



Scientific and Technical Report for the Belvoir Task Order Tracking System (BTOTS)

15 October 1993

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Prepared for the US Army Belvoir Research,
Development, and Engineering Center under Contract
number: DAAK70-92-D-0003, task order number 0016.

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The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the Government.

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**Scientific and Technical Report Summary
for the
Belvoir Task Order Tracking System
(BTOTS)**

Prepared for the US Army Belvoir Research,
Development, and Engineering Center under Contract
number: DAAK70-92-D-0003, task order number 0016.
30 December 1992 to 31 October 1993

by

J. Fred Clodfelter (703) 205-1535

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Scientific and Technical Report Summary for the Belvoir Task Order Tracking System (BTOTS)

1. OBJECTIVE

The Belvoir Research Development and Engineering Center (BRDEC) uses several Time and Material (T&M) contracts for engineering services. Managing the great number of tasks requires excessive manpower. BRDEC determined that it needed an automated software system to help manage these tasks. The system was named the Belvoir Task Order Tracking System (BTOTS).

BTOTS was to be an easy to use and understand software application that automated cost and schedule information for four of BRDEC's T&M contracts. The software was to produce automated management reports, graphs, and charts from monthly invoice inputs that are supplied by each of the T&M contractors. The software was to be documented in a technical report, users' guide, and maintenance manual.

2. PROCEDURE

BRTRC developed BTOTS to meet and exceed the needs specified above. BTOTS was developed in Clipper and uses XBASE (DBASE, FOXBASE,...) database files to store the cost, schedule, and other contract data. A graphics library, DGE, was used for producing hardcopy and on-screen graphs. BRTRC developed BTOTS in stages that would allow BRDEC to review and use the database as early as possible. The features developed in each stage are described below:

- (1) On-paper design of skeleton system,
- (2) Develop data entry sections,
- (3) Develop graphs and reports sections,
- (4) Develop networking capability,
- (5) Enter remainder of online help and make recommended revisions, and
- (6) Document.

3. RESULTS

BRTRC designed, built, and documented the Belvoir Task Order Tracking System (BTOTS). The system was installed on BRDEC's network and is being used with great success.

BRTRC documented BTOTS in three volumes, the: User's Guide, Scientific and Technical Report, and Maintenance Manual.

INTRODUCTION

The Belvoir Research Development and Engineering Center (BRDEC) uses several Time and Material (T&M) contracts for engineering services. Several audits have been performed to review management of these contracts and deficiencies were found. BRDEC determined that it needed an automated software system to help manage these tasks. This document is the Scientific and Technical report that describes this automated system. The report is kept brief and describes the background, development of, and information contained in the automated system. Additional information can be found in the user's guide and maintenance manuals that are also deliverables for this software.

SCOPE

The scope of this effort was to design, develop, and document an easy to use and understand software application that automated cost and schedule information for four of BRDEC's T&M contracts. The software was to produce automated management reports, graphs, and charts from monthly invoice inputs that are supplied by each of the T&M contractors. The software was to be documented in a technical report, users' guide, and maintenance manual.

DEVELOPING BTOTS

BRTRC developed the Belvoir Task Order Tracking System (BTOTS) to meet and actually exceed the needs specified above. BTOTS runs on IBM compatible personal computers in a stand-alone or network environment. BTOTS was developed in Clipper and uses XBASE (DBASE, FOXBASE,...) database files to store the cost, schedule, and other contract data. A graphics library, DGE, was used for producing hardcopy and on-screen graphs. BRTRC has much experience developing applications with features common to BTOTS and used a proprietary library of functions. BRTRC developed BTOTS in stages that would allow BRDEC to review and use the database as early in as possible. The features developed in each stage are described below:

- (1) On-paper design of skeleton system,
- (2) Develop data entry sections,
- (3) Develop graphs and reports sections,
- (4) Develop networking capability,
- (5) Enter remainder of online help and make recommended revisions, and
- (6) Document.

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DEI		☐
Unan		☐
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By		
Distributed		
Availability Codes		
Dist	Avail or Special	
A-1		

The first part of BTOTS that was developed was the data entry sections. This let the users see and experiment with the layout of the system. This early draft data entry version was demonstrated and useable within a few weeks after task award. While BRDEC was reviewing the data entry sections of BTOTS, BRTRC developed the graphs and reports. A few weeks after the data entry sections were briefed and ready for review, BRTRC delivered a version that had the graphs and reports generation sections available for review. The next step was to add the ability to use BTOTS in a network environment and the final step will be to input the remainder of on-line help and make necessary changes as required by BRDEC.

