

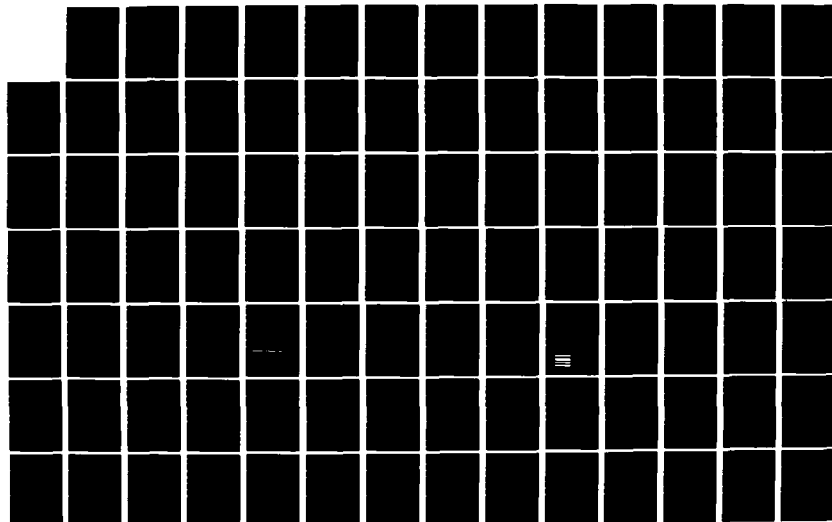
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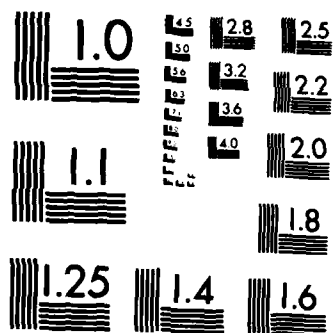
INTEGRATED TACTICAL COMMUNICATIONS SYSTEM (INTACS)
TRANSITION PLAN(U) MARTIN MARIETTA DENVER AEROSPACE CO
31 MAR 81 DAAK21-79-C-0161

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INTACS TRANSITION PLAN

Contract DAAK21-79-C-0161

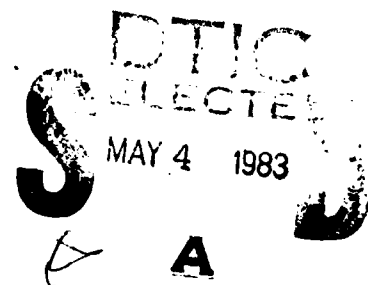
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FINAL

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03 04 18 1981

FOREWORD

The INTACS Study required the development of a Transition Plan which would assure the timely and orderly phase-in of the Objective System. Task VII of INTACS defines the steps required for transition and describes the furnished transition guidelines. Also the Study outlines an automated process for deriving the annual equipment quantities and predicting total force implementation as a tool for management of the Plan.

A part of the automated process was implemented following approval of the INTACS Study, and expansion is planned. Additionally, two documents which provide basic transition information were prepared. The "INTACS System Architecture" updates the INTACS documentation and is used as the latest source document for INTACS applications. It includes the latest equipment descriptions and doctrinal requirements. The "Transition Architecture Requirements" was initiated to develop an extensive data base for the current, transition, and objective systems as defined in the INTACS concept.

The INTACS Transition and Management Plan was initiated in recognition of the urgency for plans that will provide an integrated package of doctrine, materiel development, procurement, integration procedures, force models, personnel, and training. It will also provide system personnel with expertise in these areas to work on a continuing basis with "agencies" to provide program/project assistance in implementation of Systems Integration Management/Transition criteria.

This INTACS Transition Plan was prepared by the Martin Marietta Corporation for the United States Army Signal Center, Directorate of Combat Developments in accordance with the provisions of Contract DAAK21-79-C-0161 and corresponds to CDRL Item AOOA.

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1.0 INTRODUCTION/SUMMARY

This Transition Plan provides the overall guidelines, along with the detailed procedures, for implementing the transition from current to future tactical communications systems. Through continuing coordination with the Materiel Developer, Trainer, and Logistician it will be the primary document upon which implementation actions and future planning are based. Adherence to the precepts of the plan will provide assurance that the introduction of digital communications systems and the transition to the INTACS Objective System will be accomplished in an optimum manner.

The Transition Plan is structured in a logical, sequential order to provide cohesiveness and to contribute to the ease of updating any section to maintain a single, comprehensive INTACS Transition Plan. The primary areas of the plan (Concept of Transition, Constraints, Prediction Process and Relationships, Automated Outputs) are summarized in the following paragraphs.

1.1 CONCEPT OF TRANSITION

The introduction of new equipment into the field has been relatively simple in the past because the equipment was basically compatible with existing systems and usually only part of a system was involved. With the advent of digital equipment and the inherent emphasis on system operation, careful planning for acquisition and fielding is critical in insuring that communications operational effectiveness is maintained throughout the transition period. With so many factors involved, it is essential that the implementation schedules be automated so that the managers involved can effectively control the starting, modifying and stopping of processes in accordance with the Transition Plan.

The Plan incorporates the basic phases of system integration, planning, implementation and control into a transition functional cycle as shown in Figure 1-1. The System Integration Management Office (SIMO) with its three major functions shown develops and drives the Transition Plan. This Plan contains text and illustrated procedures for the inputs and outputs of the Automated INTACS Implementation Management System (AIIMS). At any given time the Plan also contains the outputs generated from the extensive data base and collection of programs in AIIMS. A series of Force Models for current, transition and Objective Systems have been developed for AIIMS to portray an orderly, compatible method of incorporating the new equipment. The requirements and priorities reflected in the automated schedules are based on this implementation scheme. In turn, these schedules will provide the various managers and project officers who deal in implementing plans and actions with details of the Plan. As time goes on the current status of the transition is fed back to SIMO to compare Actual vs. Plan for potential adjustments in the Architecture and transition planning.

1.2 PREDICTION PROCESS AND RELATIONSHIPS

A major part of the Transition Plan deals with the processes whereby equipment acquisition and assignment to specific units can be predicted by automated means. The process is primarily budget-driven but variations may be based on equipment requirements with varying acquisition objectives or

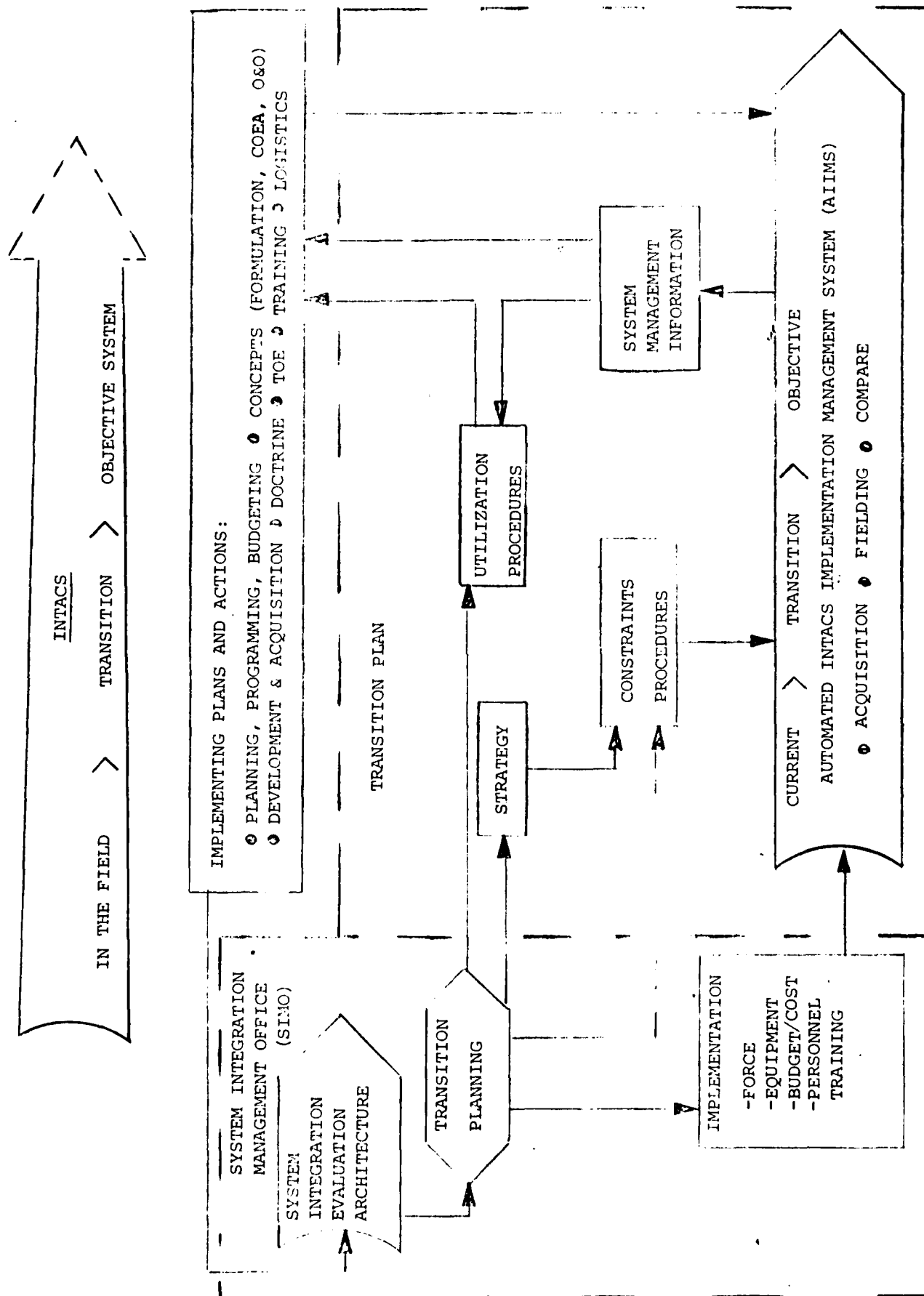


Figure 1-1 Transition Functional Cycle

changing equipment costs.

The method of forecasting the budget year buy for each equipment and the condensed version of the computer print-out is shown on the left side of Figure 1-2. The four essential inputs are: A budget amount for each year; Equipment cost; Total requirement; And amount acquired prior to the beginning year of the forecast. With this information, the equipment buy per year is predicted for as many years as desired or until the objective quantity for an equipment is reached.

With the yearly equipment quantities predicted, the specific unit assignment by budget year is accomplished by the next program. This process is shown on the right side of Figure 1-2. These assignments are made by DAMPL order but may be done by any selected scheme. The output is by equipment with unit assignment by year. Another version (Figure 1-3) lists each unit with equipment assignment by year.

By adding the additional factors shown in the center of Figure 1-2, the equipment assignments are shifted from budget year to the predicted time of actual assignments to the units in the field. At this time training requirements are injected and personnel unit assignments are predicted. This provides management with both equipment and personnel predictions as a tool for advanced planning. Figure 1-4 illustrates how the above processes fit into the equipment acquisition and fielding functional cycle.

1.3 INPUT FACTORS

A large number of inputs are required to build an automated system for the Transition Plan. These are used to create the data bases and to provide the elements for program operation. The list of inputs are shown in Table 1-1. Some of these items are initial inputs and require an update only as changes occur while others are continually changing and require periodic updates. The majority of the inputs are outside the U.S. Army Signal Center so that procedures must be established by the Systems Integration Management Office to obtain them on a timely basis.

1.4 OUTPUTS

The outputs from the Automated Transition Plan are in the forms of both reference data and planning schedules (Table 1-2). A series of Force Models were established to portray equipment in the field at various stages of transition. An equipment list for each stage as well as a master list of all equipment is available. The lists are included at Appendix D.

A Force is applied to each equipment model and a series of outputs are available to show equipment with a Force. These consist of equipment summary, equipment assemblages, components, ancillary equipment, BOI and TOE, all by Force. An example of each output is located in Appendix F.

The equipment acquisition and distribution programs operate on the above equipment and forces to produce output schedules. These schedules are both by budget year and by actual acquisition and specific unit distribution year. Examples of these schedules are in Section 5.6 of the Transition Plan.

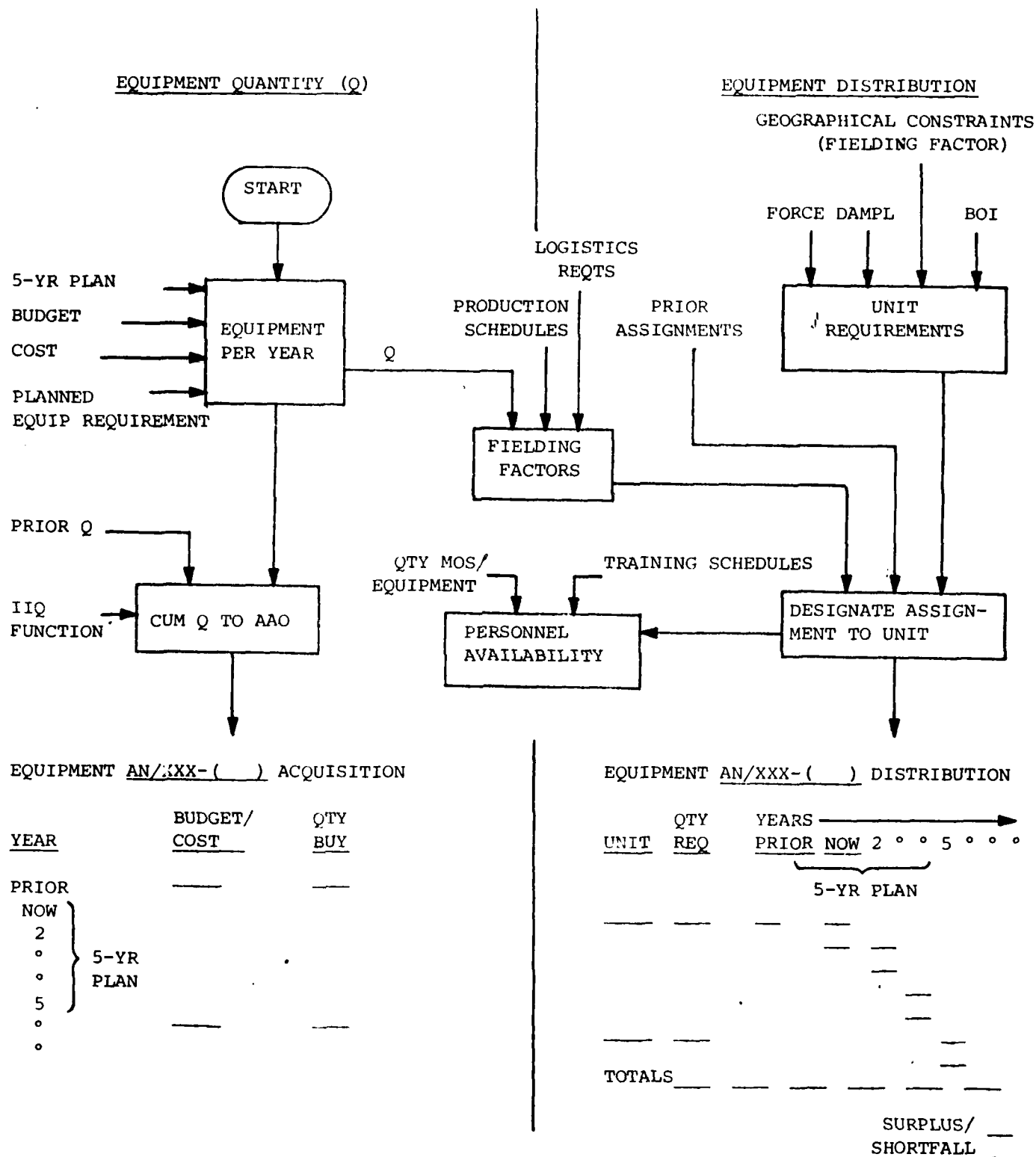


Figure 1-2 EQUIPMENT ACQUISITION AND FIELDING PROGRAMS

DATE 01/29/81 TITLE: EQUIPMENT DISTRIBUTION BY UNIT AND BUDGET YEAR ALLMSP0009 PAGE 1

OWAPL	LOC	UIC	UNIT-ID	UNIT NOMENCLATURE	SRC
				USASC & F6 TNG REQ	119004000

[illegible]

Figure 1-3 EQUIPMENT DISTRIBUTION BY UNIT AND BUDGET YEAR

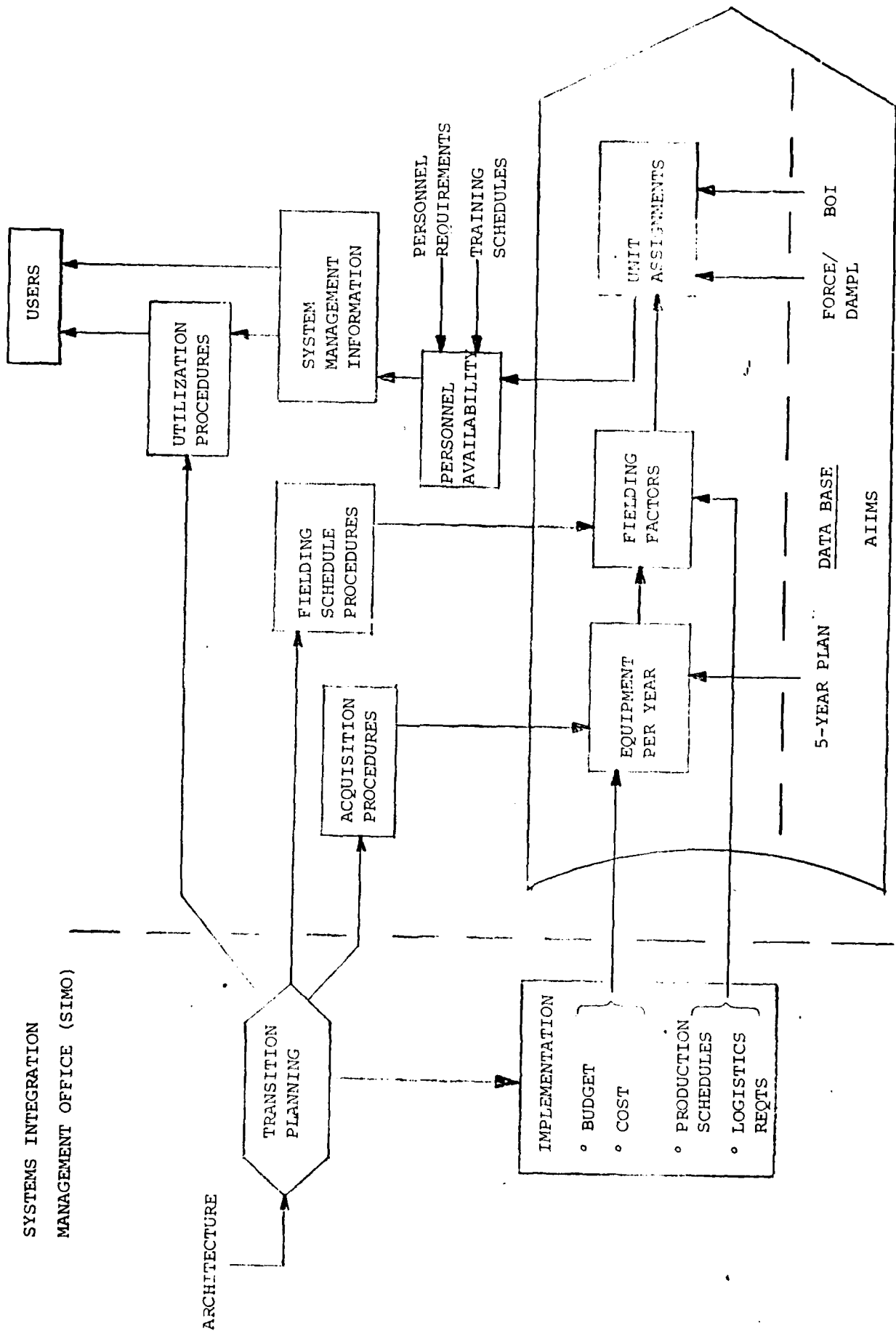


FIGURE 1-4 EQUIPMENT ACQUISITION AND FIELDING FUNCTIONAL CYCLE

<u>REQUIRED INPUT</u>	<u>SOURCE</u>	<u>FREQUENCY</u>
o Budget (Actual and Predicted)	DA Staff	Annual and WCO
o Program Objective Memorandum (POM)	DA Staff	Annual
o DA Master Priority Listing (DAMPL)	DA Staff	Annual
o Equipment Costs	DA Staff	Initial and WCO
o Initial Operational Capability (IOC)	DARCOM	Initial and WCO
o Equipment Production Rates	DARCOM	Initial and WCO
o Army Acquisition Objective (AAO)	DA Staff	Initial and WCO
o TOE and BOI	TRADOC	Initial and WCO
o Force Model Equipment Lists	SIG CEN	Initial and WCO
o Research, Development and Acquisition Committee (RDAC) Sheets	DA Staff	Annual
o Current Issue Status	DESCOM	Initial
o Issues, Turn-Ins, Redistribution	DESCOM	Quarterly
o Annual Procurement Lists	DA Staff & SIG CEN	Annual and WCO
o Training Requirements Per Equipment	SIG CEN	Initial and WCO
o MOS Course Date by Student Quantity	SIG CEN	As Required
o Attrition Factors by MOS	SIG CEN	Initial
o MOS and Personnel Quantity Per Equipment	SIG CEN	Initial
o MOS Course Lengths	SIG CEN	Initial
o Personnel Shipping Time To Unit	DA Staff	As Required
o Logistics Lead Time For Equipment	DA Staff	As Required
o Production Schedules and Rates	DARCOM	As Required

Note: WCO=When Changes Occur

Table 1-1 SIMO Required Inputs, Source and Frequency

AUTOMATED TRANSITION PLAN

BOOK 1 - EQUIPMENT FILES

Equipment Lists, Components and Assemblages

BOOK 1A FORCE/EQUIPMENT SUMMARY (Classified)

BOOK 2 - GENERIC BOI FILE

Generic Forces F-1 thru F-5

BOOK 3 - GENERIC TOE FILE

Generic Forces F-1 thru F-5

BOOKS 4 THRU 9 - FORCE MODEL FILES (Classified)

Force Models from Current and F-1 thru F-5 with Equipment, Summary, Assemblages, Components, Ancillary Items, BOI and TOE

BOOK 10 - POM FORCE FILE (Classified)

POM Force for each Available Year

BOOKS 11 AND 11A - EQUIPMENT ACQUISITION AND DISTRIBUTION (Classified)

Acquisition and Distribution Schedules

BOOK 12 - LCM FILE

Life Cycle Management Sheets

BOOK 13 - ASMI PROGRAM FILE

Program List, Status, Schedules, User List

BOOK 14 - SYSTEM REFERENCE FILE

LIN, TOE, BOIP, Associated Computer Systems

BOOK 15 - USER PROGRAM RUNS

Acquisition, Distribution, Special Runs

TABLE 1-2 INDEX OF BOOKS FOR AUTOMATED TRANSITION PLAN

To produce Fielding Schedules, the production and logistics schedules are combined with the distribution scheme to produce schedules that show when specific equipment is due to arrive in specific units. Similarly, personnel training requirements (MOS and quantity), course lengths and transit time are combined to show personnel assignment to specific units. This permits management to compare equipment and personnel availability for compatibility and to make any necessary adjustments.

