D. Schedule Profile                                                                                                 |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| Events cited below occur in each fiscal year (1995-1997).                                                           |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 1 Qtr - Strategic Mobile Command Center Operation Order completed for Joint Staff.                                  |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 1 Qtr - Strategic Communications Assessment (Polo Hat) completed for Joint Staff                                    |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 1 Qtr - Joint Staff/CINC Staff Assistance Exercise (CINCSpace, CINCSSTRAT, National Airborne Operation Center).     |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 1 Qtr - ASD(C3D) "Nuclear C3 Review" Report.                                                                        |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 1 Qtr - Non-Strategic Communications Exercise completed for Joint Staff.                                            |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 1 Qtr - Final Nuclear C3 System Description completed for Joint Staff.                                              |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 2 Qtr - Nuclear C3 Systems Engineer Annual Report to ASD/C3I.                                                       |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 2 Qtr - Joint Staff/CINC Staff Assistance Exercise (CINCPAC).                                                       |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 2 Qtr - Strategic Communications Assessment (Polo Hat) completed for Joint Staff                                    |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 2 Qtr - Non-Strategic Communications Evaluation CINCEUR.                                                            |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 3 Qtr - Complete Fiber Communications System (FCS).                                                                 |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 3 Qtr - Strategic Communications Assessment (Polo Hat) completed for Joint Staff.                                   |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 3 Qtr - Emergency Communications Procedures CJCS Emergency Action Procedures (EAP) Vol 7 completed for Joint Staff. |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 4 Qtr - Complete Early Pentagon Connectivity Modernization.                                                         |  |       |       |       |                                                                                                 |       |       |       |                  |                  |
| 4 Qtr - NMCS/ DOD Emergency Communications Plan completed for Joint Staff.                                          |  |       |       |       |                                                                                                 |       |       |       |                  |                  |

Page 4 of 7

UNCLASSIFIED

115

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)            |                                         |                          |                         |                    |                                                                                                |             |             |             |                    | DATE: March 1996    |
|---------------------------------------------------------------|-----------------------------------------|--------------------------|-------------------------|--------------------|------------------------------------------------------------------------------------------------|-------------|-------------|-------------|--------------------|---------------------|
| APPROPRIATION/BUDGET ACTIVITY                                 |                                         |                          |                         |                    | R-1 ITEM NOMENCLATURE                                                                          |             |             |             |                    |                     |
| RDT&E, Defense Wide/07                                        |                                         |                          |                         |                    | Minimum Essential Emergency Communications Network (MEECN)/0303131K/Strategic C3 Support (T70) |             |             |             |                    |                     |
| A. <u>Project Cost Breakdown</u>                              |                                         |                          |                         |                    |                                                                                                |             |             |             |                    |                     |
| Project Cost Categories                                       |                                         |                          |                         |                    | <u>FY95</u>                                                                                    | <u>FY96</u> | <u>FY97</u> |             |                    |                     |
| a. Systems Engineering                                        |                                         |                          |                         |                    | 3,237                                                                                          | 2,361       | 2,075       |             |                    |                     |
| TOTAL                                                         |                                         |                          |                         |                    | 3,237                                                                                          | 2,361       | 2,075       |             |                    |                     |
| B. <u>Budget Acquisition History and Planning Information</u> |                                         |                          |                         |                    |                                                                                                |             |             |             |                    |                     |
| Support and Management Organizations                          |                                         |                          |                         |                    |                                                                                                |             |             |             |                    |                     |
| Contractor or Government Performing Activity                  | Contract Method/Type or Funding Vehicle | Award or Obligation Date | Performing Activity EAC | Project Office EAC | Prior to FY95                                                                                  | Budget FY95 | Budget FY96 | Budget FY97 | Budget To Complete | Total Program Contg |
| Multiple Performing Activities                                | SS/C<br>CPAF<br>CPFF<br>MIPR<br>WR      |                          |                         |                    |                                                                                                | 3,237       | 2,361       | 2,075       | Contg              |                     |
| TOTAL PROJECT                                                 |                                         |                          |                         |                    |                                                                                                | 3,237       | 2,361       | 2,075       |                    |                     |