MEETING THE REQUIREMENTS

BRTRC developed BTOTS to assist in the surveillance of four (actually up-to hundreds) T&M contracts (BRTRC, VITRO, RADIANT, and VSE). BRTRC's contract data was entered into BTOTS first and BTOTS was presented for government review. BTOTS was built so any number of contracts can be entered as needed. One of the options on BTOTS's menu is to add a new contract.

BRTRC designed the structure and organization of the database to be flexible enough to accommodate all requirements stated in the statement of work. BRTRC developed and planned for the future requirements that were specified in the statement of work. The future requirements were to add non-T&M contracts to the database and to develop the ability to limit access to various data. BRTRC actually developed the ability to restrict access to certain information. BTOTS was made flexible and robust enough to implement non-T&M contracts management functions in the future.

BTOTS lets BRDEC personnel input, edit, update, change and query data by contract and task through input forms. The input forms have necessary data validation features and on-line help available for each field in the database.

Several sample screens from BTOTS are shown in Appendix A.

CONTRACT DATA

BTOTS allows for easy input and retrieval of the specified contract. The fields or kinds of information is described below.

(1) Labor cost per hour per category. The database can handle up to 99 labor categories for any number of option years, although only 36 categories were required by the statement of work. The option years can change at discrete dates and do not actually have to be option years. The option period is defined by an effective date for each set of labor rates. The correct rates are selected depending on the date of the invoice.

(2) General contractor data includes the award date of contracts and tasks, the

contractors name and address, option periods, and a basic statement describing the type of work performed for the contract. Additional data may also be stored including phone/FAX numbers, withholding percentages and ceilings, and POC information.

(3) Data deliverables information includes: deliverable description, due dates, delivered dates, data item numbers, and authority numbers.

TASK DATA

The following task order data is entered when the task is awarded or modified except where noted:

(1) General information includes: name, office symbol, and phone/FAX numbers for the Technical Advisor, Contractor POC, and COR POC; original award dates; completion dates; amounts; delivery information (original delivery date, current delivery date, actual delivery date, type of transmittal document); and COR comments.

(2) Proposed cost and schedule data includes the ability to schedule expected spending. BTOTS lets you select from five standard schedules (straight-line, spend-early, spend-late, spend-middle, spend-ends) and it automatically calculates monthly expenditures to fit the schedules. The user has the flexibility to project spending in any way in increments greater than or equal to one day.

MONTHLY CONTRACTORS' INVOICE DATA

Monthly contractors' invoice data includes: the task number, billing period, total contractors obligated, total accrued, total disbursed, total withheld, other direct costs (ODCs), and hours expended by each labor category. This data is imported by ASCII text files. Once this data is imported, the user may enter monthly comments.

OUTPUT

BTOTS contains reports and graphs which can be viewed on-screen, printed on paper, or sent to a text file for later printing or importing in another document. Reports include ones showing the following: detailed task order information, delivery information, invoice data, table of monthly expenditures, modification data, COR comments, close out information, summary of tasks orders, contract summary, COR monthly report, and the management health report. These reports have been redesigned and, although they exceed, they do not exactly match the sample reports described in the statement of work. Sample reports are included in Appendix B.

BTOTS lets the user selectively print these reports using several fields such as the: POC names, office symbols, and task titles. The office symbol field can be used to select reports by

directorate, lab, office, or POC.

DATABASE SOFTWARE

BRTRC provided all software products necessary to use and maintain BTOTS. This included the application, the source code documented to the procedure level, and the ancillary object files.

DOCUMENTATION

The database software documentation includes: this technical report, an end user's manual, and a maintenance manual in accordance with DOD-STD-7935A.

APPENDIX A

SAMPLE BTOTS SCREENS

BELVOIR Task Order Tracking System - V1.0

Developed For US Army BRDEC

BRTRC
370 West Maple Avenue
Vienna, Virginia 22180
(703) 938-2101

Strike Any Key to Begin

BELVOIR Task Order Tracking System - V1.0

**** MAIN MENU ****

1. Select a Contract
2. Add a Contract
3. Database Management
4. Setup
5. Help
6. Exit

<F1> - Help

BRTRC, 370 West Maple Avenue, Vienna, Va. 22180 (703) 938-2014

BELVOIR Task Order Tracking System - V1.0

CONTRACT: DAAK70-92-D-0003 BRTRC

1. View/Edit/Analyze Tasks
2. Task Reports
3. Rollup Chart
4. Input Invoices
5. View/Edit Rates
6. View/Edit Contract Description
7. Contract Report
8. Database Management
9. Exit

<F1> - Help

BELVOIR Task Order Tracking System - V1.0

TASKS FOR DAAK70-92-D-0003 BRTRC

Task#: 0007

Title: QUICK

Summary:

Tech Advisor (TA)	Contractor	COR
POC: Ed Starkovich	Fred Clodfelter	
Phone: (703) 704-1994	(703) 938-2101	
FAX: (703) 704-3794	(703) 938-2050	
Office: STRBE-FEA		

Award Date:	07/10/92		
Original Complete Date:	01/31/93	Original Award Amt:	98813.00
Current Complete Date:	08/31/93	Current Award Amt:	98813.00

Balance Contr's Obligated:	30954.81	Original IGCE:	0.00
Balance Accrual:	78685.65	Current IGCE:	0.00
Balance Disbursed:	79188.84	Flag:	PMS#: 0

Goto Edit Browse Rpt Add Delivs Invc's Mods COR Close Spend
View/Edit/Graph Invoices

BELVOIR Task Order Tracking System - V1.0

TASKS FOR DAAK70-92-D-0003 BRTRC
 Task#: 0001 Title: BPM

Summary:

DELIVERABLES FOR TASK#: 0001		TRACK	TRANS	ORIG	DUE
PROGRESS STATUS MEETING REPORT		N		/	/
CONTRACTOR'S PROGRESS, STATUS, & MANAGEMENT REPORT		N		/	/
TEST					08/01/93
DRAFT SCIENTIFIC AND TECHNICAL REPORTS					09/01/93
DRAFT COMPUTER SOFTWARE END ITEMS					09/01/93
DRAFT SCIENTIFIC AND TECHNICAL REPORTS SUMMARY					09/01/93
FINAL SCIENTIFIC AND TECHNICAL REPORTS					09/30/93
FINAL COMPUTER SOFTWARE END ITEMS					09/30/93
FINAL SCIENTIFIC AND TECHNICAL REPORTS SUMMARY					09/30/93

Arrow Keys Scroll Up, Down, Left, and Right
 <F10> - Deletes a line Add at bottom

BELVOIR Task Order Tracking System - V1.0

TASKS FOR DAAK70-92-D-0003 BRTRC
 Task#: 0001 Title: BPM

Summary:

INVOICED RUNNING TOTALS CEILING=121721.00 FOR TASK#: 0001					
BILL DATE	PERCENT COMPLETE	CONTRACTOR'S OBLIGATED	ACCRUAL	DISBURSED	WITHHELD
04/30/92	10	10036.61	10036.61	0.00	250.92
05/31/92	17	22540.21	22540.21	9785.69	312.59
06/30/92	27	30121.27	30121.27	21976.70	189.53
07/31/92	30	33107.08	33107.09	26806.81	74.65
08/31/92	32	36153.99	36154.00	30978.27	76.17
09/30/92	34	39149.08	39149.09	33157.61	74.88
10/31/92	36	43501.06	43501.07	34214.67	108.80
11/30/92	47	54153.52	54153.53	42413.55	266.31
12/31/92	57	66652.04	66652.05	52799.69	312.46

Arrow Keys Scroll Up, Down, Left, and Right
 <F10> - Deletes a line Add at bottom

BELVOIR Task Order Tracking System - V1.0

Task#: 0001 Title: BPM

Summary:

MODS FOR TASK#: 0001					MODS COMMENTS
MOD#	MOD#	TYPE OF MOD	NEW DATE	NEW AMOUNT	
101	09/30/92	D	/ /	68198.00	
102	12/28/92	D	/ /	121721.00	

Arrow Keys Scroll Up, Down, Left, and Right
<F10> - Deletes a line Add at bottom

BELVOIR Task Order Tracking System - V1.0

Task#: 0001 Title: BPM

Summary:

COR COMMENTS FOR TASK#: 0001				
DATE	LAST INDEP TA REVIEW	EVALUATED	PROBLEMS	
01/01/93	/ /	N	N	

Arrow Keys Scroll Up, Down, Left, and Right
<F10> - Deletes a line Add at bottom

BELVOIR Task Order Tracking System - V1.0

Task#: 0001 Title: BPM TASKS FOR DAAK70-92-D-0003 BRTRC

CLOSEOUT INFORMATION

DD250 Number: on: / /
 Sent to KO: Performance Rating [1..10]:
 Closed [Y/N]: Product Rating [1..10]:

TA Accepted [Y/N]: on: / /
 TA Comments:

COR Inspected [Y/N]: on: / /
 COR Rating [1..10]:
 COR Comments:

Balance Disbursed: 121721.00 Flag: PMS#: 0

Press any key to continue

BELVOIR Task Order Tracking System - V1.0

Using TA POC = DREXEL*

REPORTS FOR DAAK70-92-D-0003 BRTRC

1. Task Detailed Report
2. Task Abbreviated Report
3. COR Monthly Report to Contracting Officer
4. *Summary of Task Orders
5. Delivery Information
6. Contract Summary Information
7. *Contract Summary DD250 Report
8. *Contract Summary Evaluation Report
9. Management Health Report