1.5 TRANSITION PLAN STRUCTURE

The Transition Plan has a logical structure which consists of seven sections:

Section 1.0 -- An Introduction/Summary of the INTACS Transition Plan and significant outputs which include implementation strategy and automated implementation schedules used by management and projects.

Sections 2.0 and 3.0 -- Summaries and references to the source document basis and justification for the implementation plan and schedules.

Section 4.0 -- Description of the implementation scheme selected from the alternatives identified and evaluated.

Section 5.0 -- Development of the selected implementation scheme into constraints and procedures for the automated scheduling of acquisition, training and fielding activities during transition.

Section 6.0 -- An assembly of the outputs from the Automated INTACS Implementation Management System (AIIMS) to provide the single Automated Transition Plan.

Section 7.0 -- The relationship to the System Integration Management Office and Management Plan and explanation of how the Transition Plan and source documents are updated in order to be viable documents.

2.0 INTACS ARCHITECTURE SUMMARY

2.1 DESCRIPTION AND USE

a. Description

INTACS System Architecture (Objective System) Refinement, Hq USASC, dated May 79 reviews the INTACS Objective System and documents the changes that have occurred in the system subsequent to its approval. Included are the latest equipment and doctrinal requirements, and the operational and deployment criteria for the system including the transitional period. It is a living document and as such will be periodically updated by Hq USASC to reflect new requirements, equipment and doctrinal changes.

The purpose of the ARCHITECTURE document is to provide the principal systems and transition guidelines which will effect all orderly transitions from current capabilities to the Objective System. Applications for transition contain many factors to include time phases, equipment phases, equipment interoperability, equipment staging and procurement. Also discussed is unit priority based on the DAMPL, which requires priority phasing. The ARCHITECTURE document is the principal reference utilized in the preparation of this Transition Plan. The document is supported by equipment O&O concepts.

b. Use

The ARCHITECTURE document should be used as the reference for INTACS applications, since it includes the latest equipment and doctrinal requirements. The Architecture's transitional applications are based upon INTACS system O&O concepts, requirements for interface and interoperability, and the capabilities and/or requirement of the contractual equipment. As such, this documentation represents the operational and deployment criteria of the system and should be used as the reference for transitional applications to identify the future tactical communications system.

c. Contents

The INTACS System Architecture - Objective System Refinement contains the following:

- Chapter 1 - INTACS System Architecture
- Chapter 2 - Communications Support Plan
- Chapter 3 - Implementation Guidelines

The contents are described below.

2.2 INTACS SYSTEM ARCHITECTURE.

This chapter includes INTACS background, summary, overview and description of the Objective system for Separate Brigade, Division, Corps, Theater Army, and Quick Reaction Forces.

2.3 COMMUNICATIONS SUPPORT PLAN.

This chapter describes the Communications Support Plan which is a detailed breakdown of the Signal organizations and equipment needed to install, operate, maintain and control the Objective System at each echelon.

It includes Signal Unit Description Sheets (UDS) which states the unit's title, TOE designator, assignment, basis of allocation, mission, organization, personnel totals, and major equipments authorized. As hardware for the Objective System becomes available to the field starting after 1980 and continues to about 1998, the UDS can be used to develop discrete Tables of Organization and Equipment (TOE) for reconfigured units on a time-phased basis. (Note: Other UDS are contained in INTACS Study Task VII).

Communications equipment for the Transition and Objective Systems are documented as Equipment Description Sheets (EDS). Each EDS describes each type item in terms of nomenclature, key number and reference, technical characteristics, capabilities, components, size and weight, and mounting. The purpose of the EDS is to enable data base recall and to document the characteristics of each type equipment required for the Objective System. Additionally, EDS on the equipment required during the transition period are included to aid in the equipment identity, modifications and upgrades of ATACS and Improved ATACS items that make up portions of the hybrid systems.

2.4 IMPLEMENTATION GUIDELINES

This chapter defines the steps required to transition from the current communications system to the Objective System for the total Army force. The following areas are discussed:

- °Division communications, by phases, to include improved ATACS equipment, Division Digital Multichannel Switching Systems, and the Objective System.
- °Corps communications, by phases, to include improved ATACS equipment, Corps Digital Multichannel Switching System, and the Objective System.
- °Phase II Tactical Switched Communications, to include system and nodal configurations, Tactical Communications Control Facility (TCCF) Concepts and components, Multiplexers, Modems, Satellite Ground Terminals, AN/TTC-39 Circuit Switch doctrine, AN/TTC-42 Unit Level Circuit Switch doctrine, AN/TYC-11 Unit Level Message Switch doctrine, and Hybrid Transition System interoperability.
- °Hybrid transition system, to include switching, multiplexing, multichannel transmission, systems, external system interfaces, and transitional and hybrid equipments.

2.5 ARCHITECTURE UPDATE

Use of the INTACS System Architecture-Objective System Refinement as a reference document for INTACS applications requires that it be kept current. The latest approved doctrine and equipment requirements are reflected in the documents.

Currently, individual items are being updated manually and printed periodically as changes.

3.0 TRANSITION ARCHITECTURE REQUIREMENTS SUMMARY

3.1 DESCRIPTION, APPROACH AND USE

3.1.1 Description

Transition Architecture Requirements Final Report (draft), Hq USASC, dated July 79, prepared under contract for the US Army Signal Center provides an extensive data base for current, transition, and objective communications systems and provides the basis for requirements statements, mission profile development, trade-off evaluation and system planning during the transition to the Objective System. This document serves as an annex to the INTACS System Architecture (Objective System) Refinement.

3.1.2 Approach

Since the development of communications systems down to user terminal level is a detailed and complex process, extensive use was made of computer models. The data presented is derived, to a large extent from a computer assisted analysis.

The original INTACS analysis and this study were based on a specific force and an extensive list of Communications Support Requirements (COMSR) stated by the combat arms and other tactical users via the COMSR program. A slice of 4 communications nodes in the Corps and 4 in the Division for the current, transition, and objective systems was selected. These nodes are representative of all others in the tactical communications system. The Traffic Flow Profiles, Simulation - Communications - Electronics (SIMCE), and Mobile Subscriber Equipment (MSE) computer programs, using the COMSR, were applied to each system to produce the detailed traffic requirements for the selected slices.

3.1.3 Use

Requirement statements as defined in the O&O concepts for the AN/TYC-39 and the AN/TTC-39 Switches as well as the Loading Requirements for the Operational Testing were the first areas to utilize the data.

Subsequent use was made for the CNCE Configurations and the INTACS Update Objective System Refinement. The data was also used in formulating the TCCF O&O concept. Currently, the most potential areas of use are for determining and refining Terminal Requirements and for the INTACS Transition Plan. Among others, extrapolation and refinement of extension system requirements can be made for any Force Model under consideration. Currently, the data is being examined for inclusion in the Unit Level Switch (ULS) O&O concepts.

3.2 TRANSITION NETWORKS - CORPS AND DIVISIONS

3.2.1 Corps Transition Networks

Transitional Architecture Requirements provides extensive details on corps communications networks based upon studies of three types of networks: 16-node voice, 12-node voice, and 4-node message network. All transition phases are examined. They include the current ATACS (ALPHA concept), improved ATACS (BRAVO), early hybrid transition, late hybrid transition, and the objective system. The improved ATACS and early hybrid are examined in the Corps 16-node network. The Corps Communications System employs multichannel radio and cable communications facilities to provide service on both a command and area basis in today's ALPHA Concept. The command multichannel systems provide direct links from Corps Main to attached Divisions and other major subordinate units, from Corps Artillery to major subordinate artillery units and from Corps ADA to ADA Battalions and batteries.

The Area System is employed as a grid network capable of providing up to 16 Corps Area Signal Centers installed, operated, and maintained by the Corps Signal Brigade and its assigned battalions and companies. The area nodes are interconnected with LOS multichannel links.

The late transition and objective systems are examined in the Corps 12-node integrated network. In the 12-node Corps network there is a message switch (AN/TYC-39) at each of 4 area nodes. The remaining nodes have unit level message switches (ULMS) which connect to major switches

(AN/TYC-39) which provide user access to the switched system. This network provides message (store-and-forward) switching service to users in the Corps.

Network performance is graphically shown, as measured in terms of grade-of-service (GOS) which is determined by the peak busy hour traffic to be passed over a link, and channel capacity of that link.

3.2.2 Division Transition Networks

Transitional Architecture Requirements also provides details on Division Communications networks. All transition phases are examined. They include the current (ALPHA concept), improved ATACS (BRAVO), transition integrated and the Objective System.

The Division BRAVO and transition integrated systems have 13 multichannel nodes within the Division with 2 access nodes to corps and 1 to each adjacent Division. The units below Brigade level in the forward area gain access through wire and cable.

The Division objective system is structured around the Mobile Subscriber Equipment (MSE) and interfaces the remaining LOS multichannel, tactical satellite and single channel radio. 6 Mobile Subscriber Centrals (MSC) are deployed along with 275 Mobile Subscriber Terminals (MST) and 60 Access Units (AU) to form the Division multichannel system through the Brigade level. Corps units which provide support within the Division area have organic MST and AU to provide their own access into the system. In addition to the Objective Division System, simulations were made with 9 and 12 Centrals as a basis for comparison. An alternative candidate, also simulated, was a Division Command/Area System in which both doctrine and equipment deployments were changed. Network performance for the Division networks is measured the same as in the corps networks.

3.3 TRANSITION NODE FUNCTIONS - CORPS AND DIVISION

Transitional Architecture Requirements provides details of the Corps and Division Nodes, including all transition phases. For each of four nodes in Corps and four nodes in Division and associated extensions, details of units served, switches, trunk requirements, voice and record terminals are illustrated. The trunk capacities and quantities of specific terminal requirements are based on computer modeling using Communications Support Requirements (COMSR). These architectural details are available as examples of the detailed equipment deployment which must be done to insure interoperability.

4.0 IMPLEMENTATION SCHEMES

Selecting the most effective implementation scheme should assure that the introduction of digital communications and the transition from one system to another is in an optimum fashion without jeopardizing the operational readiness of the Army.

This section of the INTACS Transition Plan describes the recommended implementation scheme which is based on the evaluation of current and alternative schemes. Data from the INTACS Architecture documents described in preceding Sections 2 and 3 has been used to emphasize equipment complexity and availability aspects and as a basis for evaluating the alternative implementation schemes.

4.1 IMPLEMENTATION SCHEME ALTERNATIVES

The technical and time phases must be developed to transition equipment into units while maintaining communications integrity, interfaces and continuity of operations. This section defines current and alternative strategies/schemes for deployment of transition equipment, incorporating force size, compatible communications subsystems, production schedules, and training packages. The criteria of selection (described in following section 4.2) will be operational requirements, continuity of operations, future operations/equipment, flexibility and interoperability. For each alternative scheme, consideration is given to the complexity of new equipments and subsystems and to availability as related to yearly POM and Objective forces.

4.1.1 Equipment Types and Availability

Data from INTACS Task VII and INTACS Architecture documents are used in this section to emphasize the dependence of implementation scheduling on equipment constraints.

As indicated in Figure 4-1,¹ scheduling of the implementation of forces by priority depends on budget and cost, equipment types (Improved ATACS and Objective) and equipment availability (IOC and production rate) constraints. It will be concluded that increasing complexity of equipment types and their varying availabilities are major factors to be considered in selecting the most effective implementation scheme.

¹INTACS TASK VII, Figure 4-2

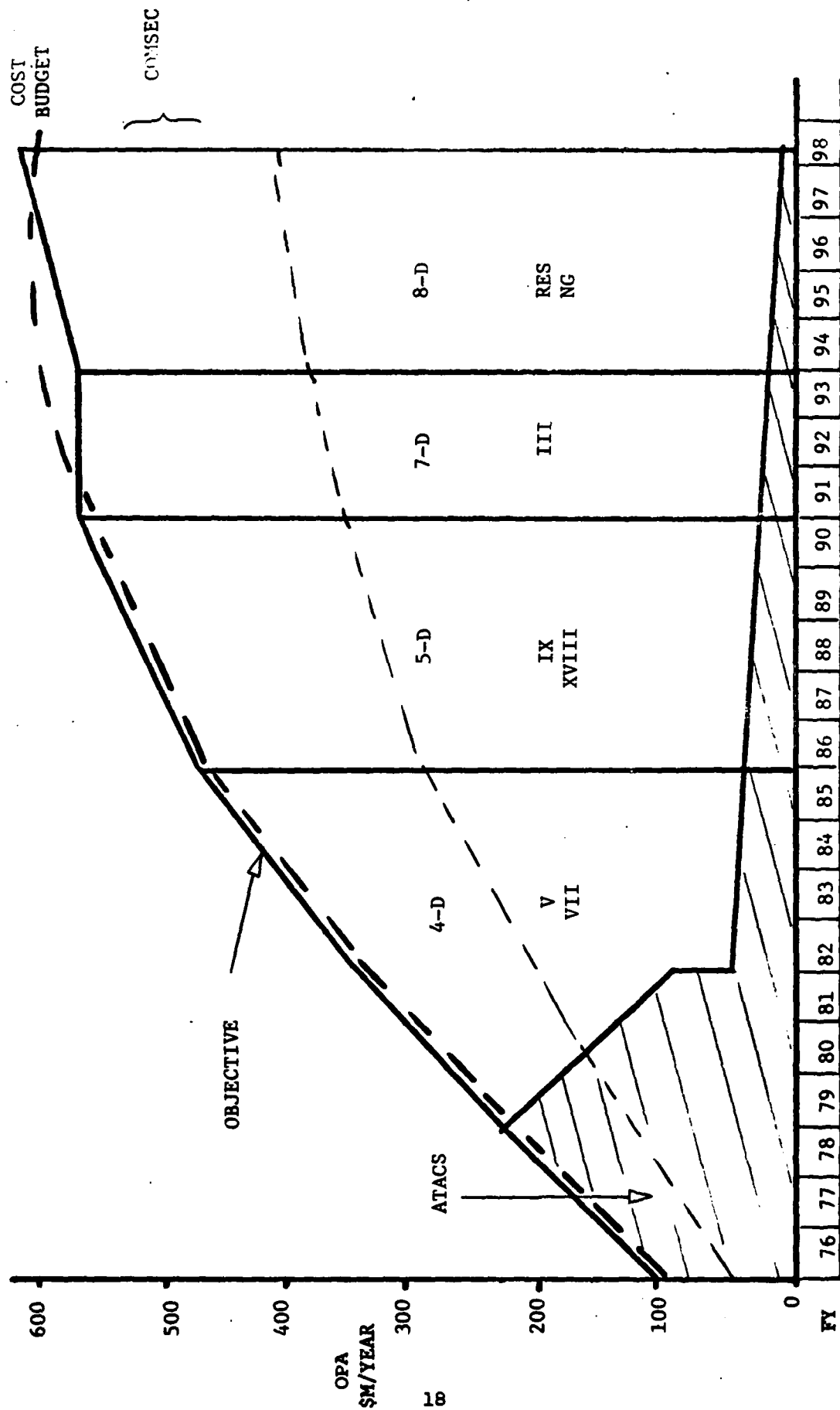


Figure 4-1 Implementation Schedule

Obviously, the cost of equipment compared to budget determines how much of the force can be implemented in any period of time.

As described in the INTACS Architecture², improved ATACS hardware programs were structured to alleviate the deficiencies in current ATACS. Improvements are in the areas of high capacity, digital data combining and satellite transmission, automatic small switches, end-to-end security and fast response technical control. In most cases, these hardware programs were structured prior to the finalization of comparable TRI-TAC equipment plans, and subsequently, have been reduced to providing improvement of the Priority 1 Forces and to establish the base transitional system.

Critical items that are essential to the transition phases and to the accomplishment of the Objective System are the TD-1065, TD-1069, TD-976 digital combiners, AN/GRC-103 Band IV heads, AN/UGC-74, SB-3614, C-6709 BNRID, and TA-978(SWAT). Equally important are the Product Improvement Program (PIPs) that incorporate this equipment in the multi-channel systems assemblages. The initial operational capabilities (IOC) for the improved equipment are shown in Figure 4-2, marked with the letter A.

Objective System equipments and subsystems become much more complex than Improved ATACS requiring concerted efforts in training and in coordinated transition planning. The IOC's for the Objective equipments are shown also on Figure 4-2 marked with the letter O. The Objective equipments and capabilities are as follows:

LOS Transmission. Multichannel assemblages and product improved radios that provide 18/36/72/144 channel transmission systems, using the AN/GRC-103, and AN/GRC-144 modified radios.

Digital TROPO. Provides improved transportability for the tactical environment, modular growth in both channel capacity and range, and includes a securable TROPO means.

Short Range Wide Band Radio (SRWBR). Augments the cable system which connects the node technical control with the radio park transmission equipment.

²INTACS Architecture, Implementation Guidelines

Tactical Satellite Communications. Time Division Multiple Access (TDMA) and Demand Assigned Multiple Access (DAMA) provides improved efficiency.

Mobile Subscriber Equipment (MSE). Automatic radio-telephone system replaces the multichannel transmission and wire switching equipment in Division operations.

Nodal Control. Family of Communication Nodal Control Element (CNCE) using computer and logic systems to provide multiplexing, electronic patching, testing and technical control. Also provide for nodal management functions and data base files.

Communications-Electronics System Control and Planning (Management). Family of Tactical Communications Control Facilities (TCCF) using computer and logic systems to provide electronic control of long range, near time, and day-by-day control and management of the total communications system.

Electronic Digital Circuit Switch System. New electronic nodal, intermediate and unit-level provide for analog, digital, and digital secure service for users at all echelons.

Modular Record Traffic System. High speed message devices, with store and forward operations through message switches. Also commens.

Digital Group Multiplex (DGM). Family enables transmission of 16/32 kb/s digital secure voice and data in groups ranging from 4.5 to 144 channels.

Hybrid/Transitional System. Hybrid/transition systems are composed of improved ATACS and INTACS equipments, or some subset thereof, needed to maintain optimum operation while satisfying the user requirements. Applications and scenarios of these systems will vary with time, echelon of deployment, and force priority. In general, hybrid/transitional operations will begin with the fielding of the first INTACS equipment and continue through the late 1990's.

As shown in preceding Figure 4-1, early FY 1998 is predicted as the time when the total force can be equipped with the Objective System within the budget, cost and equipment constraints which were established in 1975. Completion and adjustments of equipment acquisition schedules

by automated means (AIIMS)³ eventually should provide greater accuracy than this initial manual prediction in Figure 4-1. The current (8/79) IOC run from AIIMS is plotted on Figure 4-2 also to show slippage from the 1975 predictions. Most of the equipment IOC's are predicted later and the slippages range from 3 months (TD-1065; TD-206) to 108 months (TACSAT-DATDMA-Multi-channel objective system). The average slippage is over 24 months. Of particular interest is the slippage of the Mobile Subscriber Equipment from 1984 to 1988 (51 months).

Figure 4-2 also shows the approximate required production rates for the 11 major equipments that were the pacing items on which the initial implementation prediction was based. For each of the implementation priority force categories (Figure 4-1) the annual production rates were computed to satisfy the worst case situation. Then, it was determined that the production rates presented in Figure 4-2 were consistent with those in TACOMAP, with a few exceptions, described below. Tactical Communications System Master Plan (TACOMAP) was the Transition Plan in 1975 (See Appendix A).

●Multichannel TACSAT TDMA Terminal - The original (1975) IOC date of mid-1985 allowed only six months in the Priority 1 time frame to produce 57 terminals. This greatly exceeds even the annual production rate of similar type terminals identified in TACOMAP. Therefore, the IOC date should have been either earlier than mid-1985 to permit a more manageable rate of production, or the completion of Priority 1 can not be the end of FY-85 as predicted. The currently predicted IOC is over two years later as indicated in Figure 4-2.

●CSCE/CSPE - As with the preceding item, the original IOC date allows only six months in the Priority 1 period to produce 21 items, far exceeding the rate indicated in TACOMAP. Either an earlier IOC date is necessary, or completion of Priority 1 must be delayed. This is one of few cases where the current IOC dates is earlier by over a year than that predicted in 1975.

³Automated INTACS Implementation Management System Users Manual

SINGARS - The estimates indicate that approximately 1000 more radios are required in one year to meet the worst case situation (Priority 1 implementation time frame) than TACOMAP reflects are to be procured on an annual basis. Again, earlier IOC would alleviate this slight disparity. Instead, the currently projected IOC dates are later by almost four years; the TRADOC System Manager indicates an attempt to improve the IOC date.

It can be concluded from the foregoing paragraphs that increasing complexity equipment types and their varying availabilities are major factors to be considered in selecting the most effective implementation scheme.

4.1.2 Implementation Scheme Alternatives

The alternative schemes herein were prepared in consonance with the contractual requirement to consider as a minimum:

- o Equipment Considerations: 1) equipment-by-equipment as various IOC's are reached, 2) By subsystem packages, e.g., AN/TTC-39/AN/TTC-42/SB-3865/DSVT/DNVT. Identify minimum quantities required to field each subsystem.
- o Fielding Considerations: 1) Unit-by-unit as equipment IOC's are reached, 2) Geographical considerations, e.g., equip entire Corps, Division, Brigade before starting next Corps, Division, Brigade, 3) Training requirements/impacts.
- o Execution: 1) Unit stand down, 2) Team and equipment assembled in States. Relieves team on site. Team relieved becomes nucleus of new team.