Page 5 of 7

R-1 Shopping List  
UNCLASSIFIED

116

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |      |      |                                                                                              |      |      |      |      |      | DATE: March 1996 |                  |            |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------|------|----------------------------------------------------------------------------------------------|------|------|------|------|------|------------------|------------------|------------|--------------------------------------|------|------|------|------|------|------|------|------|--------------------|--|------|------|------|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|----------------------------------------------------------|--|--|--|--|--|--|--|--|------------------------------------------|--|--|--|--|--|--|--|--|-----------------------------|--------------------------------|--|--|--|--|--|--|--|-----------------------------------------------------|--|--|--|--|--|--|--|--|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |      |      | R-1 ITEM NOMENCLATURE<br>Minimum Essential Emergency Communications Network (MEECN)/0303131K |      |      |      |      |      |                  |                  |            |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |      |      | FY95                                                                                         | FY96 | FY97 | FY98 | FY99 | FY00 | FY01             | Cost of Complete | Total Cost |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |
| Contingency Planning for the President (CPP)/T71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |      |      | *0                                                                                           | .259 | .236 | .255 | .272 | .314 | .359             | Contg            | Contg      |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |
| <p>A. <u>Mission Description &amp; Budget Item Justification:</u><br/>           *This project was transferred from Program Element 0302016K. All aspects of this project are classified and require special access. Therefore, information on this project is not contained in this document but can be obtained upon request.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |      |      |                                                                                              |      |      |      |      |      |                  |                  |            |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |
| <p>B. <u>Program Change Summary</u></p> <table border="0"> <tr> <td>Previous President's Budget (FY1996)</td> <td>FY95</td> <td>FY96</td> <td>FY97</td> <td>FY98</td> <td>FY99</td> <td>FY00</td> <td>FY01</td> <td>FY02</td> </tr> <tr> <td>Appropriated Value</td> <td></td> <td>.222</td> <td>.222</td> <td>.208</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Adjustments to Budget Year since FY96 President's Budget</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Current Budget Submit/President's Budget</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Change Summary Explanation:</td> <td colspan="8">Transferred from P.E. 0302016K</td> </tr> <tr> <td colspan="9">FY96 and FY97 increases due to program adjustments.</td> </tr> </table> |                                |      |      |                                                                                              |      |      |      |      |      |                  |                  |            | Previous President's Budget (FY1996) | FY95 | FY96 | FY97 | FY98 | FY99 | FY00 | FY01 | FY02 | Appropriated Value |  | .222 | .222 | .208 |  |  |  |  | Adjustments to Appropriated Value |  |  |  |  |  |  |  |  | Adjustments to Budget Year since FY96 President's Budget |  |  |  |  |  |  |  |  | Current Budget Submit/President's Budget |  |  |  |  |  |  |  |  | Change Summary Explanation: | Transferred from P.E. 0302016K |  |  |  |  |  |  |  | FY96 and FY97 increases due to program adjustments. |  |  |  |  |  |  |  |  |
| Previous President's Budget (FY1996)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FY95                           | FY96 | FY97 | FY98                                                                                         | FY99 | FY00 | FY01 | FY02 |      |                  |                  |            |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |
| Appropriated Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                | .222 | .222 | .208                                                                                         |      |      |      |      |      |                  |                  |            |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |
| Adjustments to Appropriated Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |      |      |                                                                                              |      |      |      |      |      |                  |                  |            |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |
| Adjustments to Budget Year since FY96 President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |      |      |                                                                                              |      |      |      |      |      |                  |                  |            |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |
| Current Budget Submit/President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |      |      |                                                                                              |      |      |      |      |      |                  |                  |            |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |
| Change Summary Explanation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Transferred from P.E. 0302016K |      |      |                                                                                              |      |      |      |      |      |                  |                  |            |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |
| FY96 and FY97 increases due to program adjustments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |      |      |                                                                                              |      |      |      |      |      |                  |                  |            |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |
| <p>C. <u>Other Program Funding Summary</u></p> <p>Related RDT&amp;E: PE 0302016K in FY95.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |      |      |                                                                                              |      |      |      |      |      |                  |                  |            |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |
| <p>D. <u>Schedule Profile</u></p> <p>Information can be provided upon request.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |      |      |                                                                                              |      |      |      |      |      |                  |                  |            |                                      |      |      |      |      |      |      |      |      |                    |  |      |      |      |  |  |  |  |                                   |  |  |  |  |  |  |  |  |                                                          |  |  |  |  |  |  |  |  |                                          |  |  |  |  |  |  |  |  |                             |                                |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)            |                                                  |                                |                               |                          |                                                                                                                                               |                |                |                |                       | DATE: March 1996 |
|---------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07       |                                                  |                                |                               |                          | R-1 ITEM NOMENCLATURE<br>Minimum Essential Emergency Communications Network (MEECN)/<br>0303131K/Contingency Planning for the President (T71) |                |                |                |                       |                  |
| A. <u>Project Cost Breakdown</u>                              |                                                  |                                |                               |                          | <u>FY95</u>                                                                                                                                   | <u>FY96</u>    | <u>FY97</u>    |                |                       |                  |
| Project Cost Categories                                       |                                                  |                                |                               |                          |                                                                                                                                               |                |                |                |                       |                  |
| a. Systems Engineering                                        |                                                  |                                |                               |                          | 0                                                                                                                                             | 259            | 236            |                |                       |                  |
| TOTAL                                                         |                                                  |                                |                               |                          | 0                                                                                                                                             | 259            | 236            |                |                       |                  |
| B. <u>Budget Acquisition History and Planning Information</u> |                                                  |                                |                               |                          |                                                                                                                                               |                |                |                |                       |                  |
| Support and Management Organizations                          |                                                  |                                |                               |                          |                                                                                                                                               |                |                |                |                       |                  |
| Contractor or<br>Government<br>Performing<br>Activity         | Contract<br>Method/Type<br>or Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Prior to<br>FY95                                                                                                                              | Budget<br>FY95 | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete | Total<br>Program |
| Miscellaneous                                                 |                                                  |                                |                               |                          |                                                                                                                                               | 0              | 259            | 236            |                       |                  |
| Government Furnished Property: N/A                            |                                                  |                                |                               |                          |                                                                                                                                               |                |                |                |                       |                  |
| TOTAL PROJECT                                                 |                                                  |                                |                               |                          |                                                                                                                                               | 0              | 259            | 236            |                       |                  |