<F1> - Help

BELVOIR Task Order Tracking System - V1.0

CONTRACT DAAK70-92-D-0003 BRTRC

Contract#: DAAK70-92-D-0003
Contractor: BRTRC
Title: THIS IS THE TITLE

Ceiling: 1000000.00 Withhold Ceiling: 0.00
Awarded: 04/01/92 Withhold Fraction: 0.000
Ends: 01/01/94

Street: 370 MAPLE AVENUE, WEST
City: VIENNA
State: VIRGINIA

Zip: 22180 POC: DENISE OLIVER-STYERS
Phone: (703) 938-2014 POC Phone: (703) 938-2042
FAX: (703) 938-2050 POC FAX: (703) 938-2050

APPENDIX B

SAMPLE BTOTS REPORTS

TASK DETAIL REPORT FOR CONTRACT# DAAK70-92-D-0003

06/01/93

Task#: 0001 Title: BPM

Summary:

Tech Advisor
 POC: Donna Dodge
 Phone: (703) 704-1067
 FAX:
 Office: STRB-NDD

Contractor
 POC: Neil Romstedt
 Phone: (703) 938-2142
 FAX: (703) 938-2050

COR
 POC:
 Phone:
 FAX:
 Office:

Award Date: 04/02/92	Original Award Amt: 39524.00	Balance Less Committed: 55068.96
Original End Date: 09/30/93	Current Award Amt: 121721.00	Balance Less Billed: 55068.95
Current End Date: 09/30/93		Balance Less Paid: 68921.31

Original IGCE: 0.00	Current IGCE: 0.00	PMS#: 0
---------------------	--------------------	---------

****DELIVERABLES****

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORTS	09/01/93	09/01/93	/ /	
DRAFT COMPUTER SOFTWARE END ITEMS	09/01/93	09/01/93	/ /	
DRAFT SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	09/01/93	09/01/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORTS	09/30/93	09/30/93	/ /	
FINAL COMPUTER SOFTWARE END ITEMS	09/30/93	09/30/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	09/30/93	09/30/93	/ /	

****INVOICES****

BILL DATE	% COMPLETE	INVOICE	COMMITTED	BILLED	PAID	LABOR	ODC	GA
12/31/92	57%	12498.52	66652.04	66652.05	52799.69	12498.52	0.00	0.00
11/30/92	47%	10652.46	54153.52	54153.53	42413.55	10652.46	0.00	0.00
10/31/92	36%	4351.98	43501.06	43501.07	34214.67	4351.98	0.00	0.00

****MODS****

MOD	MOD DATE	MOD TYPE	NEW DATE	NEW AMOUNT	COMMENTS
101	09/30/92	D	/ /	68198.00	
102	12/28/92	D	/ /	121721.00	

TASK DETAIL REPORT FOR CONTRACT# DAAK70-92-D-0003

06/01/93

(continued)

****COR COMMENTS****

<u>COMMD</u>	<u>REVIEW</u>	<u>TA EVALUATION</u>	<u>PROBLEMS</u>	<u>COMMENTS</u>
01/01/93	/ /	N	N	THIS IS A TEST OF THE COR COMMENTS SECTION OF THE STOTS DATABASE

TASK ABBREVIATED REPORT FOR CONTRACT# DAAK70-92-D-0003

06/01/93

Task#: 0001 Title: BPM

Summary:

Tech Advisor
POC: Donna Dodge
Phone: (703) 704-1067
FAX:
Office: STRB-MDO

Contractor
POC: Neil Romstedt
Phone: (703) 938-2142
FAX: (703) 938-2050

COR
POC:
Phone:
FAX:
Office:

Award Date:	04/02/92	Original Award Amt:	39524.00	Balance Less Committed:	55068.96
Original End Date:	09/30/93	Current Award Amt:	121721.00	Balance Less Billed:	55068.95
Current End Date:	09/30/93			Balance Less Paid:	68921.31