In addition to the foregoing, also considered was 1) Communications Systems Operations training, and 2) A single, comprehensive, Automated Transition Plan responsive to changes.

Each of the current and alternative implementation schemes summarized in Table 4-1 are defined in succeeding paragraphs.

ALTERNATIVE 1. CURRENT-DIVISIONS & SEPARATE UNITS

The current implementation scheme is the one actually in effect for the near past and today. Communications equipment is issued to U.S. Army organizations/units in accordance with the DA Master Priority lists (DAMPL) in order of priority and/or geographic disposition. Based upon rate of flow of equipment from the production lines, every effort is made to complete a division or separate unit before proceeding to another organization/unit. After the divisions and separate units within a geographic area have been equipped, Corps and Theater Army organizations are equipped. Each geographic area is usually completed before proceeding to another area. Communications equipments are fielded as sub-systems but are sometimes fielded less components when basic functions can be provided. Such missing components must not degrade the Continuity of operations (CONOPS) and Interoperability (INTEROP).

TABLE 4 - I TRANSITION IMPLEMENTATION ALTERNATIVE SCHEMES

ALTERNATIVES FACTORS	1 CURRENT: DIVISIONS & SEP UNITS	1A DIVISIONS & SEP UNITS	2 DIVISIONS & SEP UNITS	3 BATTALIONS & SEP COS	4 MISSION CHANGE (STAND-DOWN)	5 TEAM & EQUIPMENT REPLACEMENT
FORCE PRIORITY	DAMPL					→
FORCE LOCATION	GEOGRAPHIC DISPOSITION					→
FORCE SIZE	DIVISIONS & SEPARATE UNITS		→	BATTALIONS & SEPARATE COMPANIES	DIVISIONS & SEPARATE UNITS	TEAM
FORCE MISSION	SAME				CHANGE (STAND-DOWN)	TEAM & EQUIPMENT CHANGE
EQUIPMENT PACKAGE	INCOMPLETE SUBSYSTEMS					→
TRAINING	SCHOOL NETT UNIT	→	SCHOOL, UNIT, SYSTEMS	SCHOOL, NETT UNIT	→	SCHOOL UNIT
LOGISTIC SUPPORT	PARTS, TOOLS, TEST EQUIPMENT, PUBLICATIONS					→
TRANSITION PLAN	MANUAL	AUTOMATED				→

Training is accomplished by service school(s) for complicated equipment and by the using organization/unit for less complicated equipment using exportable service school produced training material. In either case, New Equipment Training Teams (NETT), provided by the Materiel Readiness Command, will normally accompany the initial fielding of the new hardware. Accompanying the fielded equipment is the Logistic support package consisting of spare and repair parts, tools and test equipment, software support, and publications required for training and support.

The current equipment, when replaced is issued to lower priority units in accordance with instructions from the Materiel Readiness Command.

A single, up-to-date Transition Plan covering current through Objective time frames does not exist. Instead, transition is governed by manual, time-consuming methods that are not responsive to changes. Being of a manual nature, the transition plan is subject to error and lacking in flexibility. Per AR 105-1, Telecommunications Management, transition is governed by Tactical Communications System Master Plan (TACOMAP), Hg DA, dated 1 July 1975, but this document has not been updated since then. As described in Appendix A the current transition planning consists of planning by objective, the outputs of the Product Improvement Program (PIP) and TRI-TAC and RDAC Worksheets.

ALTERNATIVE 1A. DIVISIONS & SEPARATE UNITS, AUTOMATED PLANNING

Implementation Details: same as Alternative 1

Training: same as Alternative 1.

Logistic Support: same as Alternative 1

Transition Plan: Planning is accomplished with a single, comprehensive plan supported by an anticipated expanded Automated INTACS Implementation Management System (AIIMS) which responds accurately and timely to changes in its many inputs. The capability of AIIMS serves as a powerful planning tool for controlling the transition and objective implementation actions, including acquisition, training and fielding schedules plus supporting documentation/reports. The power of AIIMS derives from the ability to remember and quickly manipulate the extensive data base of related elements

necessary to effective implementation planning. Changes can be quickly incorporated to account for variances from actual conditions and to allow optimization of the plan. Impacts of input and constraint modifications can be forecast almost immediately after the change.

ALTERNATIVE 2. DIVISIONS & SEPARATE UNITS, AUTOMATED PLANNING,
SYSTEMS TRAINING

Implementation Details: same as Alternative 1.

Certain subsystems must be fielded as procurement packages to insure system operational capability, such as the AN/TTC-39. The replaced equipment and team will be used to replace manual equipment assets. Planning and keeping track of this is difficult and time consuming by manual methods, and therefore must be automated to provide proper implementation, integrated logistics support, transition planning, and training impacts.

Logistic Support: same as Alternative 1.

Transition Plan: same as Alternative 1A.

Training: Training is accomplished by service school(s) for complicated equipment and by using organization/unit for less complicated equipment using exportable service school produced training material. Due to the complexity of new and future equipment/software, systems and subsystems, additional systems training at the organizational/unit level is becoming necessary. This alternative envisions the activation and training of TRADOC Signal School) Communications Systems Operations Teams (CSOT) whose functions would be:

- To train key personnel (S3's, C-E Staff Personnel, and Commanders) in planning and management of the system/subsystems. Training would include, but not be limited to, interoperability requirements, radio and wire net planning and management, general communications planning, inter-relationship of subsystems (e.g., transmission, switching, nodal and interface control, contingency planning, frequency management, and traffic engineering.

- To train the system users (subscribers) accenting capabilities and limitations of the equipment and system and courses of action to take in the event of disruption of service. Because of the great numbers of users within a division size organization, such training would be conducted for key (cadre) personnel, who, in turn would train the balance of the users.

For specific procurement packages, such as the AN/TTC-39, there may be a requirement for a CONUS-trained team to accompany the equipment.

ALTERNATIVE 3. BN & SEPARATE COMPANIES

Communications equipment is issued to U.S. Army Battalions and separate companies in accordance with the DA Master Priority List (DAMPL) in order of priority and/or geographic disposition as in the current scheme (Alternative 1). Equipment is fielded as in Alternative 1 (CURRENT). Each geographic area is completed before proceeding to another area as in the current scheme (Alternative 1). The current equipment, when replaced, is issued to lower priority units in accordance with instructions from the Materiel Readiness Command. (same for all schemes).

Training: same as Alternative 1.

Logistic support: same as Alternative 1.

Transition Plan: same as Alternative 1A.

ALTERNATIVE 4. MISSION STAND-DOWN

Communications equipment is issued to U.S. Army Divisions and separate units in accordance with the DA Master Priority List (DAMPL) in order of priority and/or geographic disposition as in the current scheme (Alternative 1). Equipment is fielded as interoperable subsystems. Each organization/unit's mission is changed to permit simultaneous equipment change and training. Each geographic area continues to be completed before proceeding to another area. The Current Equipment, when replaced, is issued to lower priority units in accordance with instructions from the Materiel Readiness Command. (same for all schemes).

Training: same as Alternative 1.

Logistic Support: same as Alternative 1.

Transition Plan: same as Alternative 1A.

ALTERNATIVE 5. TEAM & EQUIPMENT REPLACEMENT

A communications team is trained by service school(s) and assembled together with new communications equipment in the CONUS. The team and equipment is transported and assigned to a specific unit in accordance with the DA Master Priority List (DAMPL) in order of priority and/or

geographic disposition as in the current scheme (Alternative 1). Unit training is conducted so as to integrate the newly assigned team and equipment into the unit. The team replaced would be sent back to CONUS to be trained for further assignment. The current equipment is issued to lower priority units in accordance with instructions from the Materiel Readiness Command. (same for all schemes).

Logistic Support: same as Alternative 1.

Transition Plan: same as Alternative 1A.

4.2 SELECTION CRITERIA.

As elaborated in preceding section 4.1.1 using published INTACS data, the major factors to be considered in selecting the most effective implementation scheme are: increasing complexity of equipments and their varying availabilities. These factors lead to the choice of flexibility of planning/management and amount of training commensurate with complexity as the major criteria used for selection from the alternatives. These two criteria will be measured in quantitative terms as much as possible. Quantitative knowledge is the amount or extent of the attributes of the scheme in terms that are capable of being counted. It is information that is capable of being expressed in numbers.

There are other criteria such as continuity of operations and interoperability that are paramount in the selection of the implementation scheme from the alternatives. Since expression in quantitative terms is difficult, these criteria will be measured in qualitative terms. Qualitative knowledge is descriptive of distinctive characteristics of the scheme in terms such as more, better, maximum.

4.2.1 QUANTITATIVE CRITERIA.

4.2.1.1 Flexibility of Planning/Management.

a. Definition - the ability to plan/manage introduction, delete, add, delay equipment/components/software with a minimum of confusion or disruption among materiel, training and tactical managers. (INTACS, Task III).

b. Flexibility is difficult to measure directly in quantitative terms. Instead, the number and amount of delays in equipment

IOC's (Figure 4-2) will be used to indicate the necessity for automated planning and timely support for management. Each of the slipped IOC dates disrupts the transition plan leading to difficulty in performing managerial decisions and actions until a new plan can be developed. A manual transition plan is not flexible to changes while an automated plan can quickly and accurately respond to IOC and other changes.

4.2.1.2 Amount of Training.

a. Definition - total or complete training consists of systems management and operations training in addition to institutional (service school) and unit training to include technical (equipment) operational and procedural. That is, some individuals who have received

technical and operational equipment training must receive further training in systems operation in the mission environment.

b. Evaluation of alternatives will relate the amount of training to a quantitative indication of the new and significantly different equipments in transition and Objective systems relative to today's system. The implication is that the amount of training should be commensurate with new equipment in the systems being introduced. Evaluation will also consider actions taken to incorporate additional training into current training programs.

4.2.2 Qualitative Criteria.

4.2.2.1 Continuity of Operations (CONOPS).

a. Definition - those methods and procedures used to insure that the function/mission of the individual system can still be accomplished even though there is some degradation in system operation (DA PAM 11-25, Para B-8). (Note: USASC&FG requires there be no degrading).

b. Evaluation of each alternative using the criterion is accomplished by considering the number and duration of disruptions to the system caused by the fielding of new equipment/software. Such disruptions would be considered only if they affected the accomplishment of the function/mission. Also to be considered are current and future operational/

equipment requirements.

4.2.2.2 Interoperability.

a. Definition - the capability of two or more items or components of equipment to perform essentially the same function or to complement each other in a system regardless of differences in technical characteristics and with negligible additional training of personnel (AP 310-25).

b. Evaluation of each alternative using this criterion is accomplished by considering each case of failure to interoperate and the effect of such failures on the assigned mission. It would be measured on a "GO - NO-GO" basis. Also to be considered are the requirements for hybrid operation.

4.2.2.3 Timeliness of Training.

a. Definition - the scheduling of training so as to minimize the amount of time between completion of training and assignment of the trained personnel to the new equipment/software in its mission environment (INTACS, Task III).

b. Evaluation of each alternative using this criterion is accomplished by considering the elapsed time between completion of training and beginning of operation, by trained personnel on the new equipment/software. The greater the elapsed time, the less the retention of knowledge.

4.3 EVALUATION.

4.3.1 Flexibility of Planning/Management.

As shown in preceding Figure 4-2, only 4 of a total 48 end items have not experienced slippages in IOC dates. Many of these items have had multiple slippages resulting in extreme difficulty of planning, keeping track and management. Additionally, in many cases, the slippage of one item may affect the fielding of a companion item. The slippages range from 3 months (TD-1065, TD-206) to 108 months (TACSAT multi-channel objective system) with an average slippage of over 24 months. This indicates the current alternative scheme 1 is less than satisfactory in that it uses a manual transition plan not flexible and timely to changes. All other alternative schemes have the automated transition plan which

responds accurately and timely to changes, including a multitude of IOC dates, as well as changes in budget, procurement, and training dates.

4.3.2 Amount of Training.

Scheme 2 provides the most (optimum) training, in that it makes provision for communications system operations training for not only the equipment operators/maintainers but also for the planners, managers and users of the system.

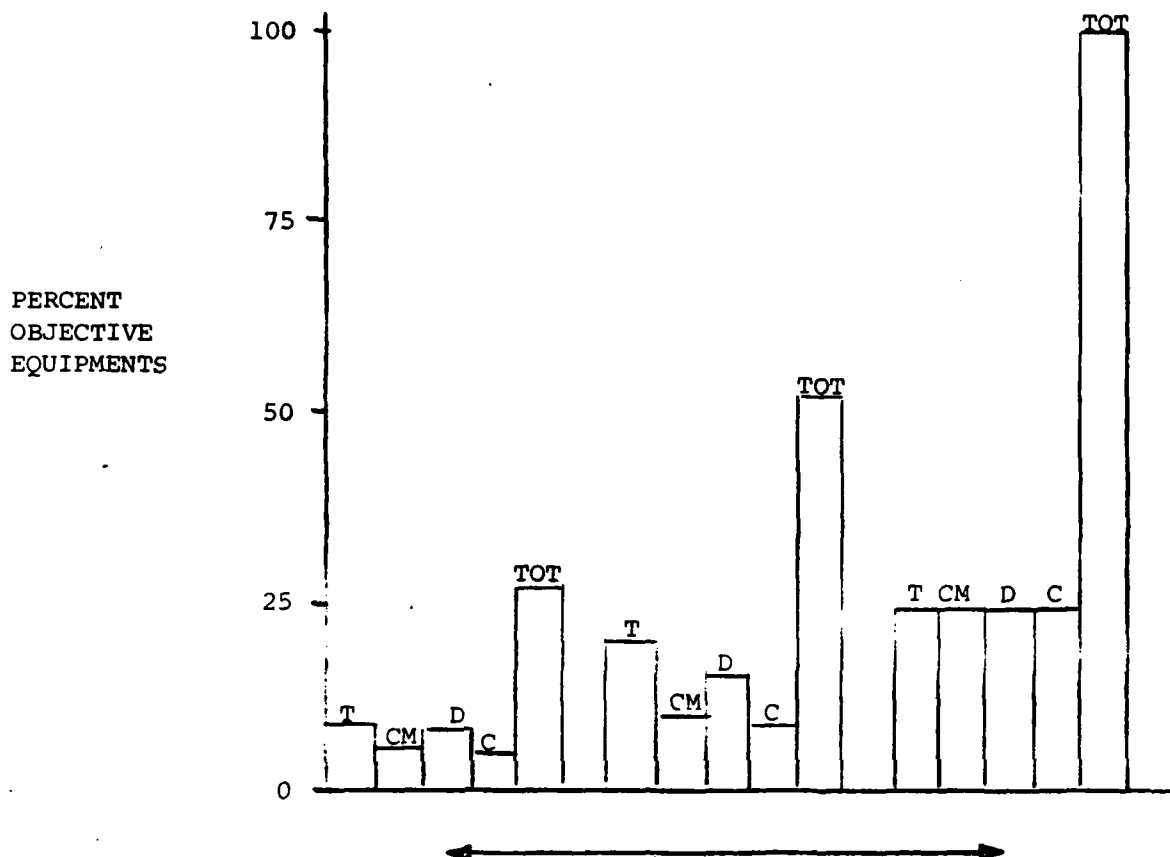
The need for additional systems training for operators/main-tainers was established by the Southeastern Signal School in 1972, because of the complexity of proposed equipments/systems. In the early 80's the Reactive Electronic Equipment Simulator (REES) will be installed in the USASC, which will provide systems training. The REES, costing in the million of dollars, will simulate tactical communications technical control functions of the AN/TSQ-84 and AN/TSQ-85 as well as the functions of AN/TRC-145 (MOD), AN/TRC-138 (MOD), AN/TCC-73 (MOD), TRC-151/152, TD-1065, TD-1069 and TD-976.

Additionally, the USASC (Directorate of Training Developments) interviewed 12 future Signal Battalion Commanders and 75% believed that systems training is needed for communications operators, junior officers and NCO's.

The same directorate interviewed a number of field grade officers and 35% expressed the belief that "the Signal Corps needs to educate the planners, managers and operators of the other services on what we have and what it can do for them". Major new equipments will increase in the Objective System by almost four times today's system, and this implies that additional training is required.

An indication of the major new and significantly different equipments in the transition and Objective Systems relative to today's system is shown in Figure 4-3. The current system consists of 34 major equipment items, the transition system has 32 equipment items new or significantly different from the current system and the Objective System has 64 equipments new or significantly different from the transition system. The cumulative totals of 34, 66 and 130, respectively, are meaningful from the training standpoint because old equipment and it's training continue in some locations while replacement occurs in other

FIGURE 4-3 NEW EQUIPMENTS



	CURRENT (1980)	TRANSITION	OBJECTIVE (1990)
NEW/DIFFERENT EQUIPMENTS		32	64
CUMULATIVE TOTAL	34	66	130
<u>CATEGORY</u> (% OBJECTIVE TOTAL)			
TRANSMISSION (T)	9	21	25
CONTROL/MUX (CM)	5	10	25
DISTRIBUTION (D)	8	13	25
COMSEC (C)	<u>4</u>	<u>7</u>	<u>25</u>
TOTAL (TOT)	26	51	100

places. Percent of objective equipments are illustrated in Figure 4-3 for four categories of equipments for each of the three time phases. These equipments are listed by category in Table 4-11. Only the new (no prior capability) and the equipment considered to be significantly different in complexity are counted. The new/different equipments are evenly distributed among the categories in the Objective System.

The transition and objective equipments are described in Equipment Description Sheets in the INTACS Architecture document.⁵ The functions of current, transition and objective equipments are shown and connected for a typical Corps node phased through five steps from here to objective in the INTACS Transition Architecture Requirements document⁶ Figures 3-1A, 3-1, 3-19, 3-36 and 3-59. Each figure highlights the change from the preceding phase. Also, a Division node is illustrated in a similar manner in Figures 5-1, 5-2, 5-16, and 5-30.

The foregoing basis information and resulting numbers give a strong indication that an implementation scheme that includes increased training with emphasis on systems is required.

All schemes other than Alternative 2 provide less than complete training.

⁵INTACS Architecture

⁶Transition Architecture Requirements

TABLE 4-11 MAJOR EQUIPMENTS

<u>CURRENT (1980)</u>		<u>TRANSITION</u>	<u>OBJECTIVE (1990)⁵</u>
1.	TRC-145,113	TRC-145 MOD	TRC-178/TRC-113 (MOD)
2.	TRC-112,121		TRC-170
3.	TRC-138	TRC-138 MOD 1 *	SRWBR TRC-175/ TRC-138 MOD 2 #
4.	TRC-110	TRC-152 *	TRC-174
5.	TRC-117	TRC-151 *	TRC-173
6.		TSC-85 *	TSC-L (MCOS) #
7.		TSC-93 *	TSC-M (MCOS) #
8.	VRC-12 FAMILY (6 ITEMS)	SINGARS FAMILY (9 ITEMS) *	
9.	HF	IHF *	OHF #
10.			SCOTT #
TRANSMISSION	12	15 *	5 #
11.		TD-1069 *	
12.		TD-1065 *	
13.		TD-976 *	DGM (15 ITEMS) #
14.		TD-982 *	
15.	TCC-73	TCC-73 (MOD)	
16.	TCC-72	TCC-72 (MOD)	
17.	TCC-65	TCC-65 MOD	
18.	SB-675, TSC-76, TSQ-84	TSQ-84A *	CNCE I & III TSQ-111 #
19.	MSC-25	MSC-25 (MOD)	CSPE #
20.	MSC-32 (A)	MSC-32A (MOD)	CSCE TYC-16 #
21.	RWI	BNRID C-6709 *	NRI KY 90 #
CONTROL/MUX	7	6 *	19 #

* New or significantly different from current. # New or significantly different from transition.

⁵ INTACS Architecture; Equipment Description Sheets.

TABLE 4-11 CON'T

<u>CURRENT (1980)</u>		<u>TRANSITION</u>	<u>OBJECTIVE (1990)⁵</u>
22.	TTC-38		TTC-39 #
23.	SB-3614, TTC-41		TTC-41 #
24.	SB-22, 86		SB-3865 & SB22/ CV-DIG #
25.	TA-312, 838, 938		
26.		TA-978 (SWAT) *	DSVT KY-68, 78 #
27.		ANDVT *	
28.			DNVT TA-954/984 #
29.	TXC-1	GXC-7A	UXC-4 #
30.	PGC-1	UGC-74	MRTT, SST
31.	MGC-19A	MGC-19A (MOD)	MTCC/ULMS #
32.	TSC-58	TSC-58 (MOD)	
33.	MGC-23		
34.	MYQ-2		TYC-39 #
35.			DJLED #
36.		PLRS/JTIDS HYBRID (4 ITEMS) *	
37.			OPTICS (4 ITEMS) #
38.			MSC #
39.			AU #
40.			MST #
DISTRIBUTION	10	7 *	16 #
41.	NESTOR (3 ITEMS)	VINSON (4 ITEMS) *	
42.	KW-7		DLED KG-84 #
43.	KG-27		KG-81, KG-93 #
44.			TENLEY/SEELEY (22 ITEMS) #
COMSEC	5	4 *	24 #
TOTAL	34	32 *	64 #

4.3.3 Continuity of Operations (CONOPS).

CONOPS is maximum in Schemes 1, 1A and 2 since some subsystems can tolerate missing equipments and/or components. For example, the voice switching systems require the AN/TTC-39, AN/TTC-42, and SB-3865. As noted in Figure 4-2, the current IOC of the AN/TTC-39 is 3Q83, whereas the other two items is 1Q86. Even though all three items will ultimately be interfaced, the delay will not impede the operation of the AN/TTC-39. Figure 4-2 is replete with other valid examples.

CONOPS is not assured in Scheme 3 since there is no assurance that lateral units and higher headquarters have received the equipment simultaneously. CONOPS is not assured in Scheme 5 for much the same reason - there must be other teams with the same equipment before operations can begin. At first glance, it would appear that Scheme 4 - mission change (stand-down) offers maximum CONOPS. This is not true, since the scheme requires all equipment to arrive simultaneously, all training to be completed, and no intervening changes in mission, mission priority and equipment which is obviously near impossible in today's turbulent world. In addition, Schemes 3, 4 and 5 will result in constant disruption due to fragmented fielding of equipment.