Page 7 of 7

Page 7 of 7

R-1 Shopping List  
UNCLASSIFIED

118

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                              |      |       |       |       |       |       |                  | DATE: March 1996 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|------|-------|-------|-------|-------|-------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | R-1 ITEM NOMENCLATURE        |      |       |       |       |       |       |                  |                  |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | C4I for the Warrior/0303149K |      |       |       |       |       |       |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | FY95                         | FY96 | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |
| Joint C3I Surveillance & Reconnaissance/D8A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 0                            | 0    | 2.907 | 2.884 | 2.861 | 2.837 | 2.814 | Contig           | Contig           |
| <p><b>A. Mission Description &amp; Budget Item Justification:</b> C4I for the Warrior (C4IFTW) is a new initiative that promotes joint and coalition C4I interoperability. This effort supports the Joint Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Battle Center and will assimilate demonstrations and experiments of large scale engineering required for architecture development of Joint warfighting systems integration which leverage C4ISR. The Center provides comprehensive joint warfighting capability that maintains a competitive military advantage dependent on the ability to effectively field evolutionary systems and equipment which assure joint operational capability dominance by quickly organizing and testing innovative C4ISR concepts. The Center will ensure that as new C4ISR concepts surface, these concepts will be developed to share all C4ISR information with precision force generators which will engender a powerful environment for Joint operational innovations. Industry driven technology advancements dictate rapid insertion into the DOD C4ISR infrastructure to maintain this competitive advantage. The Center will support experiments in mission, mission support and technology with actual battle scenarios and assessment specific parameters, utilizing the latest technology insertion and applications to provide a consistently improving state of readiness for the joint warfighter. Furthermore, the Center will reduce overlap in modeling and simulation efforts among the Military Services. This program element is under Budget Activity 07 because it supports operational systems development.</p> <p>(U) <u>FY 1995 Accomplishments:</u> N/A</p> <p>(U) <u>FY 1996 Accomplishments:</u> N/A</p> <p>(U) <u>FY1997 Plans:</u></p> <p>o Strategic Plan for global interoperability for US military forces during deployment and resolving C4I interoperability issues (\$2,907K)</p> |  |                              |      |       |       |       |       |       |                  |                  |