Percent Complete: 57% as of: 12/31/92

COR Comments: THIS IS A TEST OF THE COR COMMENTS SECTION OF THE STOTS DATABASE

TASK MOD TITLE	TA RPRT	AWARDED/ DUE	INHOUSE POC	CURRENT AWARD AMT	BALANCE LESS CONTR'S OBLG	LAST COR REVIEW	COR COMMENTS
0001 2 BPM	N	04/02/92 09/30/93	Donna Dodge (703) 704-1067	121721.00	55068.95	01/01/93	THIS IS A TEST OF THE COR COMMENTS SECTION OF THE BTOTS DATABASE
0002 1 NPM		04/14/92 04/30/93	Mark Purdy (703) 704-1058	99983.00	31100.50	/ /	
0003 1 SAPLIC		05/06/92 12/30/92	Robert Thomas (703) 704-6873	118795.00	5.54	/ /	
0004 1 ATLAS		05/01/92 01/31/93	Dave Krawchuck (703) 704-2314	194169.00	23619.83	/ /	
0005 0 RDA		06/09/92 06/07/93	Susie Shepherd (703) 704-2134	25375.00	14364.94	/ /	
0006 1 FLASH		07/08/92 11/30/92	Gary Snyder (703) 704-2579	15039.00	1261.87	/ /	
0007 1 QUICK		07/10/92 08/31/93	Ed Starkovich (703) 704-1994	98813.00	78685.65	/ /	
0008 0 DEGS		07/21/92 12/31/92	Bart Leggett (703) 704-1862	15079.00	16.90	/ /	
0009 0 HBB		07/31/92 12/31/92	John Stanek (703) 704-2562	92424.01	0.00	/ /	
0010 1 CMPA		08/31/92 02/18/93	Charlie Gardner (703) 704-2784	50832.00	23113.37	/ /	
0011 1 MTB		09/30/92 01/31/93	John Stanek (703) 704-2562	24952.00	4332.82	/ /	
0012 0 FLASH 2		11/13/92 09/30/93	Gene Kleger (703) 704-2578	79362.00	75477.12	/ /	
0013 0 GLPS		11/20/92 11/19/93	Edwin Huth (703) 704-2602	75800.00	73710.05	/ /	
0014 1 MSCS		11/25/92 11/28/93	Jose' Rivera-Cotto (703) 704-2571	99883.00	95971.42	/ /	
0015 0 MNCH		12/15/92 06/15/93	Brian Green (703) 704-2474	104703.00	99156.18	/ /	
0016 0 BTOTS		/ / / /	Drexel Dodge (703) 704-3462	0.00	0.00	/ /	

(continued)

TASK MOD TITLE	TA RPRT	AWARDED/ DUE	INHOUSE POC	CURRENT AWARD AMT	BALANCE LESS CONTR'S OBLG	LAST REVIEW	COR COR	COMMENTS
0017 0 CMPP	/	/	Tom Severidge	0.00	0.00	/	/	
	/	/	(703) 704-1970					
0018 0 FARV	/	/	William Purdue	0.00	0.00	/	/	
	/	/	(703) 704-2841					
0019 0 MCCD	/	/	Jeffrey Smith	0.00	0.00	/	/	
	/	/	(703) 704-1454					

TASK DELIVERABLES FOR CONTRACT# DAAK70-92-D-0003

06/01/93

DELIVERABLES ALL

Task#: 0001 Title: BPM

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORTS	09/01/93	09/01/93	/ /	
DRAFT COMPUTER SOFTWARE END ITEMS	09/01/93	09/01/93	/ /	
DRAFT SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	09/01/93	09/01/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORTS	09/30/93	09/30/93	/ /	
FINAL COMPUTER SOFTWARE END ITEMS	09/30/93	09/30/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	09/30/93	09/30/93	/ /	

Task#: 0002 Title: HPM

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORT	02/15/93	02/15/93	/ /	
DRAFT SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	02/15/93	02/15/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORT	03/27/93	03/27/93	/ /	
COMPUTER PRODUCT SOFTWARE END ITEMS	03/27/93	03/27/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	03/27/93	03/27/93	/ /	

Task#: 0003 Title: SAPLIC

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORT 1	06/20/92	06/20/92	06/20/92	
DEMO COMPUTER SOFTWARE PRODUCT END ITEMS	06/20/92	06/20/92	06/20/92	
DRAFT PROGRAM PLAN	06/20/92	06/20/92	06/20/92	
FINAL SCIENTIFIC AND TECHNICAL REPORT 1	07/20/92	07/20/92	07/20/92	
FINAL COMPUTER SOFTWARE PRODUCT END ITEMS	07/20/92	07/20/92	07/20/92	
FINAL PROGRAM PLAN	07/20/92	07/20/92	07/20/92	
SCIENTIFIC AND TECHNICAL REPORT 2	08/23/92	08/23/92	08/23/92	

Task#: 0004 Title: ATLAS

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORT 1	05/21/92	05/21/92	05/21/92	
FINAL SCIENTIFIC AND TECHNICAL REPORT 1	05/31/92	05/31/92	05/31/92	
DRAFT SCIENTIFIC AND TECHNICAL REPORT 2	09/07/92	09/07/92	09/07/92	
DRAFT PRESENTATION MATERIALS	09/07/92	09/07/92	09/07/92	