4.3.4 Interoperability (INTEROP).

INTEROP is maximum in schemes 1, 1A and 2 since some subsystems can tolerate missing equipments and/or components. The reasoning used in evaluating CONOPS (para 4.3.3) applies to INTEROP.

INTEROP is not assured in Scheme 3 since there is no assurance that lateral units and higher headquarters have received the equipment simultaneously. INTEROP is not assured in Scheme 5 for much the same reason - there must be other teams with the same equipment before operations can begin.

Scheme 4 provides maximum interoperability since the definition of the scheme states that the "equipment is fielded as interoperable subsystems". This is achieved at the cost of achieving upgrade at a minimum pace.

4.3.5 Timeliness of Training.

Scheme 2 offers the maximum timeliness of training since the Communications Systems Operations Training for communications personnel and users is conducted within the organizations upon arrival of the equipment and MOS - trained operators/maintainers. The amount of training that will be forgotten will be at an absolute minimum. This is a very critical subject; for example, school - trained OSC personnel will forget 50% of their training at the end of 3 months after graduation.⁷

All other schemes provide medium timeliness of training due to the lack of Systems Training, and the amount of time between completion of MOS training and start of systems operation.

4.4 RECOMMENDED SCHEME.

It is recommended that alternative implementation scheme 2 be selected. A summary of the evaluation is in Table 4-III. This recommendation is made after careful consideration of not only capabilities and shortcomings of each alternative but the increasing complexity of the equipment/software and the ever-changing equipment availability dates (Figure 4-2). As the objective system is approached, the slippage of one item of equipment will have an effect upon other items. Scheme 2 provides the following features:

The automated transition plan provided maximum flexibility.

Optimum amount of training.

CONOPS is maximum.

INTEROP is maximum.

Maximum timeliness of training.

For ease of reference, the recommended Alternative Scheme 2 is repeated below.

⁷TRADOC Commander's Conference/Training Strategy, 3 Apr 79

TABLE 4-III TRANSITION IMPLEMENTATION ALTERNATIVE SCHEME EVALUATION

ALTERNATIVES CAPABILITIES/ SHORTCOMINGS	1 CURRENT: DIVISIONS & SEPARATE UNITS	1A DIVISIONS & SEPARATE UNITS AUTOMATED PLANNING	2 DIVISIONS & SEPARATE UNITS SYSTEMS TRAINING	3 BATTALIONS & SEP COMPANIES	4 MISSION CHANGE (STAND-DOWN)	5 TEAM & EQUIPMENT REPLACEMENT
CAPABILITIES	1. CONOPS is maximum 2. INTEROP is maximum	1. Automated transition plan provides maximum flexibility 2. CONOPS is maximum 3. INTEROP is MAXIMUM	1. Automated transition plan provides maximum flexibility 2. Optimum amount of training 3. CONOPS is maximum 4. INTEROP is maximum 5. Maximum timeliness of training	1. Automated transition plan provides maximum flexibility	1. Automated transition plan provides maximum flexibility 2. INTEROP is maximum	1. Automated transition plan provides maximum flexibility
	1. Lack of comprehensive responsive plan 2. Training is not complete 3. Medium timeliness of training	1. Training is not complete 2. Medium timeliness of training		1. Training is not complete 2. Medium CONOPS - constant disruption 3. INTEROP not assured 4. Medium timeliness of training	1. Training is not complete 2. Medium CONOPS 3. Medium timeliness of training 4. Medium timeliness of training	1. Training is not complete 2. Medium CONOPS - constant disruption 3. INTEROP not assured 4. Medium timeliness of training
SHORTCOMINGS						

RECOMMENDED IMPLEMENTATION SCHEME

(ALTERNATIVE 2)

DIVISIONS & SEPARATE UNITS, SYSTEMS TRAINING, AUTOMATED PLANNING

Communications equipment is issued to U.S. Army organizations/units in accordance with the DA Master Priority Lists (DAMPL) in order of priority and/or geographic disposition. Based upon rate of flow of equipment from the production lines, every effort is made to complete a division or separate unit before proceeding to another organization/unit. After the divisions and separate units within a geographic area have been equipped, Corps and Theater Army organizations are equipped. Each geographic area is usually completed before proceeding to another area. Communications equipments are fielded as subsystems but are sometimes fielded less components when basic functions can be provided. Such missing components must not degrade the Continuity of Operations (CONOPS) and Interoperability (INTEROP). Certain subsystems must be fielded as procurement packages to insure system operational capability, such as the AN/TTC-39. The replaced equipment and team will be used to replace manual equipment assets. Planning and keeping track of this is difficult and time consuming by manual methods, and therefore must be automated to provide proper implementation, integrated logistics support, transition planning and training impacts.

Training is accomplished by service school(s) for complicated equipment and by using organization/unit for less complicated equipment using exportable service school produced training material.

Due to the number and complexity of new and future equipment/software, systems and sub-systems, additional systems training at the organization/unit level is becoming necessary. This alternative envisions the activation and training of TRADOC (Signal School) Communication Systems Operations Teams (CSOT) whose functions would be:

- To train key personnel (S3's, C-E staff personnel, and commanders), in planning and management of the system/sub-systems. Training would include, but not be limited to interoperability requirements, radio and

wire net planning and management, general communications planning, interrelationship of subsystems (e.g., transmission, switching and management), activation/deactivation of subsystems/communication system, nodal and interface control, contingency planning, frequency management, and traffic engineering.

- To train the system users (subscribers) accenting capabilities and limitations of the equipment and system and courses of action to take in the event of disruption of service. Because of the great numbers of users within a division size organization, such training would be conducted for key (cadre) personnel, who, in turn would train the balance of the users.

For specific procurement packages, such as the AN/TTC-39, there may be a requirement for a CONUS-trained team to accompany the equipment.

Accompanying the fielded equipment is the Logistic support package consisting of spare and repair parts, tools and test equipment, software support, and publications required for training and support. The current equipment, when replaced, is issued to lower priority units in accordance with planning and instructions from the Materiel Readiness Command.

Planning is accomplished with a single, comprehensive plan supported by an anticipated expanded Automated INTACS Implementation Management System (AIIMS) which responds accurately and timely to changes in its many inputs. The capability of AIIMS serves as a powerful planning tool for controlling the transition and objective implementation actions, including acquisition, training and fielding schedules plus supporting documentation/reports. The power of AIIMS derives from the ability to remember and quickly manipulate the extensive data base of related elements necessary to effective implementation planning. Changes can be quickly incorporated to account for variances from actual conditions and to allow optimization of the plan. Impacts of input and constraint modifications can be forecast almost immediately after the change.

5.0. IMPLEMENTATION PLAN

5.1 FORCE MODELS

To develop and update the Implementation Plan it is necessary to define the Forces and their communications equipment from the current system through the transition stages to the objective system. Once these Force Models have been developed in AIIMS, year by year automated runs can be made projecting equipment acquisition versus budget by specific units as shown in Figure 5-1. The Force Models required are:

- F-1 ATACS POM 80
- F-2 Improved ATACS POM 82
- F-3 Improved ATACS with CNCE and TTC-39 POM 84
- F-4 Base Digital with Hybrid Application POM 85/86
- F-5 Objective System/Objective Force

These Force Models relate specific equipment to specific units by POM year and refer to authorized TOE's or Unit Reference Sheets (URS). They become semi-static, requiring changes only when there is an approved equipment change or a change in the POM.

As shown in Figure 5-1, the current equipment issue status for specific units is derived by incorporating changes to F-1 which reflect the actual situation of today. Then, plans and constraints (priorities, availabilities, strategies, budget) are injected into Models F-2 through F-5 from the current base to arrive at a prediction of equipment issue requirements for each of the future years.

The procedures for developing and maintaining by ADP, each of the Force Models are defined below and the flow diagrams are at Annex C.

5.1.1 Force Model F-1 - ATACS - POM 80

This Force Model becomes the base model for developing the other four (4) models and is also the base for building the Specific Unit Master Issue Tape (SUMIT) which is described later. The following Manual/ADP steps are required to develop Force Model F-1.

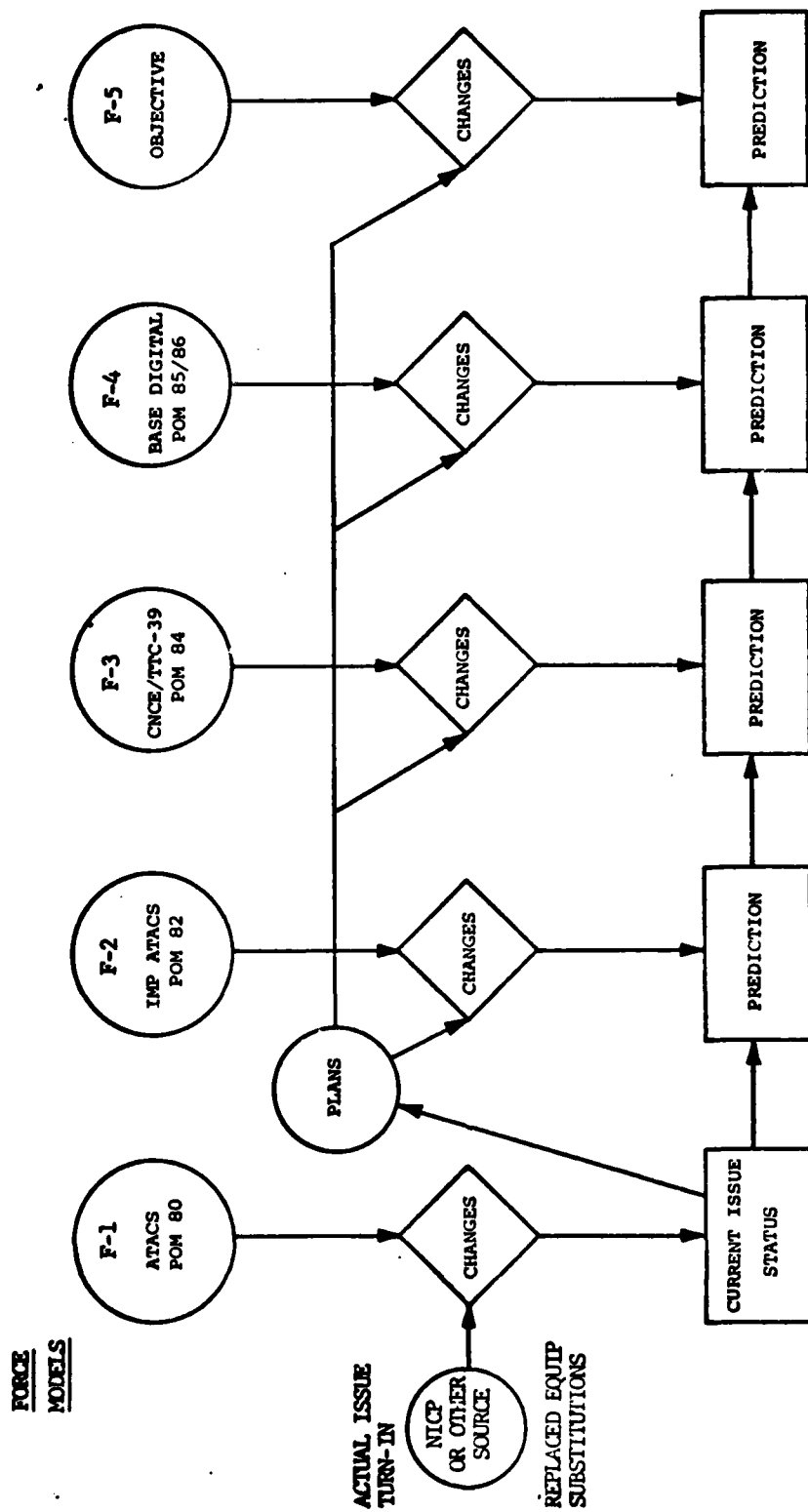


Figure 5-1 Projected Equipment Acquisition

- Compile a list of current tactical communications equipment that will be affected by the transition and objective systems (Appendix D).
 - Run line item number (LIN) of above equipment against current TOE's to determine the amount and in which TOE the equipment is authorized.
 - Run POM 80 units against authorized TOE tape above to determine equipment authorization by specific unit. This becomes Force Model F-1.
 - Format and develop the following printed listings which describe the Force Model (Complete format is at Appendix F).
1. EQUIPMENT IDENTIFICATION LIST
Lists and identifies equipment by Key Nr, Nomenclature, IOC, etc.
 2. EQUIPMENT SUMMARY BY FORCE
Provides Force and equipment totals for Active, National Guard, Reserve and Total Force.
 3. EQUIPMENT ASSEMBLAGES BY FORCE
Provides assemblage and component totals for Active, National Guard, Reserve and Total Force.
 4. COMPONENTS TO ASSEMBLAGES BY FORCE
Gives total of components and total of the assemblages where they are found by Active, National Guard and Total Force.
 5. END ITEM ASSOCIATED/ANCILLARY EQUIPMENT LIST BY FORCE
Lists end items and their associated equipment by Active, National Guard, Reserve and Total Force.
 6. BOI FILE BY FORCE
Provides equipment list and units in which it is found by Active, National Guard, Reserve and Total Force.
 7. TOE FILE BY FORCE
Lists TOEs and equipment therein by Active, National Guard, Reserve and Total Force.

5.1.2 FORCE MODEL F-2 - IMPROVED ATACS - POM 82

This Force Model incorporates the equipment of the ATACS Product Improvement Program which will be put in the field in the near time frame. Since the quantities are restricted pending availability of the objective equipment, the entire Force will not receive this

equipment. The steps required to construct this Force Model are:

- Utilize Step 2 of Force Model F-1 and run POM 82 against it to assign equipment by specific unit. This results in current TOE authorization as a base.
- Compile a list of improved ATACS equipment (Appendix D).
- Identify units in POM which will receive this equipment.
- Substitute improved ATACS for TOE equipment in those specific units.
- Provide seven listings same as for F-1

5.1.3 FORCE MODEL F-3 - IMPROVED ATACS WITH CNCE AND TTC-39 -
POM 84

Force Model F-3 will incorporate the CNCE and TTC-39 only in those units where it is authorized and which also have the improved ATACS assigned. To construct the Force Model the following steps are necessary:

- Utilize Step 2 in Force Model F-1 and run POM 84 against it to assign equipment by specific unit. This results in current TOE authorization as a base.
- Utilize Step 4 in Force Model F-2 to assign improved ATACS equipment (List at Appendix D).
- Identify those units with improved ATACS that will be authorized the CNCE and TTC-39.
- Add the CNCE and TTC-39 to those units and delete the TOE equipment that is replaced. This becomes FORCE Model F-3.
- Provide seven listings same as for F-1.

5.1.4 FORCE MODEL F-4 - BASE DIGITAL WITH HYBRID APPLICATION -
POM 85/86/87

This Force Model brings in Additional digital equipment so that the systems now operate basically digital, however, certain types of equipment must be retained to allow a hybrid operation of those analog functions remaining. The steps in constructing the Force Model are as follows:

- Utilize Step 2 in Force Model F-1 to acquire current TOE

authorization as a base.

- Compile a list of equipment to be added and a list to be deleted and modify each TOE that is affected (Appendix D).
- Run POM 85/86/87 against the modified TOE file to assign equipment to each specific unit. This is now Force File F-4.
- Provide seven listings same as for F-1.

5.1.5 FORCE MODEL F-5 - OBJECTIVE SYSTEM/OBJECTIVE FORCE

The remainder of the INTACS equipment is added to this Force to form the Objective System. The system is now digital with hybrid operation eliminated but having analog interface capabilities. The procedure to construct the Force Model is as follows:

- Utilize Step 2 in Force Model F-4 as the base.
- Compile lists of equipment to be added and deleted and modify each affected TOE. (Appendix D)
- Run Objective Force against the modified TOE file to assign equipment to each specific unit. This becomes Force File F-5.
- Provide seven listings same as for F-1.

5.2 SPECIFIC UNIT MASTER ISSUE TAPE (SUMIT)

In order to account for the many equipment transactions during transition (equipment issues, roll-up, re-issue, salvage) it is necessary to create and maintain a master file of the current equipment status of all units in the Force. By continually updating this file as equipment is moved, the current Force status is available to provide the information needed for future planning of the implementation schedules (See Figure 5-2). Since many units do not now have the type nor quantities of equipment that is authorized by the TOE, the Force Model F-1 must be initially be modified to reflect the actual status of equipment in the specific units. The procedures to establish and maintain the SUMIT File are as follows:

- Utilize Force Model F-1 as the base file.
- Acquire from the logistics system a listing of TOE deviations by specific unit for the pertinent items.
- Make the necessary item substitutions and/or quantity change in the base file.

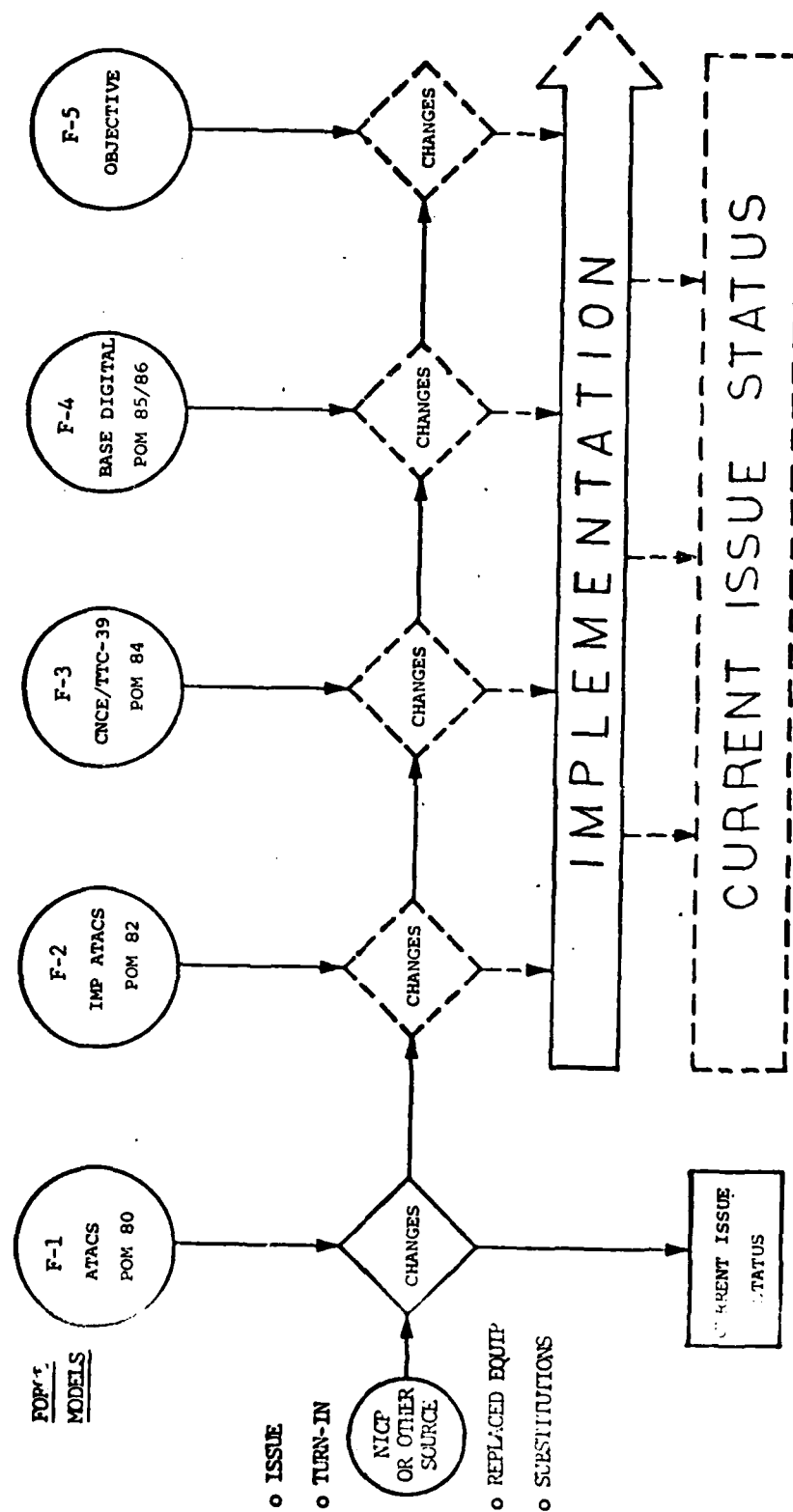


Figure 5-2 Specific Unit Current Issue Status

- Establish the requirement for periodic reports from the logistics system for all future changes of affected equipment items.
- update the SUMIT file with these changes on a periodic or as required basis.

5.3 FORCE MODEL IMPLEMENTATION PRIORITIES

A number of actions must be taken and auxillary files initiated in order to create the Force Files and the Specific Unit Master Issue Tape (SUMIT). There is a logical sequence of events to be followed since creation of some files requires the previous existence of others. Initial errors which may occur in equipment, TOES or units are of no great consequence and, indeed, the system is so designed that the completion of the cycle will bring them to light so that corrections may be made and the system recycled. The sequence to be followed and an explanation of the objective of each step follows below:

5.3.1 Equipment Lists For Each Force Model

These lists are the compilation of affected equipments that will be found in a given unit in the cycle of transition from current to objective systems. During transition there will be units in all the equipment postures that have been projected and only by knowing their true status can acquisition schedules be forecast to further the transition. From their current status the next stage can be projected automatically from the Force Models thereby preparing the acquisition schedules according to the priority listing. These Force Model lists are attached as Appendix D.

5.3.2. TO/E File

This is the master file of all current TO/Es and TDAs which may be obtained through the Fort Leavenworth computer. This file contains the complete TO/E information but selected portions may be extracted as required. By using the Line Identification Numbers (LIN) from the Force Model F-1 Equipment List a listing of TO/Es for each selected equipment may be obtained. The former is

used in the process of building Force Model F-1.

5.3.3 Program Operating Memorandum (POM) 80

This input to creating Force Model F-1 is a TO/E and TDA listing of the units projected in the Force at that time. By running the requirements obtained for each TO/E from the TO/E file above, the requirements for each unit in the projected Force may be obtained.

5.3.4 Force Model F-1

The three (3) inputs and processes above will have created the total Force Model F-1 as a file and will show the total equipment requirements for that Force. To obtain structured outputs from this Force Model, subsequent Force Models, current Forces and projected Forces seven (7) output routines and formats must be created. A description of these outputs and their format is attached as Appendix F.