UNCLASSIFIED

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                       |      |       |       |       |       |       |                  | DATE: March 1996 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------|------|-------|-------|-------|-------|-------|------------------|------------------|--|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | R-1 ITEM NOMENCLATURE<br>C4I for the Warrior/0303149K |      |       |       |       |       |       |                  |                  |  |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                       |      |       |       |       |       |       |                  |                  |  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | FY95                                                  | FY96 | FY97  | FY98  | FY99  | FY00  | FY01  | Cost of Complete | Total Cost       |  |
| Joint C3I Surveillance and Recon. /D8A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 0                                                     | 0    | 2.907 | 2.884 | 2.861 | 2.837 | 2.814 | Contg            | Contg            |  |
| <p><b>B. Program Change Summary</b></p> <p>Previous President's Budget (FY 1996)<br/> Appropriated Value<br/> Adjustments to Appropriated Value<br/> Adjustments to Budget Year Since FY 1996 President's Budget<br/> Current Budget Submit/President's Budget<br/> Change Summary Explanation:</p> <p>Funding: FY97 change due to new start of PE 0303149K.</p> <p>Schedule: N/A<br/> Technical: N/A</p> <p><b>C. Other Program Funding Summary</b></p> <p>O&amp;M<br/> Procurement</p> <p><b>D. Schedule Profile</b></p> <p>(U) FY 1995 Not applicable<br/> (U) FY 1996 Not applicable<br/> (U) FY 1997<br/> o 1st Quarter - Execute contract support</p> |  |                                                       |      |       |       |       |       |       |                  |                  |  |

Page 2 of 3

UNCLASSIFIED

120

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)               |                                                  |                                |                               |                          |                                                                                          |                |                |                |                       | DATE: March 1996 |  |
|------------------------------------------------------------------|--------------------------------------------------|--------------------------------|-------------------------------|--------------------------|------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------------|------------------|--|
| APPROPRIATION/BUDGET ACTIVITY<br>RDT&E, Defense Wide/07          |                                                  |                                |                               |                          | R-1 ITEM NOMENCLATURE<br>C4I for the Warrior/0303149K/Joint C3I Surveillance & Recon/D8A |                |                |                |                       |                  |  |
| A. <u>Project Cost Breakdown</u> (\$000)                         |                                                  |                                |                               |                          | FY95                                                                                     |                | FY96           |                | FY97                  |                  |  |
| Systems Engineering                                              |                                                  |                                |                               |                          | 0                                                                                        |                | 0              |                | 2,907                 |                  |  |
| B. <u>Budget Acquisition History and Planning Information</u>    |                                                  |                                |                               |                          |                                                                                          |                |                |                |                       |                  |  |
| Contractor or<br>Government<br>Performing<br>Activity<br>Program | Contract<br>Method/Type<br>or Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Prior to<br>FY95                                                                         | Budget<br>FY95 | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete | Total            |  |
| All Other Contracts                                              |                                                  |                                |                               |                          | 0                                                                                        | 0              | 0              | 2,907          | Contig                | Contig           |  |
| Subtotal Contracts                                               |                                                  |                                |                               |                          | 0                                                                                        | 0              | 0              | 2,907          |                       |                  |  |
| In House Engineering & Technical Support: N/A                    |                                                  |                                |                               |                          | 0                                                                                        | 0              | 0              | 2,907          |                       |                  |  |
| TOTAL PROJECT                                                    |                                                  |                                |                               |                          |                                                                                          |                |                |                |                       |                  |  |