TASK DELIVERABLES FOR CONTRACT# DAAK70-92-D-0003

06/01/93

(continued)

DELIVERABLES ALL

Task#: 0005 Title: RDA

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORT	05/08/93	05/08/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORT	06/07/93	06/07/93	/ /	

Task#: 0006 Title: FLASH

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	12/26/92	12/26/92	12/26/92	
DRAFT SCIENTIFIC AND TECHNICAL REPORT	01/05/93	01/05/93	01/05/93	

Task#: 0007 Title: QUICK

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
FINAL SCIENTIFIC AND TECHNICAL REPORTS	01/06/93	08/06/93	/ /	
INCORPORATION OF S&T TECH. REPORTS COMMENTS	01/31/93	08/31/93	/ /	
COMPUTER SOFTWARE PRODUCT END ITEMS	01/31/93	08/31/93	/ /	
DOCUMENTATION OF COMMERCIALY AVAILABLE OR	01/31/93	08/31/93	/ /	
INCORPORATION OF COMMENTS	02/25/93	09/25/93	/ /	

Task#: 0008 Title: DEGS

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORTS	10/14/92	10/14/92	10/14/92	
DRAFT SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	10/14/92	10/14/92	10/14/92	
FINAL SCIENTIFIC AND TECHNICAL REPORTS	10/29/92	10/29/92	10/29/92	
FINAL SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	10/29/92	10/29/92	10/29/92	

Task#: 0009 Title: HBB

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORTS	12/31/92	12/31/92	12/31/92	

TASK DELIVERABLES FOR CONTRACT# DAAK70-92-D-0003

06/01/93

(continued)

DELIVERABLES ALL

Task#: 0010 Title: CMPA

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORT	12/01/92	01/20/93	01/20/93	
DRAFT SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	12/01/92	01/20/93	01/20/93	
FINAL SCIENTIFIC AND TECHNICAL REPORT	12/31/92	02/18/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	12/31/92	02/18/93	/ /	

Task#: 0011 Title: MTB

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORTS	01/06/93	01/06/93	01/06/93	
DRAFT SCIENTIFIC AND TECHNICAL REPORTS	01/06/93	01/06/93	01/06/93	
FINAL SCIENTIFIC AND TECHNICAL REPORTS	01/31/93	01/31/93	01/31/93	
FINAL SCIENTIFIC AND TECHNICAL REPORTS	01/31/93	01/31/93	01/31/93	

Task#: 0012 Title: FLASH 2

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORT	03/13/93	03/13/93	/ /	
DRAFT SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	03/13/93	03/13/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORT	04/12/93	04/12/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	09/30/93	09/30/93	/ /	

Task#: 0013 Title: GLPS

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORT	10/27/93	10/27/93	/ /	
DRAFT SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	10/27/93	10/27/93	/ /	
DRAFT SAFETY ASSESSMENT REPORT	10/27/93	10/27/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORT	11/19/93	11/19/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	11/19/93	11/19/93	/ /	
FINAL SAFETY ASSESSMENT REPORT	11/19/93	11/19/93	/ /	

TASK DELIVERABLES FOR CONTRACT# DAAK70-92-D-0003

06/01/93

(continued)

DELIVERABLES ALL

Task#: 0014 Title: MSCS

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT TEST PLAN	12/15/92	12/15/92	12/15/92	
FINAL DRAFT TEST PLAN	12/31/92	12/31/92	12/31/92	
DRAFT SCIENTIFIC AND TECHNICAL REPORT	10/15/93	10/15/93	/ /	
DRAFT SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	11/01/93	11/01/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORT	11/28/93	11/28/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	11/28/93	11/28/93	/ /	

Task#: 0015 Title: NMCM

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORT (PHASE I)	02/13/93	02/13/93	02/13/93	
DRAFT SCIENTIFIC & TECHNICAL REPORTS SUM	02/13/93	02/13/93	02/13/93	
FINAL SCIENTIFIC AND TECHNICAL REPORT (PHASE I)	03/15/93	03/15/93	/ /	
FINAL SCIENTIFIC & TECHNICAL REPORTS SUM	03/15/93	03/15/93	/ /	
DRAFT PRESENTATION MATERIALS (PHASE II)	04/14/93	04/14/93	/ /	
DRAFT SCIENTIFIC AND TECHNICAL REPORT (PHASE II)	04/14/93	04/14/93	/ /	
FINAL PRESENTATION MATERIALS (PHASE II)	05/14/93	05/14/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORT (PHASE II)	05/14/93	05/14/93	/ /	
DRAFT PRESENTATION MATERIALS (PHASE III)	05/14/93	05/14/93	/ /	
DRAFT SCIENTIFIC & TECHNICAL REPTS SUM	05/14/93	05/14/93	/ /	
FINAL PRESENTATION MATERIALS (PHASE III)	06/13/93	06/13/93	/ /	
FINAL SCIENTIFIC & TECHNICAL REPTS SUM	06/13/93	06/13/93	/ /	