5.3.5 TO/E and TD/A Deviations By Unit

Force Model F-1, above, presents the selected equipment authorization for each TO/E and TD/A. Since all the units in the Force do not currently have part or all of their authorized equipment on hand, it is necessary to modify the authorization by actual issue for each unit to obtain the true current issue status. This information is available through logistics channels and steps have been taken to obtain it in a usable format.

5.3.6 Specific Unit Master Issue Tape (SUMIT)

The method of creating this tape is outlined above in paragraph 5.2. This file contains the true equipment issue status of all units in the Force and is kept current at all times by incorporating all equipment transactions that occur. Being the master file of all unit's current status, it is the base from which to project future unit status as equipment is acquired through the transition and into the objective system.

5.3.7 Force Model F-2

The procedures for creating Force Model F-2 are shown in paragraph 5.1.2. With the implementation of this Force Model, an equipment acquisition prediction can now be made through 1983.

5.3.8 Equipment Acquisition Prediction Through 1983

Implementation of the above procedures through Force Model F-2 provides sufficient files to obtain an automated equipment acquisition prediction for a given force through 1983. Given budget limitations and equipment costs, the AIIMS programs will make the year by year prediction through 1983. Details of this procedure are discussed in paragraph 5.3.10 below.

5.3.9 Force Models F-3 Through F-5

To provide a complete automated system, Force Models F-3, F-4 and F-5 must be developed. The procedures for these forces are shown in the preceding paragraphs 5.1.3, 5.1.4 and 5.1.5, respectively. With these Force Models and the previously discussed files, an automated year by year equipment acquisition prediction through the objective system may be obtained.

5.3.10 Equipment Acquisition and Distribution Prediction

This is one of the major steps in the implementation priorities necessary to automate the Transition Plan. Two (2) primary programs are used by AIIMS to accomplish these processes as shown in Figure 5-3.

To make the year by year equipment acquisition predictions, it is assumed that the current 5-Year Plan, budget guide-lines and equipment costs are available. With this information the program considers prior acquisition, if any, and calculates the amount of equipment per budget year until AAO is reached. If the AAO is not reached by the 10th year, the remainder is lumped as post 10th year acquisition. A variation of the program permits calculation to 1999 if desired. An example of the output is shown in Figure 5-4.

A refinement to this program formats the prediction information into a Procurement and Life Cycle Management Schedule for each individual equipment. Examples of these schedules are shown in Figures 5-5, 5-5A and 5-5B.

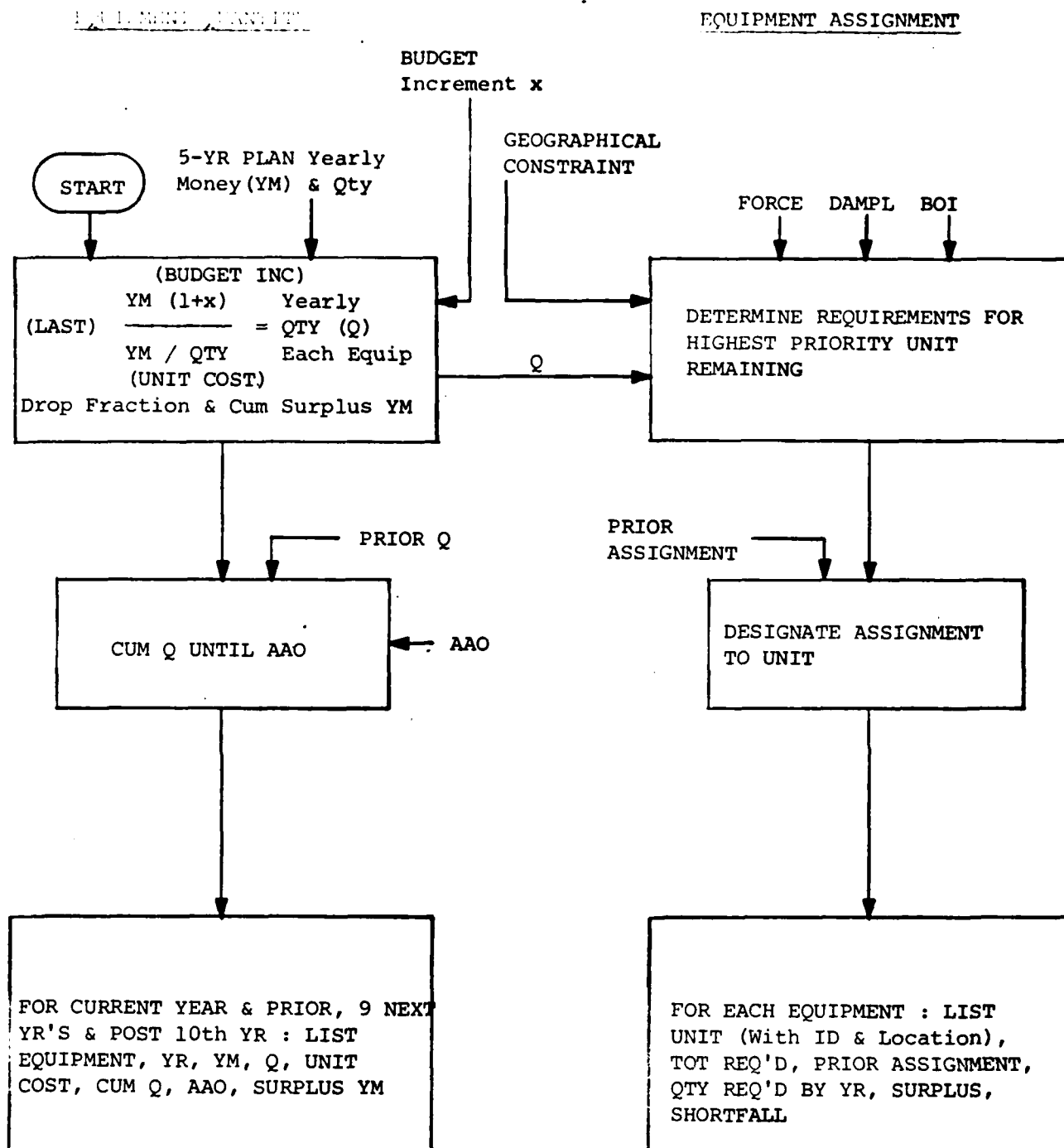


FIGURE 5-3 EQUIPMENT ACQUISITION PROGRAMS

KEY NUMBER	NOMENCLATURE	FISCAL YEAR	BUDGET	IN MILLIONS \$	CDST	ANNUAL BUY	CUM BUY	AAO REMAINING
AA0058	150-1111V1)		-0000	-0000	-0000	0	0	110
			58-0000	-0000	3-8666	15	15	95
			39-0000	-0000	3-9000	10	25	85
			20-0000	-0000	4-0000	5	30	80
			18-0000	-0000	4-5000	4	34	76
			19-8030	1-8000	4-5000	4	38	72
			21-7800	3-7800	4-5000	4	42	68
			23-9580	1-4580	4-5000	5	47	63
			26-3538	3-8538	4-5000	5	52	58
			28-9891	1-9891	4-5000	6	58	52
			31-8880	3-8880	4-5000	7	65	45
			35-0768	3-5768	4-5000	7	72	38
			39-5844	2-5844	4-5000	8	80	30
			42-4628	1-9428	4-5000	9	89	21
			46-6870	1-6870	4-5000	10	99	11
			51-3557	1-8557	4-5000	11	110	0

AA0059	17C-42(V1)		-0000	-0000	-0000	0	0	302
			-0000	-0000	-0000	0	0	302
			6-5000	-0000	-5000	13	13	289
			3-5000	-0000	-5000	7	20	282
			10-4000	-0000	-5777	18	38	264
			11-4400	-4622	-5777	19	57	245
			12-5840	-4507	-5777	21	78	224
			13-8424	-5535	-5777	23	101	201
			15-2266	-2044	-5777	26	127	175
			16-7432	-5714	-5777	28	155	147
			18-4241	-5130	-5777	31	186	116
			20-2665	-0443	-5777	35	221	81
			22-2931	-3375	-5777	38	259	43
			24-5224	-2557	-5777	42	301	1
			26-9746	26-3968	-5777	1	302	0

AA0060	10-1219		-2900	-0000	-0060	48	48	3-360
			-3000	-0000	-0030	100	148	3-312
			-2500	-0000	-0062	40	188	3-212
			1-1000	-0000	-0030	360	548	2-812
			-4000	-0000	-0033	120	668	2-692
			-4400	-0000	-0033	132	800	2-560

EXAMPLE

FIGURE 5-4 EQUIPMENT ACQUISITION BY YEAR

KEY NO. 038

TACTICAL AUTOMATIC SWITCH, AN/TTC-39 (300L)

DATE

UNIT COST \$1.7M		QTY AAO 100	FISCAL YEARS										
			79 & PRIOR	80	81	82	83	84	85	86	87	88	POST 88
UNIT PROCUREMENT	PER FY	0	0	9	12	13	13						
	CUMULATIVE	0	0	9	21	34	47						
	% AAO	0	0	9	21	34	47						
OPA \$M	PER FY	0.0	6.6	9.3	20.6	22.1	22.1						
	CUMULATIVE	0.0	6.6	15.9	36.5	58.6	80.7						
RDT&E \$M	PER FY	119.7	4.4										
	CUMULATIVE	119.7	124.1										
PLANNED REQUIREMENT		0	0	7	12	20	20	15	15	11			
NO.	COMPONENT NOMENCLATURE	COST											
2	KG-81 TED	.2K	0	0	14	24	40	40	30	30	22		
2	KG-82 LKG	.2K	0	0	14	24	40	40	30	30	22		
EXAMPLE													
BOI INFORMATION		MILESTONES	BEGIN FY	REVISED	END FY	REVISED							
2 PER 11-405		ADV DEV	4Q72 (JUN 72)		2Q74 (DEC 73)								
2 PER 11-407		ROC			1Q72 (SEP 71)								
1 PER 11-417		VAL IPR			3Q74 (MAR 74)								
1 PER 11-506		ENG DEV	4Q74 (APR 74)		2Q79 (FEB 79)								
1 SIG CENTER		DT/OT II	2Q79 (FEB 79)		1Q80 (NOV 79)								
		DEVA IPR			3Q80 (JUN 80)								
		TC (INITIAL)			3Q80 (JUN 80)								
		DT/OT III	4Q81 (SEP 81)		3Q82 (JUN 82)								
		IOC			3Q82 (JUN 82)								
NOTES: ITEMS REPLACED, MOS REQUIRED, SPECIAL PROCUREMENT INFORMATION, DESCRIPTION, ETC. ACN: 22720 LIN: B68700													

Figure 5-5 Procurement and Life Cycle Management Schedule

TACTICAL AUTOMATIC SWITCH, AN/TTC-39 (300L)

DATE.

BOI INFORMATION

EXAMPLE

NOTES:

56

DATE XX/XX/XX
LIFE CYCLE MANAGEMENT SHEET
L. SMITH

1

AGE CONTROL
BY (NAME)

DATE XX/XX/XX

KEY NUMBER: XXXXX

NOMENCLATURE: XXXXXXXXXXXXX

ACRONYM: XXXXXXXXX

DESCRIPTION: XXXXXXXXXXXXXXXXXXXXX

UNIT COST

QTY AAO

ZZZZZ9

FISCAL YEARS

ATIMSP0022

PAGE 1

ZZZZZ9999

ZZZZZ9

ZZZZZ9

ZZZZZ9

ZZZZZ9

POST 99

UNIT

PER FY

CUMULATIVE

% AAO

ZZZZZ9

ZZZZZ9

ZZZZZ9

OPA \$M

PER FY

CUMULATIVE

ZZZZZ9

ZZZZZ9

ZZZZZ9

ZZZZZ9

RODLE \$M

PER FY

CUMULATIVE

ZZZZZ9

ZZZZZ9

ZZZZZ9

ZZZZZ9

PLANNED REQUIREMENT

NO. COMPONENT NOMEN

ZZZZZ9

ZZZZZ9

ZZZZZ9

ZZZZZ9

99 XXXXXXXXXX

ZZZZZ9

ZZZZZ9

ZZZZZ9

ZZZZZ9

ZZZZZ9

BOI INFORMATION

9999 PER XXXXX

ZZZZZ9

ZZZZZ9

ZZZZZ9

ZZZZZ9

REVISION

REVISION

REVISION

REVISION

REVISION

REVISION

END FY

END FY

END FY

END FY

END FY

END FY

PROJECT OFFICE: XXXXXXXX

SSN: XXXXXX

LINE NO: X99999

ACN: 99999

NOTES:

NOTES:

The other primary program is used to make distribution of the equipment to specific units from the predicted budget year acquisition. These yearly quantities are used in conjunction with the BOI, Force and DAMPL to make the assignments in accordance with the selected scheme of distribution. An output example of this distribution is shown in Figure 5-6. A variation of this program lists each unit separately and the equipment it is to receive by year (Figure 5-7). By using production schedules for the equipment as an input this program can shift the unit assignment from the budget year to availability year and becomes the basis for the equipment fielding plans.

5.4 PREDICTED FORCE STATUS

With the information now available in the various files, the equipment status for any Unit, any Force or the Total Force can be obtained. A flow chart showing this process is given in Figure 5-8. The Specific Unit Master Issue Tape is always the base from which to start since it presents the true equipment status of the units. By adding the equipment on previous and current procurement, the status for the current year will be obtained. To this is added the equipment budgeted for the next fiscal year to obtain the units projected status at the end of that year. At this point the predicted status for future years may be started. With a projected budget for each future year, projected equipment buys are applied to the Force authorizations in priority order and the unit status will be predicted for each future year (Refer to Figures 5-2 and 5-3). Additional iterations of the above can be made as estimated type inputs are solidified or when major changes in budget, Force, production, etc. occur.

[illegible][illegible]

FIGURE 5-6 EQUIPMENT DISTRIBUTION BY UNIT-BY YEAR

DATE 02/19/81

TITLE: EQUIPMENT DISTRIBUTION BY UNIT AND BUDGET YEAR

A11MSP0009

PAGE 1

DANPL LOC UIC UNIT-ID UNIT NOMENCLATURE SRC
 [REDACTED] [REDACTED] [REDACTED] USASC & FG ING REQ 1190UM000

QTY BIC
 YEAR BUDGETED POST

KEY NUMBER KEY NOMENCLATURE KEY DESCRIPTION PRI 82 83 84 85 86 87 88 89 90 90

AA0041 58-3865 AUTO SWBD (30L) 0010 10
 AA0058 TSQ-112(V1) CDM MODAL CTRL ELEM 0002 2
 AA0060 KY-90 DGL NET RAD INT UNIT 0015 15
 AA0118 TSQ-112(V3) COML MODAL CTRL ELEM 0002 2
 AA0141 TA-956 DIG VON-SEC TP 0050 50
 AA0447 TA-981 DIG VON-SEC TP (M3N-RUG) 0050 50

DANPL LOC UIC UNIT-ID UNIT NOMENCLATURE SRC

[REDACTED] [REDACTED] HMD SJC BN 11116H700

QTY BIC
 YEAR BUDGETED POST

KEY NUMBER KEY NOMENCLATURE KEY DESCRIPTION PRI 82 83 84 85 86 87 88 89 90 90

AA0143 TA-956 DIG VON-SEC TP 0010 10
 AA0146 MOD RECORD TFC TML (SINGL) 0001 1
 AA0147 UXC-4 TAC REC TFC FAX 0001 1

DANPL LOC UIC UNIT-ID UNIT NOMENCLATURE SRC

[REDACTED] [REDACTED] CO OP FORWARD 32089H400

QTY BIC
 YEAR BUDGETED POST

KEY NUMBER KEY NOMENCLATURE KEY DESCRIPTION PRI 82 83 84 85 86 87 88 89 90 90

AA0146 UXC-4 MOD RECORD TFC TML (SINGL) 0001 1
 AA0147 TAC REC TFC FAX 0005 5

EXAMPLE

FIGURE 5-7 UNIT EQUIPMENT DISTRIBUTION BY YEAR

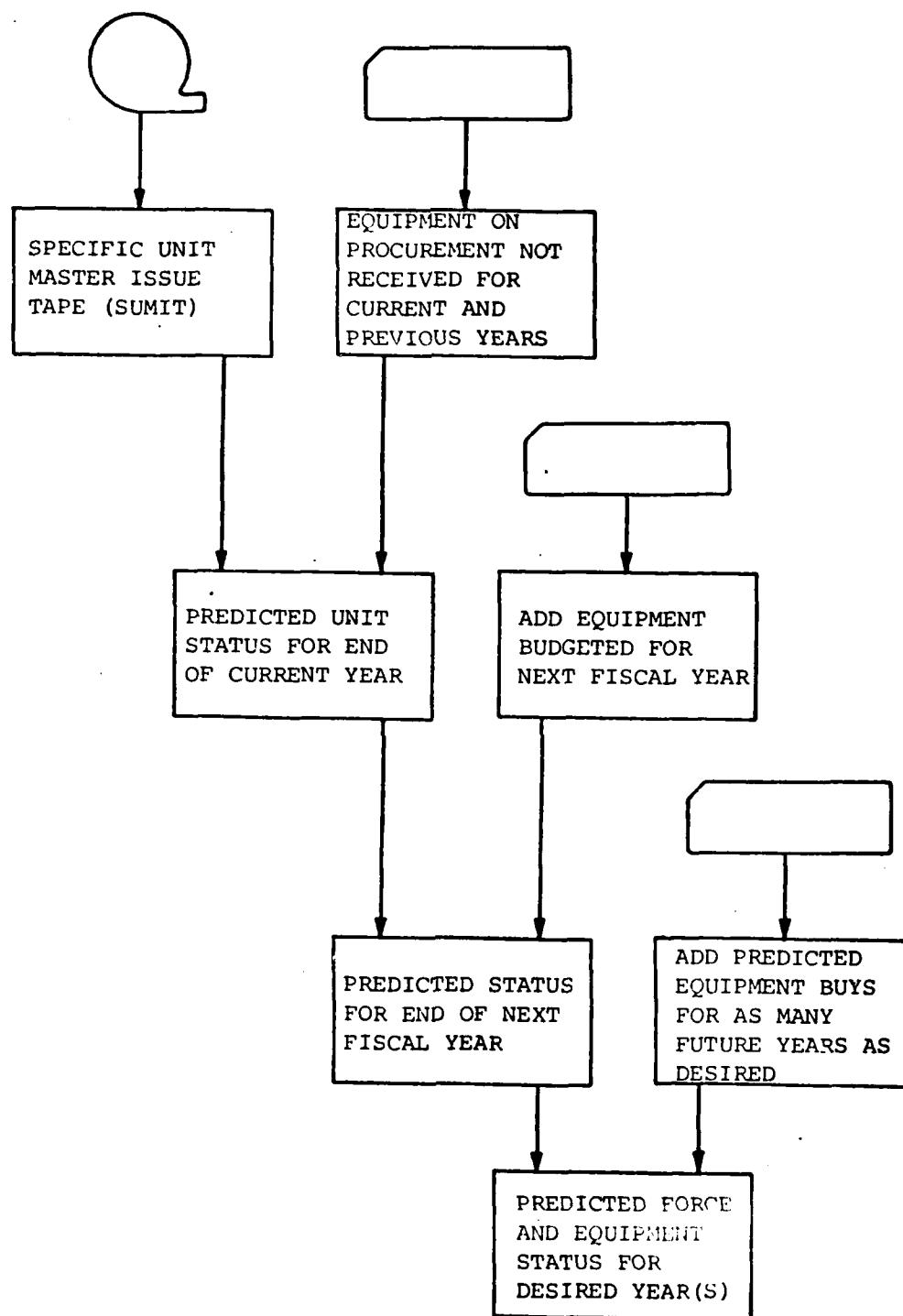


Figure 5-8 Predicted Force Status

When the prediction for future years is carried to the point where all units are equipped with their authorized Objective System equipment, then the Transition Status of the Total Force to the Objective System in terms of money and time may be shown in graphic form (See Figure 5-9). From the equipment acquisition output (Figure 5-4), the Transition and Objective equipment may be obtained by cost and year of purchase. This information can be plotted showing the phase-out procurement of ATACS equipment and the phase-in of the Objective equipment. Other types of presentations may be obtained by plotting the equipment by categories such as Consec, Single Channel, TACSAT, etc. By projecting the transition scheme against the above, a fairly accurate presentation of when the force, by priority area, will be completely equipped with the Objective equipment. These graphic presentations will be of value for the medium and long range planners and in developing the budgets for future years.

5.5 REQUIRED INPUTS

A number of inputs are necessary to build the data base for AIIMS and to provide the elements on which the programs operate. Some of these inputs such as IOCs, BOIPs, etc. are a one-time input and only require another input when a change occurs. Other inputs, such as budget and POM require a periodic submission to keep the program elements current. Most of the required inputs originate in organizations outside the U.S. Army Signal Center, therefore, procedures must be established to assure that they can be obtained in a timely manner. A list of the required inputs and the recommended organization to provide them is in the following paragraphs and in the recommended draft Army Regulation, AR 15-23 attached as Appendix C. A summary of the inputs and their source is shown in Table 5-1.