Page 3 of 3

Page 3 of 3

UNCLASSIFIED

121

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                |       |      |      |      |      |      |                  | DATE: March 1996 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------|-------|------|------|------|------|------|------------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | R-1 ITEM NOMENCLATURE          |       |      |      |      |      |      |                  |                  |
| RDT&E, Defense Wide/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | Joint Spectrum Center/0303153K |       |      |      |      |      |      |                  |                  |
| COST (in millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | FY95                           | FY96  | FY97 | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost       |
| Joint Spectrum Center PE 0303153K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | *                              | 4.712 | *    | *    | *    | *    | *    | Contg            | Contg            |
| <p>A. <u>Mission Description &amp; Budget Item Justification:</u> (U) The Joint Spectrum Center (JSC) serves as the DOD focal point for electromagnetic (EM) spectrum management matters in support of the Unified Commands, Military Departments, and Defense Agencies in planning, acquisition, training, and operations. Specifically, the Center designs, develops, and maintains DOD automated spectrum management systems, evaluation tools, and databases employed by the Services, DOD Agencies, and Unified Commands. The JSC databases are the prime sources of information for DOD use of the EM spectrum. The JSC provides advice and assistance to DOD activities to ensure development and acquisition of electromagnetically compatible systems and for the effective deployment of these systems in military operations. This Center is the focal point for spectrum related support, Electromagnetic Environmental Effects (E<sup>3</sup>), and EM interference resolution assistance to operational units including deployable support to CINC Joint Task Forces. Its mission is integral to other vital activities such as Information Warfare (IW), Command and Control (C<sup>3</sup>) Protect and other defensive C<sup>3</sup> warfare activities as directed by the Joint Staff. This program element is under Budget Activity 07 because it involves efforts supporting operational systems development.</p> <p>*NOTE: FY95 RDT&amp;E funding was budgeted within the Air Force under PE 0303144F, Electromagnetic Compatibility Analysis Center (ECAC) which was renamed the Joint Spectrum Center effective 28 Sep 94. DOD transferred funds and Executive Agent responsibility from the Air Force to DISA for the JSC and, effective FY96, PE 0303153K for the JSC was established under DISA. However, FY 1997 and outyear funds will be transferred back to the Air Force effective FY97.</p> <p>(U) FY 1995 Plans: EFFORT ACCOMPLISHED UNDER PE 0303144F</p> <p>(U) FY 1996 Plans: (\$ in Millions)</p> <ul style="list-style-type: none"> <li>o Continuous improvement of the Frequency Resource Record System and other DOD EMC databases will be accomplished in accordance with requirements of the CINCs and Services, including some hardware improvements to replace aging equipment. \$3.212M (Continuing)</li> <li>o Limited support for management of DOD E<sup>3</sup> Program including development of a strategic plan, conduct conferences, coordinate EMC, Ordnance and Personnel Hazards efforts, and development of models and simulations to support E<sup>3</sup> analyses. \$1.5M (Continuing)</li> </ul> <p>\$4.712M Total</p> <p>(U) FY 1997 Plans: EFFORT TO BE ACCOMPLISHED UNDER PE 0303144F</p> <p>Acquisition Strategy: Full and open competitive procurement of the contractual support for the Center.</p> |  |                                |       |      |      |      |      |      |                  |                  |