TASK DELIVERABLES FOR CONTRACT# DAAK70-92-D-0003

06/01/93

DELIVERABLES LATE

Task#: 0002 Title: NPM

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORT	02/15/93	02/15/93	/ /	
DRAFT SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	02/15/93	02/15/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORT	03/27/93	03/27/93	/ /	
COMPUTER PRODUCT SOFTWARE END ITEMS	03/27/93	03/27/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	03/27/93	03/27/93	/ /	

Task#: 0005 Title: RDA

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORT	05/08/93	05/08/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORT	06/07/93	06/07/93	/ /	

Task#: 0010 Title: CMA

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
FINAL SCIENTIFIC AND TECHNICAL REPORT	12/31/92	02/18/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	12/31/92	02/18/93	/ /	

Task#: 0012 Title: FLASH 2

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
DRAFT SCIENTIFIC AND TECHNICAL REPORT	03/13/93	03/13/93	/ /	
DRAFT SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	03/13/93	03/13/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORT	04/12/93	04/12/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORTS SUMMARY	09/30/93	09/30/93	/ /	

TASK DELIVERABLES FOR CONTRACT# DAAK70-92-D-0003

06/01/93

(continued)

DELIVERABLES LATE

Task#: 0015 Title: MMCM

DELIVERABLES	ORIGINAL DUE DATE	DUE DATE	DELIVERED	COMMENTS
FINAL SCIENTIFIC AND TECHNICAL REPORT (PHASE	03/15/93	03/15/93	/ /	
FINAL SCIENTIFIC & TECHNICAL REPORTS SUM	03/15/93	03/15/93	/ /	
DRAFT PRESENTATION MATERIALS (PHASE II)	04/14/93	04/14/93	/ /	
DRAFT SCIENTIFIC AND TECHNICAL REPORT (PHASE	04/14/93	04/14/93	/ /	
FINAL PRESENTATION MATERIALS (PHASE II)	05/14/93	05/14/93	/ /	
FINAL SCIENTIFIC AND TECHNICAL REPORT (PHASE	05/14/93	05/14/93	/ /	
DRAFT PRESENTATION MATERIALS (PHASE III)	05/14/93	05/14/93	/ /	
DRAFT SCIENTIFIC & TECHNICAL REPTS SUM	05/14/93	05/14/93	/ /	
FINAL PRESENTATION MATERIALS (PHASE III)	06/13/93	06/13/93	/ /	
FINAL SCIENTIFIC & TECHNICAL REPTS SUM	06/13/93	06/13/93	/ /	

SUMMARY REPORT FOR CONTRACT# DAAK70-92-D-0003

06/01/93

Contract Start: 04/01/92

Contract End: 01/01/94

No. Tasks Awarded:	19	No. Mods Awarded:	10	Deliv. Due This Mo:	3
No. Tasks Completed:	0	Changed for Scope:	0	Deliv Due Next Mo:	0
No. Tasks Active:	0	Time:	6		
		Funds:	4		

Total Contract Ceiling Amount: 1216930.01

Total Contract Funds Remaining from Contractors Obligated:	528154.31
Accrual:	575885.14
Disbursed:	736897.42

Withhold Ceiling:	0.00	Withhold Fraction:	0.000	Total Withholding:	16026.13
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Total Ceiling Amount to Contractor	Prior FY:	857182.01	Current FY:	359748.00
Total Amount Invoiced by Contractor	Prior FY:	625611.64	Current FY:	15433.23

****ACCRUED LABOR****

	HOURS	\$		HOURS	\$		HOURS	\$
PROGRAM MANAGER	1714	130716	PROJECT MANAGER	0	0	SENIOR ENGINEER	2829	181093
ENGINEER	2303	122314	JUNIOR ENGINEER	0	0	INTERN ENGINEER	0	0
SR RESEARCH ANALYST	0	0	RESEARCH ANALYST	0	0	JR RESEARCH ANALYST	120	3961
ENGINEERING AIDES	18	496	TECHNICAL WRITER	0	0	ILLUSTRATOR	8	175
TECHNICAL TYPIST	25	505	DATA ENTRY PERSON	38	673	ADMIN OFFICER	0	0
SECRETARY	11	157	UNUSED #1	0	0	UNUSED #2	0	0
UNUSED #3	0	0	UNUSED #4	0	0			