5.5.1 Budget

The budget is one of the prime inputs required to run the model for any prediction and to acquire equipment by budget year. The budget may be actual or a forecast for a particular year. Initially,

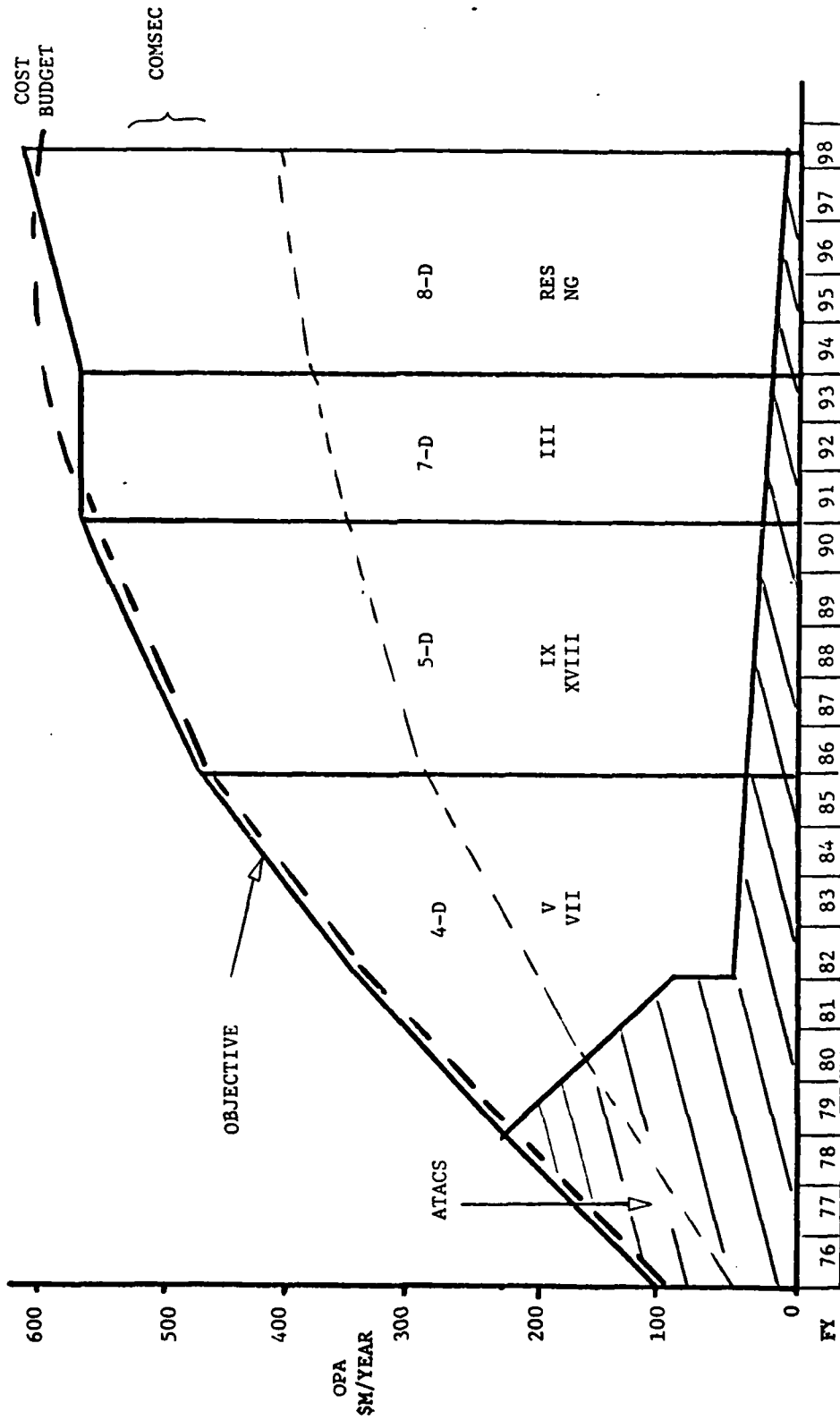


FIGURE 5-9 IMPLEMENTATION STATUS

<u>REQUIRED INPUT</u>	<u>PRIMARY SOURCE</u>
1. Budget (Actual and Predicted)	DA Staff
2. Program Objective Memorandum (POM)	DA Staff
3. DA Master Priority Listing (DAMPL)	DA Staff
4. Equipment Costs	DA Staff
5. Initial Operational Capability (IOC)	DARCOM
6. Equipment Production Rates	DARCOM
7. Army Acquisition Objective (AAO)	DA Staff
8. TOE and BOI	TRADOC
9. Force Model Equipment Lists	Signal Center
10. Research, Development and Acquisition Committee (RDAC) Sheets	DA Staff
11. Current Issue Status	DESCOM
12. Issues, Turn-ins and Redistribution	DESCOM

TABLE 5-1 Required SIMO inputs for Acquisition and Distribution

to project equipment requirements for the next fiscal year, the budget will be an estimate of the monies to be available and the model will be run with that amount. If the equipment list shows a unit partially equipped with a type of equipment and in an incompatible status, then management must make an adjustment. After a budget is actually allocated for the next fiscal year, a final run is made on the model and the output becomes the adjusted procurement list. The budget information is provided from the Department of the Army through normal command channels in accordance with the budget cycle scheduling.

5.5.2 Program Objective Memorandum (POM)

This document contains the master list of all units, both actual and planned, within the Army. When used with the TOEs, the totals of equipment required to outfit Army, National Guard and Reserve units can be calculated. The additional contingency equipment for planned units can also be determined. The POM is distributed from the Department of the Army through regular channels on a yearly basis.

5.5.3 Department Of Army Master Priority Listing (DAMPL)

The DAMPL gives the rank-ordered priority for allocation of resources for all the units shown in the POM. The Transition Plan implementation will utilize the DAMPL to assign equipment to units based on their priority. Normally, the priorities will fall in groups based on a geographical area. This is desirable so that equipment may be introduced on a compatible basis and that an area may be equipped in the shortest possible time. Any unit in the same priority group, but in a different area should be flagged by AIIMS and not assigned equipment until that area is started with all units. The DAMPL is obtained from the Department of the Army through normal command channels on a yearly basis.

5.5.4 Equipment Costs

The cost of the equipment is an essential input since cost is accumulated against the budget constraint as the AIIMS Model assigns equipment in accordance with the unit authorizations and priorities.

Costs are subject to frequent changes due to inflation, Engineering Change Proposals on equipment and other factors so that frequent updating of the data base is necessary. It is recommended that an update be obtained on a quarterly basis. The costs should be originated on the selected equipment by DARCOM and validated by the Department of the Army Comptroller before being furnished to the Signal Center for AIIMS use.

5.5.5 Initial Operational Capability (IOC)

The IOC time frame is an input to the AIIMS Prediction Model as a constraint. The IOC determines when sufficient equipment is available and the unit has had enough training to effectively utilize it. Prior to that year the equipment is not available to AIIMS for placing on the predicted procurement list although funds may be available. The equipment IOC list is originated by DARCOM and furnished to the Signal Center with updates on a semi-annual basis.

5.5.6 Equipment Production Rates

The rate at which equipment can be produced, considering production capacity and the optimum buy is also a constraint in predicting the year by year amount of equipment to procure. This must be entered into the model so that the equipment availability is not exceeded. This rate can be furnished by DARCOM and will need to be updated only as changes occur.

5.5.7 Army Acquisition Objective (AAO)

The total planned buy of an item for a specific period is treated as an input to AIIMS. The model keeps track of the cumulative amount bought and ceases to call out more when the objective total is reached. AIIMS can compute the initial AAO, based on requirements, with a sub-routine. However, the final decision must be made by the Department of the Army which will consider factors other than just TOE requirement.

5.5.8 TOE and BOIP

Both the TOE and BOIP information is required as input to the prediction model. The TOE will reflect the currently authorized equipment and amount while the BOIP will provide the same information for new equipment coming into the system. When these are run against the POM a file is created which has the equipment authorization by specific unit. Both files are kept and maintained by the Training and Doctrine Command and may be accessed directly by the Signal Center.

5.5.9 Force Model Equipment Lists

These lists were generated specifically for AIIMS to provide equipment lists which cover the current equipment through transition to the objective equipment. They contain the communications equipment coming into the system as well as that which will be phased out. The model selects specific equipment from the lists for each unit in priority order during the prediction years of transition. The completed Force Model Equipment Lists are attached as Appendix D and require updating only if a particular piece of equipment is added or deleted.

5.5.10 Research, Development and Acquisition Committee (RDAC) Sheets

These sheets are required for the initial input to AIIMS since they reflect the equipment that has been budgeted for procurement for the next fiscal year. The AIIMS program, starting with the current issue, adding equipment on procurement and the RDAC first year projected procurement, will then generate by prediction the information for the following fiscal year RDAC sheets. These sheets are prepared by the Department of the Army and are available to the Signal Center through regular channels.

5.5.11 Current Issue Status

It was stated earlier and is now re-emphasized that the entire success of a smooth and timely transition depends on knowing exactly the quantity and type equipment

logically proceed with procurement plans on a unit by unit priority basis, the on-hand versus authorized equipment must be known. Then the transition strategy can be implemented by priority and redistribution of older assets can be accomplished. Once AIIMS has built the current authorized files they can be modified with the actual equipment in the field by specific unit. This file then becomes the Specific Unit Master Issue Tape (SUMIT). The information required to create this tape is available from the Depot System Command.

5.5.12 Issues, Turn-Ins And Redistribution

The current issue status, above, is the starting point and will have no further value unless it is kept current. Each issue or turn-in of a unit as well as equipment that is transferred between units must be tracked and the appropriate changes made to SUMIT. This is important because SUMIT is the basic input for AIIMS every time a prediction run is made. If the input data is incorrect the error will be magnified through the units as successive year forecasts for procurement are made. It is recommended that updates be made on a monthly basis and that the information be obtained from the Depot System Command.

5.6 IMPLEMENTATION SCHEDULES AND SUMMARIES

One of the primary functions of AIIMS as a tool of INTACS Management and Transition is to receive, store and process the tremendous amount of data relating to transition and to produce output schedules and summaries that are clear, concise and usable in the management process. To this end a number of formats have been developed which will provide information to the users in the form that is most suited to their individual needs. Deviations from this output information for special requirements made be had by limiting, changing or enlarging one or more of the parameters in the processing programs or in the inputs themselves.

5.6.1 Equipment and Force Summaries

The following summaries are provided in the formats as shown in Appendix F:

- Equipment Identification List
- Equipment Summary by Force
- Equipment Assemblages by Force
- Components to Assemblages by Force
- End Item associated/Ancillary Equipment List by Force
- BOI File by Force
- TOE File by Force

Normally these summaries will be created on a yearly basis when the POM is revised, however, additional runs can be made whenever there is a change in the Force. The initial summaries will be made on the entire POM Force. Extracts from these master summaries can be made to satisfy any particular area of interest from single pieces to groups of equipment and for any Force desired or for any combination of equipment and Force. Annual distribution of the complete summaries will be made to the members of the INTACS Steering Committee, The Signal Center and CORADCOM. Complete summaries, selected summaries and extracts of summaries may be provided to others on an "as required" basis.

5.6.2 Specific Unit Master Issue Tape

Also known as the Current Issue Tape, this file contains all the units in the POM and shows the line by line equipment status for all equipment involved with the transition. Since this file contains voluminous data and is very large, plus the fact that it receives frequent updating, it will normally not be printed in its entirety. The primary function of this file is to act as the current data base for the manipulation and output of other programs. All or part of it may be furnished to anyone who has a need for the data in this format.

5.6.3 Equipment Acquisition List

This is the master output of the AIIMS Prediction Model and shows on a year by year basis by budget the specific equipment to be procured based on input material previously discussed. By altering the budget year with the equipment production schedules, this same program will produce an acquisition list which becomes the basis for fielding schedules. This program will be run on an annual basis corresponding to the budget cycle, however, a number of runs may have to be made during this period to incorporate input refinements that result from a previous run and as a result of management decisions. Subsequent runs may occur during the year if there are budget and/or equipment availability changes. Distribution of the first year prediction will be made to the members of the INTACS Steering Committee, The Signal Center, CORADCOM and DESCOM. (See Figure 5-4 for format).

5.6.4 Equipment Redistribution List

As the Equipment Procurement List is being generated, a second file can be created which will show what equipment is being replaced by type and quantity on a yearly basis. In the early transition years, this equipment will generally be of a later generation than that on hand in the lower priority units. Initially, this list can be used to make a manual determination of redistribution to lower priority units. By incorporating a new sub-routine, AIIMS can make this determination by automation. Since budget is not a consideration, the key factor will be equipment quantity. By using the same logic as that required for the Equipment Procurement List, the SUMIT file will be checked in priority order to determine which units do not have this equipment. An assumption is made that this redistributed equipment will be what is authorized on the TOE and that the equipment in the receiving unit is of an earlier vintage. Thus, equipment older than that currently authorized will be a turn-in and no redistribution of it will be made. A point will eventually be reached where there will be no redistribution and the lower priority units will begin to be equipped with the Objective Equipment in accordance with the normal Equipment Procurement List procedures.

5.6.5 Procurement and Life Cycle Management Schedule

While the computer print-out is not exactly in the format shown in Figure 5-5, all of the data is automated and presented for transcription on the pre-printed form. The information on this schedule is derived from the AIIMS Prediction Model with the Life Cycle Management information extracted from other files. Each sheet, with continuation pages as necessary, contains the complete information on a single equipment item or assemblage for 10 years or until the AAO is reached. These schedules will be produced on an annual basis or whenever

the AIIMS Prediction Model is run. The Steering Committee, The Signal Center, CORADCOM and DESCOM. Local reproduction within Agencies may be made for action officers in their area of interest.

5.6.6 Equipment Distribution By Year By Units

This schedule is based on the equipment acquisition schedule produced earlier. The yearly quantities of equipment are matched to the specific units by DAMPL in accordance with the selected distribution scheme. Each equipment is shown with unit assignment for prior year, through a 10 year period, and the remainder as a post-10 year assignment. An example of the output is shown in Figure 5-6. This list may be produced each time the Acquisition Program is run.

5.6.7 Equipment Distribution By Unit By Year

As an alternative to the above program, this schedule lists units, in priority, and shows what equipment is assigned to each over the same time frame. This list may be produced each time the Acquisition Program and the above run is made. An example of the format is shown in Figure 5-7.

5.6.8 Other Schedules and Summaries

The SIMO automated programs will be completely flexible to the data acted upon. In addition to extracts of the above schedules and summaries which may be had through utility programs, the programs may be used to create other scenarios. For example: A new Force may be designated and the programs used to determine what equipment is required for a particular time frame and what it will cost. Any of the inputs such as BOI, type equipment, cost or quantities required may be varied to provide comparison outputs. These type variations may be requested from SIMO through the procedures shown in the SIMO Automated Program Users Manual.

5.7 FIELDING SCHEDULES

The objective of Fielding Schedules is to provide times when equipment, personnel and logistical support will arrive at a unit in sufficient quantities to allow for a compatible, operating system. Extensive coordination is required among the Combat Developer, Materiel Developer, Logistician, Trainer, and Receiving Unit to ensure that this occurs within an acceptable time frame. The automation of procurement schedules by AIIMS is a tremendous asset in this regard and leads directly to the automation of the Fielding Schedules themselves. The availability of procurement schedules well in advance of production enables the planners to make much more accurate forecasts of training requirements, including quantities, type training, timing, facilities and resources. In addition, the ability of AIIMS to receive changes, corrections, and updates; rapidly process them; and then provide new outputs allows for the planning to stay current. A simplified flow chart of the automated method of obtaining fielding schedules is shown in Figure 5-10. The required inputs for the schedules are shown in Table 5-2. The following paragraph numbers correspond to the block numbers in the flow chart:

1. Equipment Procurement Lists - The official equipment procurement list is obtained from the RDAC Sheets; however, AIIMS combines this with the specific unit by priority, adds the production dates and makes a prediction of equipment procurement past that shown on the RDAC Sheets. These lists are the basic input data for planning and with the addition of other pertinent factors will produce the actual equipment and personnel fielding schedules. The information on the RDAC Sheets is recorded and may be obtained from the Department of the Army by electrical means.
2. The training requirements for each equipment are extracted from the PQPRI and the QQPRI as part of the life cycle management. Any additional information required may be obtained by coordination with the Materiel Developer and the Trainer.
3. For the equipment that does not require formal school training, a list is developed showing the quantity for each unit which will require unit training. These lists will be furnished to the appropriate units in advance so that preparation can be made to conduct unit training.

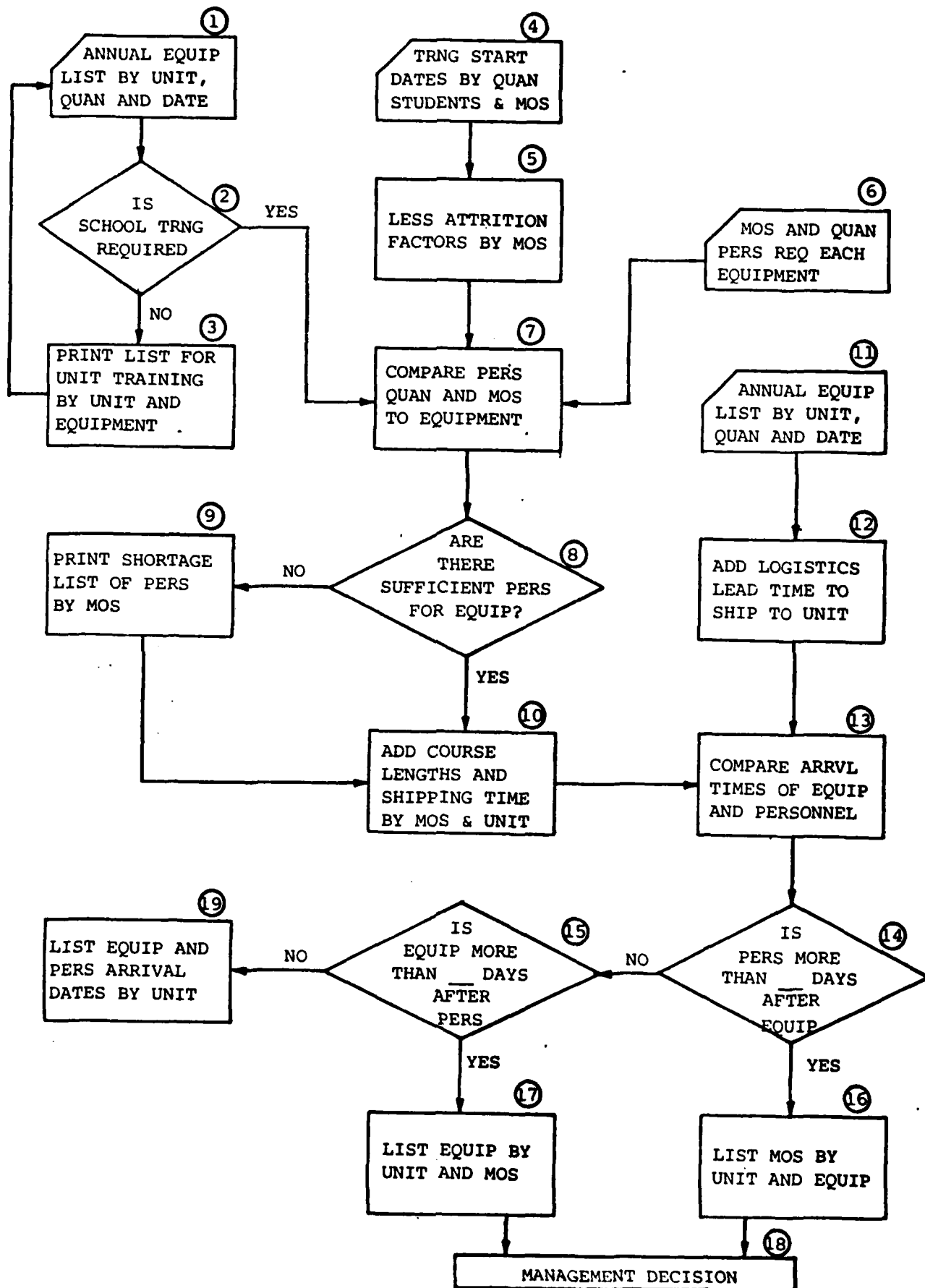


Figure 5-10 Flow Chart For Fielding Schedules

<u>REQUIRED INPUT</u>	<u>PRIMARY SOURCE</u>
Annual Procurement Lists	RDAC Sheets and AIIMS
Training Requirements Per Equipment	PQQPRI and OQPRI
MOS Course Dates by Student Quantity	The Signal Center
Attrition Factors by MOS	The Signal Center
MOS and Personnel Quantity Per Equipment	PQQPRI and OQPRI
MOS Course Lengths	The Signal Center
Personnel Shipping Time To Unit	DA Staff
Logistics Lead Time For Equipment	DA Staff
Production Schedules	DARCOM

Table 5-2 Required Inputs For Fielding Schedules

4. Another basic input is the start date of each MOS course and the planned number of students scheduled for the course. The course length should be an input at this time as well as the time required for any special qualification training to be performed. Student assignments, by name, to specific units should occur as early as possible. All of this information is available within the Signal Center.

5. Various factors, such as academic failure, illness, and court martials account for recycling or withdrawal of personnel from the courses. Statistically these numbers can be determined and the number of graduates should be reduced by the appropriate amount. The information for this input is available within the Signal Center.

6. The MOS requirement and the number of personnel for each equipment, or per unit based on equipment density, will normally be set up as a fixed input to the program. This input will usually be obtained from the PQQPRI and QQPRI. These numbers may be changed if management decides the situation warrants it.

7. In this process the previous inputs are compared to match the amount of personnel by MOS to the amount and type of equipment that is on the equipment procurement list.

8. The above comparison results in a file which will show the status of operators and maintenance personnel for the amount of equipment. A determination must be made at this time if there are going to be sufficient trained personnel to support the equipment going into the field. Consideration is not given to an overage since course input planning should preclude this or make it minimal while a shortage may be unavoidable because of availability of input.

9. At this time a personnel shortage list will be printed showing the shortfalls by MOS and quantity. Resolution of a shortfall situation is a decision of management who must consider all of the alternatives available. A prime consideration is that a shortfall may become cumulative on complex equipment as more of the objective system is fielded and replacement training must be done for the earlier deployments.

10. The course lengths and shipping time for personnel are added to the course start dates. This will give the dates when personnel are due to arrive at their units and later will be compared to the equipment arrival times. The average leave and travel time to various locations can be obtained from DCSPEP at the Department of the Army.

11. The input in Step 1 is now brought into play in the program again. The required information consists of the equipment, quantity, production dates and the unit to which it will be assigned. The production dates are obtained through DARCOM. For equipment not on contract, a production rate will be used and an even production flow assumed.

12. To the above dates is added the additional time required to process and ship the equipment to the receiving unit. This estimate can be obtained through DCSLOG at the Department of the Army and should include shipping and receiving processing, shipment scheduling, intermediate storage and any other known factors to make the times as accurate as possible. If government furnished items are to be installed in an assemblage at the production facility or if an assemblage is to be completed at a depot, this time must be calculated and counted. This operation in the program determines the earliest date that the equipment will be ready for deployment by the unit.