UNCLASSIFIED



UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)                   |  |                                                         |       |      |      |      |      |      |                  | DATE: March 1996 |  |
|-----------------------------------------------------------------------|--|---------------------------------------------------------|-------|------|------|------|------|------|------------------|------------------|--|
| APPROPRIATION/BUDGET ACTIVITY                                         |  | R-1 ITEM NOMENCLATURE<br>Joint Spectrum Center/0303153K |       |      |      |      |      |      |                  |                  |  |
| COST (in millions)                                                    |  | FY95                                                    | FY96  | FY97 | FY98 | FY99 | FY00 | FY01 | Cost of Complete | Total Cost       |  |
| Joint Spectrum Center PE 0303153K                                     |  | *                                                       | 4.712 | *    | *    | *    | *    | *    | Contg            | Contg            |  |
| D. Schedule Profile                                                   |  | 1995                                                    |       | 1996 |      | 1997 |      |      |                  |                  |  |
|                                                                       |  | 1                                                       | 2     | 3    | 4    | 1    | 2    | 3    | 4                |                  |  |
| Contract Milestones                                                   |  |                                                         |       |      |      |      |      |      |                  |                  |  |
| Improve Frequency Resource Record System and other DoD EMC data bases |  |                                                         |       |      |      | X    | X    | X    | X                |                  |  |
| Electromagnetic Environmental Effects Analyses Support                |  |                                                         |       |      |      | X    | X    | X    | X                |                  |  |

**\*NOTE:** FY95 RDT&E funding was budgeted within the Air Force under PE 0303144F, Electromagnetic Compatibility Analysis Center (ECAC) which was renamed the Joint Spectrum Center effective 28 Sep 94. Funds and Executive Agent responsibility were transferred from the Air Force to DISA effective FY96, (PE 0303153K); however, they will be transferred back to the Air Force effective FY97.

UNCLASSIFIED

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)            |                                               |                                |                               |                          |                                |                |                |                                |                           | DATE: March 1996 |  |
|---------------------------------------------------------------|-----------------------------------------------|--------------------------------|-------------------------------|--------------------------|--------------------------------|----------------|----------------|--------------------------------|---------------------------|------------------|--|
| APPROPRIATION/BUDGET ACTIVITY                                 |                                               |                                |                               |                          | R-1 ITEM NOMENCLATURE          |                |                |                                |                           |                  |  |
| RDT&E, Defense Wide/07                                        |                                               |                                |                               |                          | Joint Spectrum Center/0303153K |                |                |                                |                           |                  |  |
| A. <u>Project Cost Breakdown (\$ in Thousands)</u>            |                                               |                                |                               |                          |                                |                |                |                                |                           |                  |  |
| Contractor Engineering Support                                |                                               |                                |                               |                          | FY95                           |                | FY96           |                                | FY97                      |                  |  |
| Total Project Cost                                            |                                               |                                |                               |                          |                                |                | 4,712          |                                | 4,712                     |                  |  |
| B. <u>Budget Acquisition History and Planning Information</u> |                                               |                                |                               |                          |                                |                |                |                                |                           |                  |  |
| Contractor or<br>Government<br>Performing or<br>Activity      | Contract<br>Method/Type<br>Funding<br>Vehicle | Award or<br>Obligation<br>Date | Performing<br>Activity<br>EAC | Project<br>Office<br>EAC | Budget<br>FY95                 | Budget<br>FY96 | Budget<br>FY97 | Budget To<br>Complete<br>Contg | Total<br>Program<br>Contg |                  |  |
| III Research<br>Institute                                     | C/CPAF/<br>MIPR                               | 17May95                        |                               |                          |                                | 4,712          |                |                                |                           |                  |  |
| All Other Contracts                                           |                                               |                                |                               |                          |                                |                |                |                                |                           |                  |  |
| Total Contracts                                               |                                               |                                |                               |                          |                                |                | 4,712          |                                |                           |                  |  |
| Test and Evaluation Organizations                             |                                               |                                |                               |                          |                                |                | 4,712          |                                |                           |                  |  |

Page 4 of 4

Page 4 of 4

R-1 Shopping List  
UNCLASSIFIED

125