Total Labor Hours: 7065.50

Total of Actual Labor \$ Expended: 440089.45

****ACCRUED ODCs****

Local Travel:	2123.80
LD Travel:	4525.67
Consultants:	11172.00
Subcontractors:	148962.04
Materials:	868.20
Other:	1645.15
G&A:	31658.58
Total ODCs:	200955.44

TASK TITLE	AWARDED/		TA POC	CONTR POC	ACCURAL+PROJ MISS		COR COMMENTS
	AWARD AMT	DUE			ACCURAL+DISP	DELIV	
0001 BPM	121721	04/02/92	Donna Dodge	Neil Romstedt	1.26	0	THIS IS A TEST OF THE COR COMMENTS SECTION OF THE BTOTS DATABASE
	68921	09/30/93	(703) 704-1067	(703) 938-2142	0.87		
0002 HPM	99983	04/14/92	Mark Purdy	John Morgan	1.34	5	
	48443	04/30/93	(703) 704-1058	(703) 938-4085	1.37		
0003 SAPLIC	118795	05/06/92	Robert Thomas	John Morgan	1.29	0	
	26717	12/30/92	(703) 704-6873	(703) 938-4085	1.28		
0004 ATLAS	194169	05/01/92	Dave Krawchuck	Andy Remson	1.10	0	
	39270	01/31/93	(703) 704-2314	(703) 938-0227	1.43		
0005 RDA	25375	06/09/92	Susie Shepherd	Neil Romstedt	0.93	1	
	13514	06/07/93	(703) 704-2134	(703) 938-2142	0.99		
0006 FLASH	15039	07/08/92	Gary Snyder	Fred Clodfelter	0.94	0	
	393	11/30/92	(703) 704-2579	(703) 938-2101	1.27		
0007 QUICK	98813	07/10/92	Ed Starkovich	Fred Clodfelter	1.03	0	
	79189	08/31/93	(703) 704-1994	(703) 938-2101	0.74		
0008 DEGS	15079	07/21/92	Bart Leggett	Fred Clodfelter	1.03	0	
	393	12/31/92	(703) 704-1862	(703) 938-2101	1.00		
0009 HBB	92424	07/31/92	John Stanek	Charlie Gallion	1.90	0	
	43706	12/31/92	(703) 704-2562	(703) 938-1530	1.00		
0010 CMPA	50832	08/31/92	Charlie Gardner	Charlie Gallion	1.45	2	
	31651	02/18/93	(703) 704-2784	(703) 938-1530	1.31		
0011 MTB	24952	09/30/92	John Stanek	Dan Shuey	0.00	0	
	24952	01/31/93	(703) 704-2562	(703) 938-4083	2.37		
0012 FLASH 2	79362	11/13/92	Gene Klager	Mark Felske	0.00	3	
	79362	09/30/93	(703) 704-2578	(703) 255-5446	0.15		
0013 GLPS	75800	11/20/92	Edwin Huth	Mark Felske	0.00	0	
	75800	11/19/93	(703) 704-2602	(703) 255-5446	1.69		
0014 MSCS	99883	11/25/92	Jose' Rivera-Cotto	Mark Felske	0.00	0	
	99883	11/28/93	(703) 704-2571	(703) 225-5446	0.05		
0015 MMCM	104703	12/15/92	Brian Green	Charlie Gallion	0.00	8	
	104703	06/15/93	(703) 704-2474	(703) 938-1530	0.06		
0016 BTOTS	0	/ /	Drexel Dodge	Fred Clodfelter	0.00	0	
	0	/ /	(703) 704-3462	(703) 938-2101	0.00		

HEALTH REPORT FOR CONTRACT# DAAK70-92-D-0003
(continued)

06/01/93

TASK TITLE	AWARDED/			TA POC	CONTR POC	ACCURAL+PROJ MISS		COR	COMMENTS
	AWARD	AMT	DUE			ACCURAL+DISP	DELIV		
0017 CMPP	0	/	/	Tom Severidge	Charlie Gallion	0.00	0		
	0	/	/	(703) 704-1970	(703) 938-1530	0.00			
0018 FARV	0	/	/	William Purdue	Andy Remson	0.00	0		
	0	/	/	(703) 704-2841	(703) 938-0277	0.00			
0019 MCCD	0	/	/	Jeffrey Smith	Mark Felske	0.00	0		
	0	/	/	(703) 704-1454	(703) 255-5446	0.00			