13. The information is now available as to the projected arrival time in the units of the equipment, operating and maintenance personnel, and in what quantities. By making a comparison, management has the tool to determine if the initial advance planning factors are correct, within acceptable limitations, or what adjustments are required.

14, 15. Too much of a mismatch in arrival times of equipment and personnel leads to some undesirable effects. Skill level retention by school trained personnel tends to drop rapidly if not reinforced by employment. If equipment arrives too much earlier than personnel, intermediate storage may be required with its attendant expenses. Some training requirements are more critical than others. For example, school trained personnel will accompany the AN/TTC-39 Tactical

Automatic Switch in their initial deployment. Other types of equipment will not have requirements as rigid. Therefore, a determination must be made of the time allowable for a mismatch for each MOS and type of equipment.

16, 17, 18. Once the maximum mismatch time has been decided, the program will make the comparisons and print lists of the equipment and personnel, by unit, that exceed the allowable time. Management must then decide which, if any, of the dates are acceptable. Among the alternatives to be considered are: whether course start dates can be changed, if the student input per class can be increased, can additional courses be conducted, or if the number of school trained personnel per equipment can be lowered and the teams augmented with on-the-job-training personnel.

19. For the equipment and those personnel who are scheduled to arrive in a unit within an acceptable period of time, the lists will be printed and distribution made. Updating program runs are made as required and new lists distributed. This permits a unit to make early plans for the receipt of equipment and personnel and to provide for follow-on unit training as well as to make any necessary operational changes.

5.8 IMPLEMENTATION MANAGEMENT PROCESS

Automation of data bases, procedures and schedules does not relieve management of its responsibility for making the system work. Rather, it provides the means whereby the overall process is enhanced, permitting management to focus on those areas where emphasis will produce the greatest progress within the system. To achieve this, the basic processes must be carefully instituted so that they will be sound, sustaining and flexible to the demands of the system. The methods and procedures described in the foregoing sections are designed to meet these qualifications and to provide a system of automated INTACS implementation information that will satisfy the requirements of all known and potential users. The SIMO Data Base, when used in conjunction with the automated processes and management methodology described in the INTACS Management Plan, will provide from one source all of the Life Cycle Management and Transition information for tactical communications equipment. Additional ADP capability for SIMO is required at the Signal Center to overcome the inherent problems of remote access such as line failures, slow turn around and slow direct print-out. Off-line capability will provide for program validation and pre-processing of data base inputs. The processes of the management methodology are covered in detail in the INTACS Management Plan.

5.8.1 Data Base Input Management

SIMO must maintain an extensive number of data bases from which information can be drawn by the operating programs. All of these data bases require updating inputs from a variety of sources. A consolidated list of these inputs, their primary sources and recommended frequency of receipt is presented in Table 5-3. These inputs are also listed in the Draft Army Regulation 15-23, attached as Appendix G, which will establish the authority for requesting them on a periodic basis. In addition, there are a number of files and tables which are internal to the SIMO programs and are maintained by the operating personnel.

Some inputs to SIMO are also based on the preliminary outputs. For example, the RDAC Sheets are an initial input, however, the

<u>REQUIRED INPUT</u>	<u>SOURCE</u>	<u>FREQUENCY</u>
o Budget (Actual and Predicted)	DA Staff	Annual and WCO
o Program Objective Memorandum (POM)	DA Staff	Annual
o DA Master Priority Listing (DAMPL)	DA Staff	Annual
o Equipment Costs	DA Staff	Initial and WCO
o Initial Operational Capability (IOC)	DARCOM	Initial and WCO
o Equipment Production Rates	DARCOM	Initial and WCO
o Army Acquisition Objective (AAO)	DA Staff	Initial and WCO
o TOE and BOI	TRADOC	Initial and WCO
o Force Model Equipment Lists	SIG CEN	Initial and WCO
o Research, Development and Acquisition Committee (RDAC) Sheets	DA Staff	Annual
o Current Issue Status	DESCOM	Initial
o Issues, Turn-Ins, Redistribution	DESCOM	Quarterly
o Annual Procurement Lists	DA Staff & SIG CEN	Annual and WCO
o Training Requirements Per Equipment	SIG CEN	Initial and WCO
o MOS Course Date by Student Quantity	SIG CEN	As Required
o Attrition Factors by MOS	SIG CEN	Initial
o MOS and Personnel Quantity Per Equipment	SIG CEN	Initial
o MOS Course Lengths	SIG CEN	Initial
o Personnel Shipping Time To Unit	DA Staff	As Required
o Logistics Lead Time For Equipment	DA Staff	As Required
o Production Schedules and Rates	DARCOM	As Required

Note: WCO=When Changes Occur

Table 5-3 SIMO Required Inputs, Source and Frequency

SIMO predicted equipment procurement lists for future years are an input to RDAC. Similarly, one output may be the basis for a refined input; e.g. the annual equipment procurement list provides a means for the trainer to do more precise planning on MOS Course Dates and Quantity of Students per Course.

Close coordination with the primary sources is necessary to insure maximum accuracy of all inputs. A number of SIMO outputs, such as TOE File by Force and BOI File by Force, within themselves facilitate a re-check of the validity of the original input data. Additionally, each data base, except those on an annual input schedule such as Budget, POM, etc. should be printed out annually and sent to the original source for verification.

As an additional management measure to insure the most up to date information is used, each output should contain in its header format which data bases were used and the date of its last revision. Since the output users include the agencies which supply the inputs this will provide another check that the data used was the most current available.

Many of the required inputs to SIMO are now available, either directly or indirectly, by electrical means (Figure 5-11). Other inputs will also be available in this manner when access terminal facilities are installed.

5.8.2 Operating Programs Management

A number of programs have been developed by SIMO to provide the data required for the Transition Plan and others are to be developed. The inputs, programs and outputs are described in the Draft SIMO Automated Program User's Manual which is designed to provide agencies involved in the transition with knowledge of what information is available to assist them. These are also described in foregoing parts of this plan and to include the details of how they are used to generate the required information.

Maintenance of the programs is a function of the SIMO Computer Specialist Personnel. All programs must be cataloged and documented in accordance with the standard operating procedures of automatic data processing.

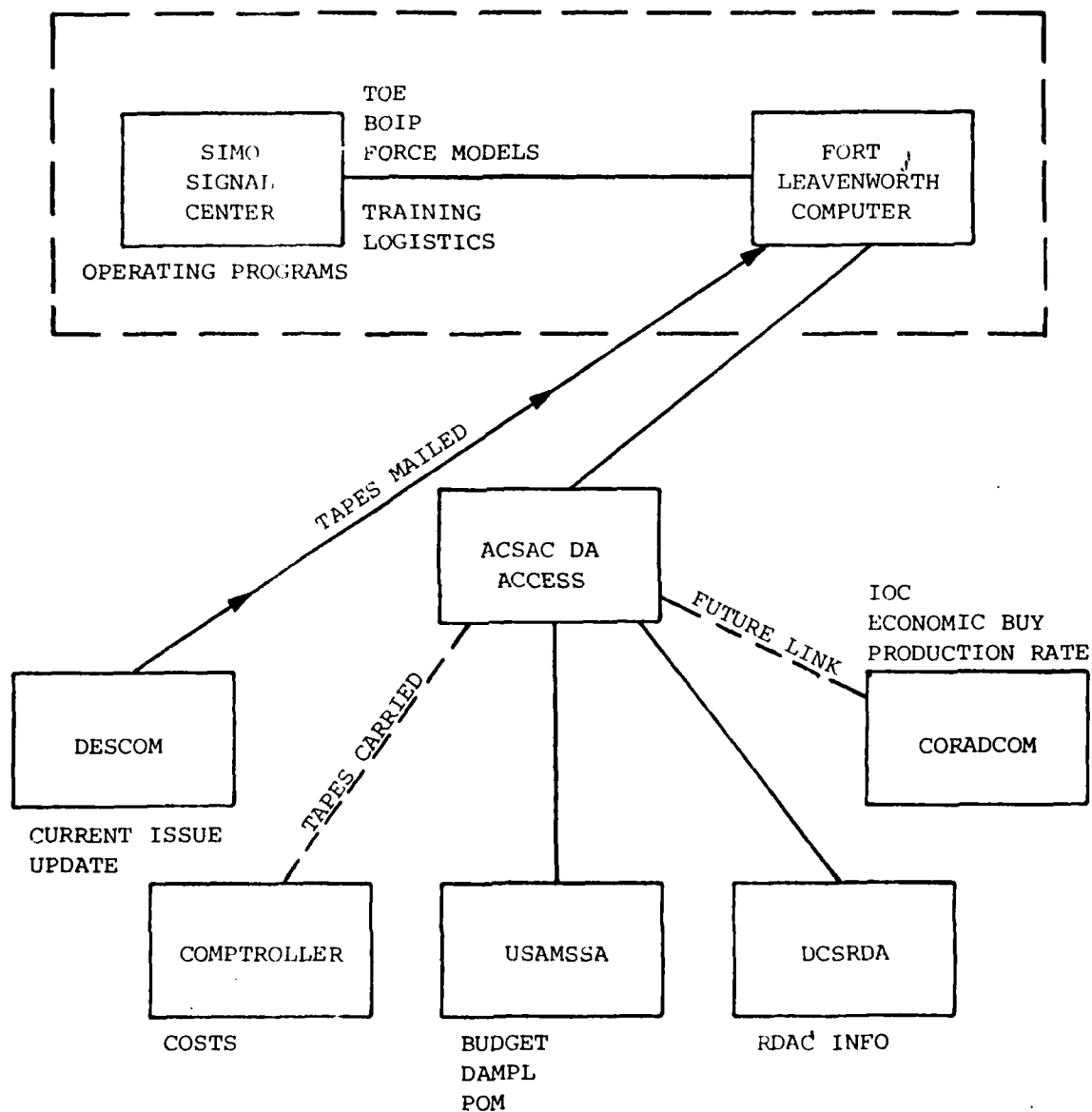


FIGURE 5-11 SIMO INPUTS, INTEGRATION AND UPDATE

5.8.3 System Output Information Management

SIMO outputs will be on both a scheduled and on-call basis. As user requirements for periodic outputs are developed provision must be made for a suspense system which will state which selected reports are due to which specific offices. The capability for one-time reports, extracts of reports and format modifications will be available in the completed SIMO Data Base. The procedures for requesting periodic and special reports are covered in the SIMO Automated Program User Manual.

Internal to the data bases used by SIMO to produce output will be the date of the last update, which programmer made the update, the date the data was received and from whom it was obtained. Only the names of the data bases used and the date of their last update will appear in the header of the outputs.

The outputs will be made available to the users by electrical means (Figure 5-11) on a limited access basis by placing the completed reports in storage at specific addresses of the central computer. The user will then be called, given the address and told that the report will be available at that address for a specified length of time. The outputs may be accessed by the user through a menu format for the desired reports. The procedures established will also provide for the electronic logging of all agencies accessing the reports, which reports they received and the date and time received. A copy of the log will be printed out once a week and provided to the Chief of the Systems Integration Management Office at Fort Gordon.

6.0 AUTOMATED TRANSITION PLAN

6.1 GENERAL

The Automated Transition Plan contains the actual force/equipment lists, equipment acquisition lists, and fielding schedules, produced by computer, and to be used by management in the implementation of the Transition Plan. As the working documents of the Transition Plan, the automated sections are furnished under separate cover to those agencies concerned with transition planning and implementation. Periodic updates of affected sections will be made when there is a significant change in an input such as budget, force, equipment, IOC, etc. Full automation of these parts of the Transition Plan permits updates to be made rapidly and electronic distribution gets them to the users in a timely manner. The following paragraphs explain the various sections of the Automated Transition Plan and the primary purposes of each. The relationships of the automated transition and evaluation procedures and the SIMO programs are shown in Figure 6-1. The various outputs by Book Index are shown in Table 6-1.

6.2 EQUIPMENT FILES (Book 1)

These files list all the equipment involved from the current issue through the transition period and in the objective system. As an output they are used primarily as reference lists. As an input they provide information about the equipment to other parts of the automated system.

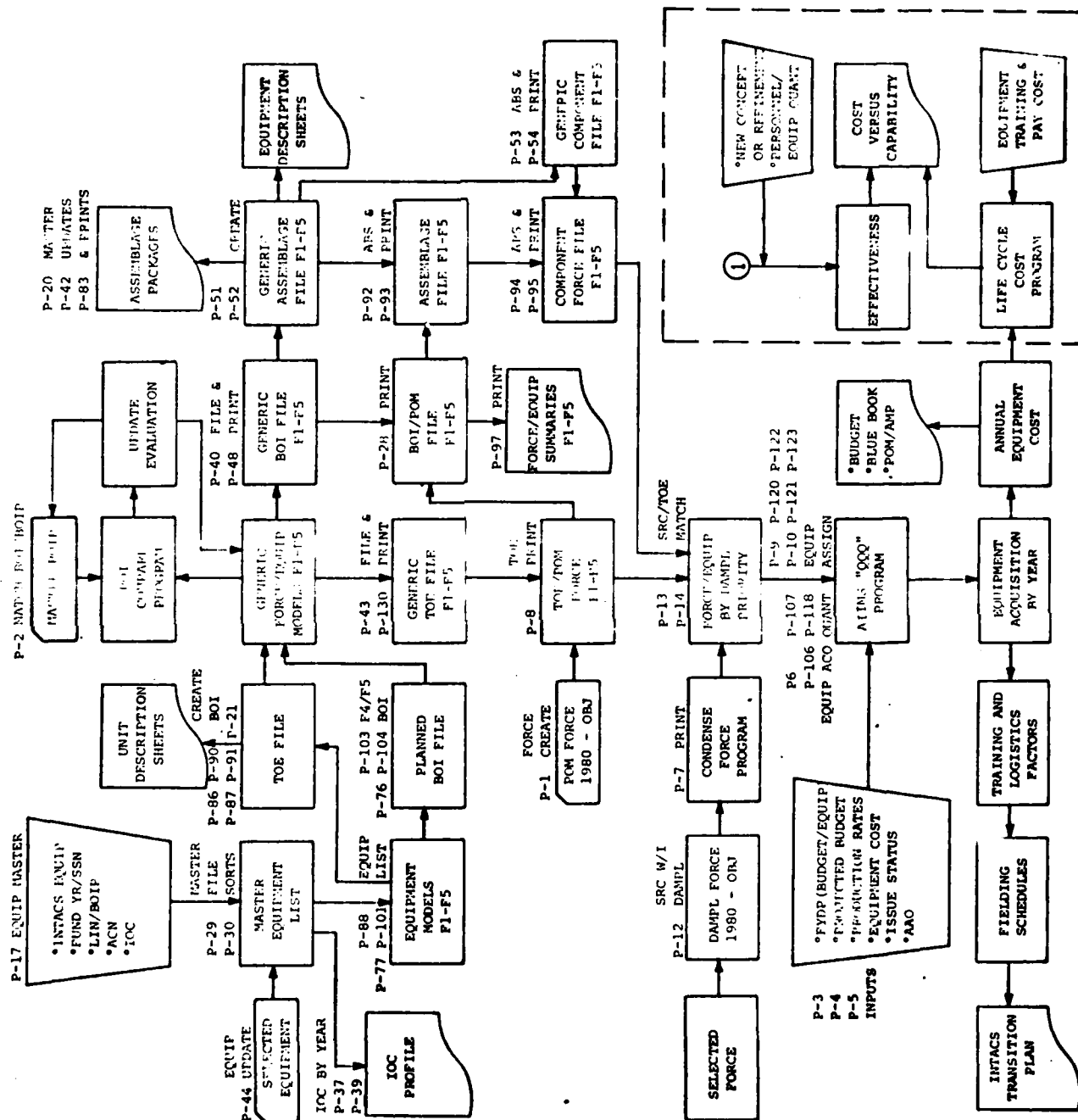
6.2.1 Master Equipment List

This listing provides the AIIMS Key Number, Nomenclature and Description, BOIP Number, Line Item Number, Funding Number, ACN and IOC of all the equipment in the AIIMS data base. The primary listing is by AIIMS Key Number but sorts may be had by any column with alphabetical nomenclature and IOC dates being the two most helpful.

6.2.2 F-1 Through F-5 Equipment Files

The column headings for these files are identical to those in the Master Equipment File but each contains the equipment only for that model. Each model represents a particular phase of transition for units as previously discussed in paragraph 5, Implementation Plan.

SIMO AUTOMATED TRANSITION AND EVALUATION PROCEDURES



AUTOMATED TRANSITION PLAN

BOOK 1 - EQUIPMENT FILES

Equipment Lists, Components and Assemblages

BOOK 1A FORCE/EQUIPMENT SUMMARY (Classified)

BOOK 2 - GENERIC BOI FILE

Generic Forces F-1 thru F-5

BOOK 3 - GENERIC TOE FILE

Generic Forces F-1 thru F-5

BOOKS 4 THRU 9 - FORCE MODEL FILES (Classified)

Force Models from Current and F-1 thru F-5 with Equipment, Summary, Assemblages, Components, Ancillary Items, BOI and TOE

BOOK 10 - POM FORCE FILE (Classified)

POM Force for each Available Year

BOOKS 11 AND 11A - EQUIPMENT ACQUISITION AND DISTRIBUTION (Classified)

Acquisition and Distribution Schedules

BOOK 12 - LCM FILE

Life Cycle Management Sheets

BOOK 13 - ASMI PROGRAM FILE

Program List, Status, Schedules, User List

BOOK 14 - SYSTEM REFERENCE FILE

LIN, TOE, BOIP, Associated Computer Systems

BOOK 15 - USER PROGRAM RUNS

Acquisition, Distribution, Special Runs

TABLE 6-1 INDEX OF BOOKS FOR AUTOMATED TRANSITION PLAN

Each Equipment File is arranged by category of equipment. i.e., Multichannel Transmission, Multiplex, TCCF, etc. Within each category, the equipment may be sorted as desired by Key Number, BOIP Number, Line Item Number, or in order under any other column heading.

6.2.3 Components to Assemblages

These are the generic listings showing the components and which assemblages they are part of by each equipment listing, F-1 thru F-5, as well as a master list..

6.2.4 Assemblage File

This file lists each assemblage by Force F-1 thru F-5 and shows the components for each. A master list of all assemblages is also provided.

6.3 GENERIC BOI FILE (Book 2)

A separate file is created for each Force F-1 thru F-5 by listing of each TOE found in that Force and showing the quantity of each equipment found in that Force.

6.4 GENERIC TOE FILE (Book 3)

These files are identical to the above BOI file but the listings are by TOE showing the equipment in each.

6.5 FORCE/EQUIPMENT MODELS (Books 4 thru 9)

These models take the equipment from each equipment file (preceding paragraph) and combine the equipment with the force from a designated POM. This then provides the total amount of equipment required for that particular force. Active Army, National Guard and Army Reserve requirements are shown as well as the total. The models provide a basis for computing the total buy for end items as well as components and ancillary items. They also show equipment quantity by each type unit. The different formats and information that can be obtained from the Force/Equipment Models is discussed in the following paragraphs.

6.5.1 Equipment Summary By Force

This summary is provided for each of the five (5) Force Models to show the total amount of equipment in the Force during the transition period.

In addition to the total, the amount for the Active Army, National Guard and Army Reserve is shown.

6.5.2 Equipment Assemblages By Force

This list extracts the equipments that are assemblages from the master file and computes the quantities for the designated force. The amount of components for each assemblage and for the total Force is also shown.

6.5.3 Components to Assemblages By Force

Each component is shown along with the total amount in the Force. Also shown is each assemblage where the component is in each assemblage, and how many of each assemblage is in the Force.

6.5.4 End Item Associated/Ancillary Equipment List By Force

In this listing, the end item is shown and the amount of each in the Force. Listed with the end item are the associated/ancillary items that are required for operation but are not part of the end item. The amount of associated/ancillary items required for each end item is shown as well as the total required for the Force.

6.5.5 BOI File By Force

All the TOEs in a Force that contain each piece of equipment are shown. The amount of that equipment in each TOE is shown as well as the total number of units in the Force for the TOE and the total amount of equipment in the Force for each TOE and the grand total for all TOEs.

6.5.6 TOE File By Force

This file lists all the TOEs in the Force and the designated equipment in each TOE. The amount of equipment in the TOE, the total of each type TOE in the Force, and the total amount of each equipment is shown. The TOEs are listed in numerical order with the equipment listed by category order under each TOE.

6.6 POM FORCE FILE (Book 10)

This is a resident file of the yearly POM Force for the years available. A new file is added yearly as it becomes available.

6.7 EQUIPMENT ACQUISITION AND DISTRIBUTION (Books 11 and 11A)

The lists and schedules in this section are the automated means of projecting equipment acquisition and unit distribution through the transition period until the objective system is reached. They are the basis for all future planning in such major areas as budget, production and training. The numerous inputs are all brought together and processed by the AIIMS Programs to produce acquisition and unit distribution schedules based on the equipment availabilities, unit requirements and priorities, and budget constraints. The yearly budget figures are modified by the inflation indices as the acquisition projection is made into the future years.

Of particular importance is the use of these schedules for long range planning. They tell management the predicted status of all units on a yearly basis and also when a unit will be completed with objective equipment. Provisions are incorporated whereby new equipment can be added to the systems or modifications can be made to the equipment lists. The programs are then run again and the new plan is available in a very short time.

6.7.1 Equipment Acquisition Schedule

This is the master acquisition schedule which shows each equipment, the budget allocation, cost per equipment and the quantity to be purchased by year. The AAO is calculated and a prediction is made year by year until it is reached. Alternatively, a certain number of years can be run and the remaining AAO will be grouped as a single post-period buy.

6.7.2 Equipment Distribution Schedule

These schedules are formed by using the above yearly buys, BOI, AAO, and DAMPL. The yearly quantity is assigned to specific units by priority in accordance with the transition scheme. By adding other factors such as equipment production schedules, this becomes the basis for producing fielding schedules.

6.7.3 Fielding Schedules

The Fielding Schedules provide for the managers and planners the times when new equipment and trained personnel will meet in a unit. More importantly, they provide in advance the requirements for training by MOS, quan-

tity and time. By forecasting training requirements well ahead of equipment production, a more accurate allocation of resources can be made by the trainer and class inputs can be programmed more efficiently. Initial schedules are used for coordination among the Combat Developer, Materiel Developer, Logistician and Trainer to resolve any conflicts. Any necessary changes are given to AIIMS, the programs re-run, and the resulting new schedules are distributed. Descriptions of the schedules are presented in the following paragraphs.

6.7.3.1 Unit Training List

This schedule shows the type equipment, quantity, scheduled arrival time, and specific receiving unit for equipment that does not require school training but does require unit training. The input data is derived from the Annual Equipment Procurement Lists and the QQPRI. These lists are furnished to the receiving units so that advanced preparation can be made to receive the equipment and to conduct the necessary unit training.

6.7.3.2 Personnel Shortages By MOS (Section 4.2)

The amount of equipment scheduled for production and the number of personnel scheduled for training are compared to determine if there will be sufficient trained personnel to operate and maintain the equipment. If not, a shortage list will be generated. An overage of personnel is not anticipated. The inputs required to generate this list is the Annual Equipment Procurement Lists, Class Student Inputs and QQPRI. Resolution of shortages is a responsibility of management who must consider all of the alternatives available.

6.7.3.3 Personnel/Equipment Time Mismatches (Section 4.3)

Two lists are prepared in this category. One shows personnel that are scheduled to arrive in a unit past a predetermined time after the equipment has arrived. The other shows equipment due to arrive past a predetermined time after the personnel are due. These times are based on skill retention times and will be different for different equipment and skill levels. To determine when personnel will arrive in a unit, the course lengths by MOS are added to the start times and the estimated shipping time to the unit is added. The equipment arrival time is calculated by adding the logistics lead time to the production schedules. This time consists of shipping, pro-

cessing, scheduling, assembly completion at depot, intermediate storage and any other known factors. Management must analyze these lists to determine if any of the mismatches are acceptable because of circumstances and to determine which factors can be changed to bring the differences back to an acceptable time.

6.7.3.4 Personnel/Equipment Fielding Schedules (Section 4.4)

These schedules are the ones which show when trained personnel and equipment will arrive in a unit within an acceptable time of each other. The objectives of advanced planning is to eliminate the factors causing the previously discussed exceptions and to get all matches on this list. The lists will show personnel by MOS, unit and arrival time and equipment by quantity, unit and arrival time. These schedules are distributed to the managers and planners involved in the process and to the units who are receiving the personnel and equipment.

6.8 EQUIPMENT LIFE CYCLE MANAGEMENT SHEETS (Book 12)

This is a pre-formatted sheet to which all of the information in the preceding acquisition schedules is added. In addition, the planning quantities and the critical events are added from other sources. To complete the sheet, notes on equipment replaced, special procurement information, MOS requirements and the description are added. For detailed requirements of the LCM Sheets, refer to the U.S. Army Signal Center LCM Handbook supplement to Army and TRADOC regulations.

6.9 ASMI PROGRAM FILE (Book 13)

This book contains current reference material for SIMO management interfaces with all users of the SIMO outputs and for coordination on inputs.

6.10 SYSTEM REFERENCE FILE (Book 14)

This book contains reference material for use with the SIMO data bases. The material allows SIMO to extract required information from other data bases.

6.11 USER PROGRAM RUNS (Book 15)

References of formats and runs for users of the system are filed in this volume.

7.0 TRANSITION PLAN UPDATE

The INTACS Transition Plan is the blueprint by which the Systems Integration Management Office can construct its policies and procedures to fulfill its role as the coordinating office for the transition. In this respect, it is of the utmost importance that changes occurring anywhere within the Transition Functional Cycle (Figure 7-1) be recognized and the necessary adjustments made. The Transition Plan is designed so that an update in any one part will be self-updating in all other areas through normal actions. Discussed throughout the plan are specific items and events which affect the current status of planning and what must be done to incorporate them.

One of the prime driving forces in transition is the system architecture. Changes in any facet of the architecture (equipment additions and deletions, IOC's, production rates, etc.) permeates the entire plan and calls for an immediated update. By entering the appropriate corrections into the cycle, the changes will be recognized and the automated part of the plan will produce updated reference material and new schedules which will be distributed to all concerned with the transition.

Another major factor which will precipitate update requirements is budget changes. The amounts of equipment, and particularly the type that can be acquired in any year will most definitely influence deployment during transition. Interoperability and Continuity of Operations have been stressed in the plan and careful scheduling must be maintained in order to achieve these goals. Prompt action on monetary changes will again result in updated schedules when the changes are fed into the automated function of the plan.

An indispensable portion of the plan is personnel training requirements. The fielding schedules permit equipment and personnel training to be compared and the best possible combination of

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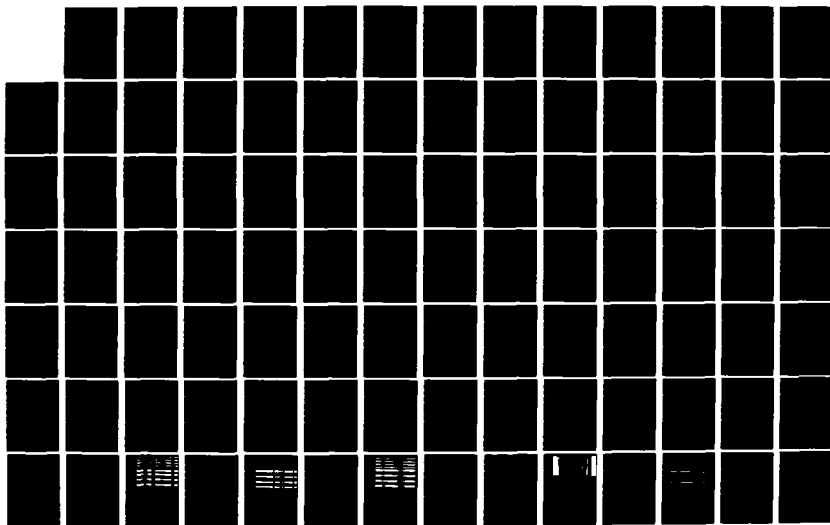
INTEGRATED TACTICAL COMMUNICATIONS SYSTEM (INTACS)
TRANSITION PLAN(U) MARTIN MARIETTA DENVER AEROSPACE CO
31 MAR 81 DAAK21-79-C-0161

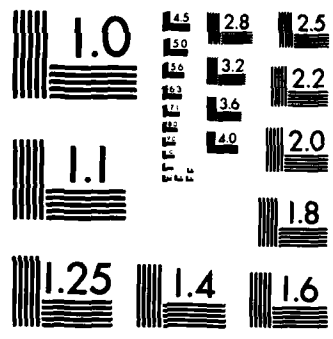
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

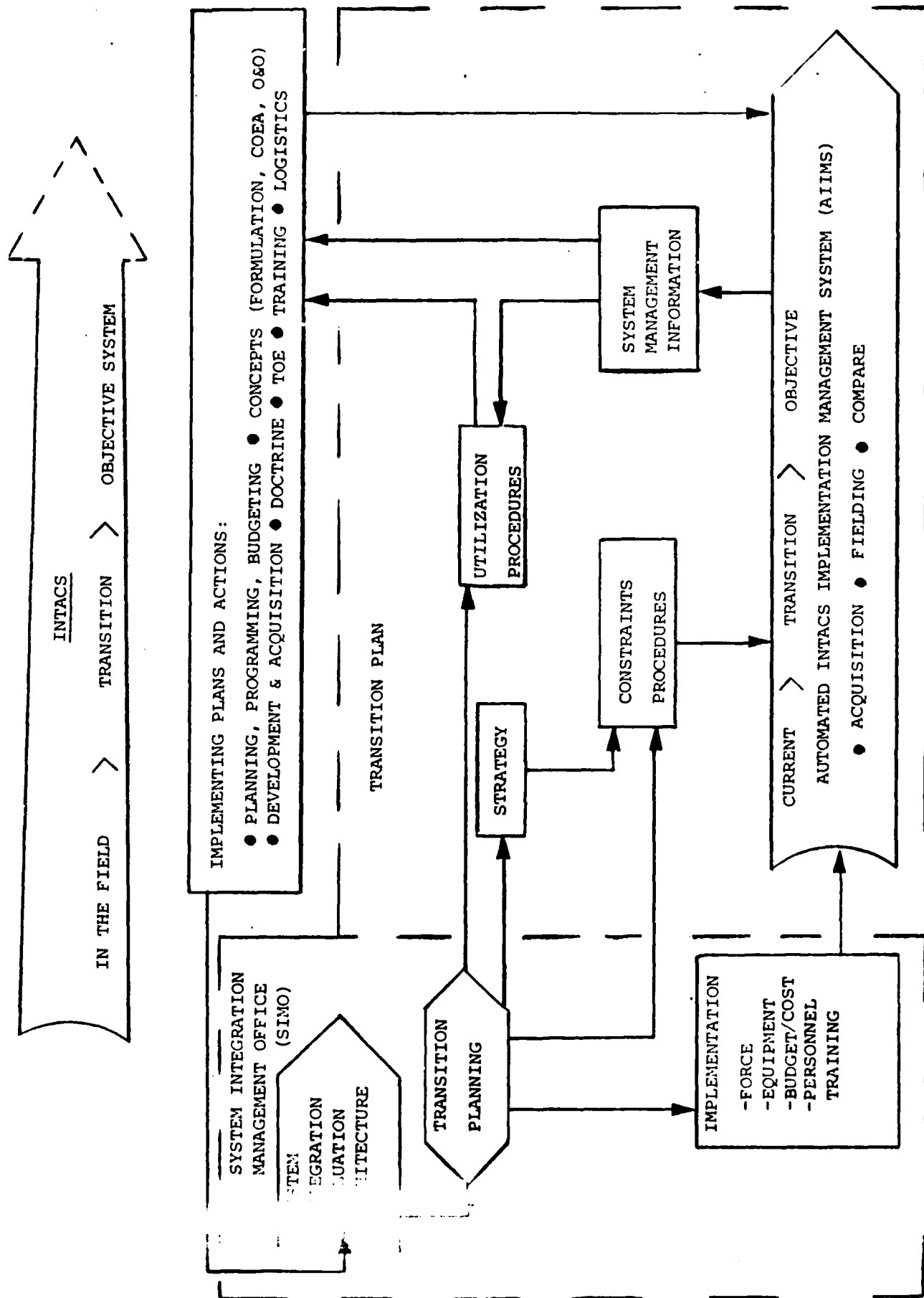


FIGURE 7-1 TRANSITION FUNCTIONAL CYCLE

schedules to be derived. In this area, the best possible forecasts are necessary because of the long lead time required to schedule personnel and to set up training plans and classrooms. Equipment planning and scheduling must be kept current so that the personnel requirements can be determined as early as possible.

APPENDIX A

CURRENT TRANSITION PLANS

1.0 TACOMAP (Tactical Communications System Master Plan)

Development, procurement, production and issue for field use of communications equipment must be accomplished in an orderly, progressive, and efficient manner. The key to such efficiency is coordinated transition planning which must be accomplished in order to merge budget, state-of-the-art capability, manpower, and sufficient training resources into an adequate package.

The Tactical Communications System Master Plan (TACOMAP) was the vehicle by which adequate planning of resources were time-phased to yield the desired end-product. Original intent was to provide coherent direction and overall management with objectives to attain and maintain, to identify voids, to correlate and maintain in one plan the man, money and materiel requirements and programs. Overall objective was to facilitate the orderly transition from analog to fully secure automated digital communications. TACOMAP was to be revised annually with the July 1976 revision to reflect the results of the INTACS Study.

The TACOMAP outlines a systematic transition from the present to the future systems. Organizational structure, operational concepts, user priorities, and TRITAC were considered to assure that the Army in the field is furnished and integrated and viable tactical communications system capable of satisfying user requirements. In April 1971 TACOMAP was incorporated into AR 105-1, C-E Telecommunications Management.

The TACOMAP consists of two separate volumes and an annex. Volume I, General, Classified CONFIDENTIAL addresses the major influencing factors on the design of tactical communications systems. Current capabilities and future concepts are discussed. The INTACS Architecture documents equate to an up-to-date version of Volume I of TACOMAP, and will serve as a base for future update of tactical communications within the Army. Volume II of TACOMAP, Programs, Classified CONFIDENTIAL presents graphic displays and narration of equipment, personnel, and training programs to support current and future systems. Projected procurement quantities and related funds are included. Annex A, which is classified SECRET, describes the

threat to tactical communications systems. Volume II, Programs, consists of four sections as follows:

- Section I presents descriptions and schedules of C-E equipment programs to support the present and future systems. Over 50 major single and multi-channel equipments are scheduled for the 10-year period, FY76 through FY85.
- Section II outlines the personnel and training programs essential for the operation and maintenance of the present and future systems.
- Section III is a consolidation of the funding program for the same 10-year period to develop, produce, operate and maintain the system.
- Section IV provides a composite overview of systems capabilities and funding.

Near the end of the INTACS Study¹ in 1975 it was recommended and approved that an automated program (now called AIIMS) be incorporated to support TACOMAP, beginning in FY79. The equipment program acquisition schedules (with BOI and cost information) generated by AIIMS were to be a direct input to TACOMAP Volume II, Section I and used by all agencies involved in the planning, programming, budgeting and implementation of tactical communications. Figure A-1 is the TACOMAP format for the equipment program acquisition schedules and Figure A-2 is the corresponding AIIMS format. The TACOMAP format for funding as used in Volume II, Section III is shown in Figure A-3 (Note that the time axis and the quantity axis are reversed from the TACOMAP format, and there is no BOI information). Equipment program acquisition schedules (Figure A-2) are summed to provide data in the funding format (Figure A-3)

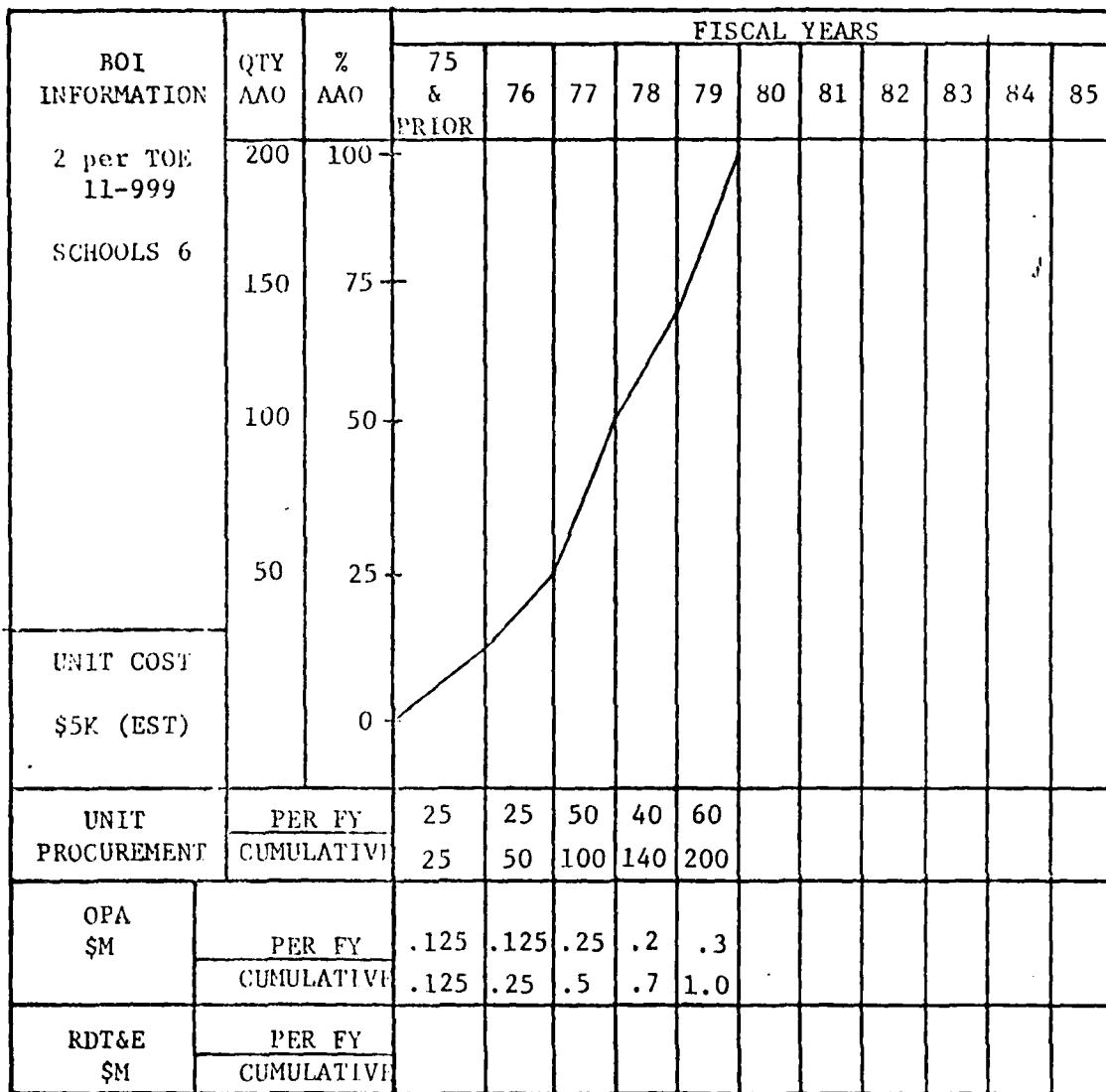
AIIMS also was intended to provide several system overviews similar to the composite overviews contained in Volume II, Section IV of TACOMAP. An example of an intended system overview is Figure A-4. Hardware cost vs. budget expenditures are shown for the phasing of new equipments into the force units indicated at the middle of the figure.

¹INTACS TASK VII, Final Report, December 1975

FIGURE A- 1

Sample TACOMAP Format

AN/SSS WIDGET
TACTICAL COMMUNICATIONS EQUIPMENT
PROGRAM SCHEDULE



▼ MILESTONE

↑ DECISION POINT

NOTES

U. S. ARMY INTACS OBJECTIVE SYSTEM

KEY NOMEN

TOTALS:

EQUIP

\$K-GPA

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402090

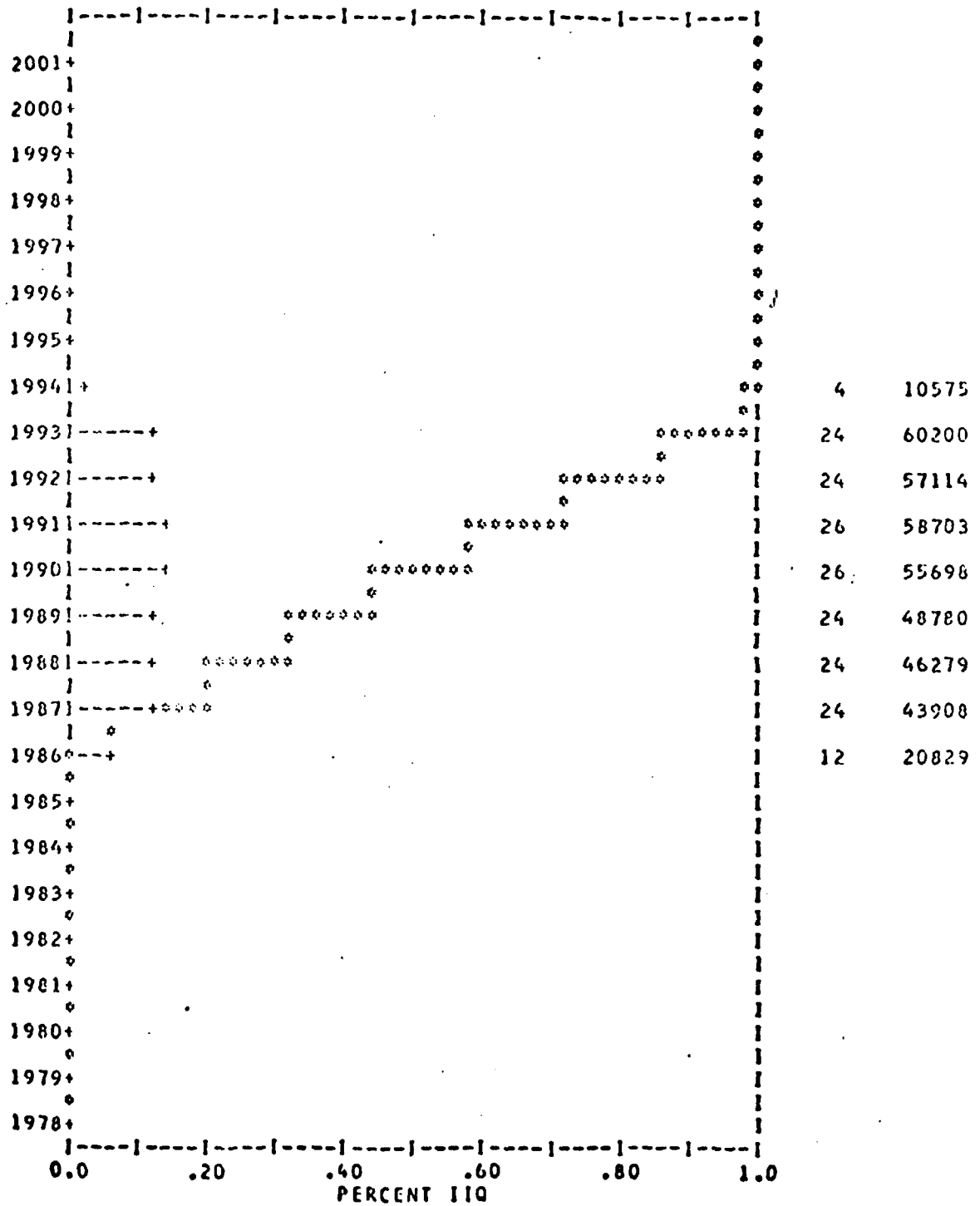


FIGURE A-2 EXAMPLE OF PROCUREMENT SCHEDULE FOR EACH EQUIPMENT

FIGURE A-3 TACOMAP FORMAT-FUNDING
MULTICHANNEL COMMUNICATIONS SUBSYSTEMS RDTE/OPA

ITEM	EST UNIT COST	FISCAL YEARS											TOTAL
		75 and prior	76	77	78	79	80	81	82	83	84	85	
TRANSMISSION: EQUIPMENT (AN/SSS-) • • • • •													
SUB-TOTAL													
SWITCHING: EQUIPMENT (AN/POQ-) • • • • • • •													
SUB-TOTAL													
TOTAL TACOMAP													
TOTAL FYDP													
NOTES													

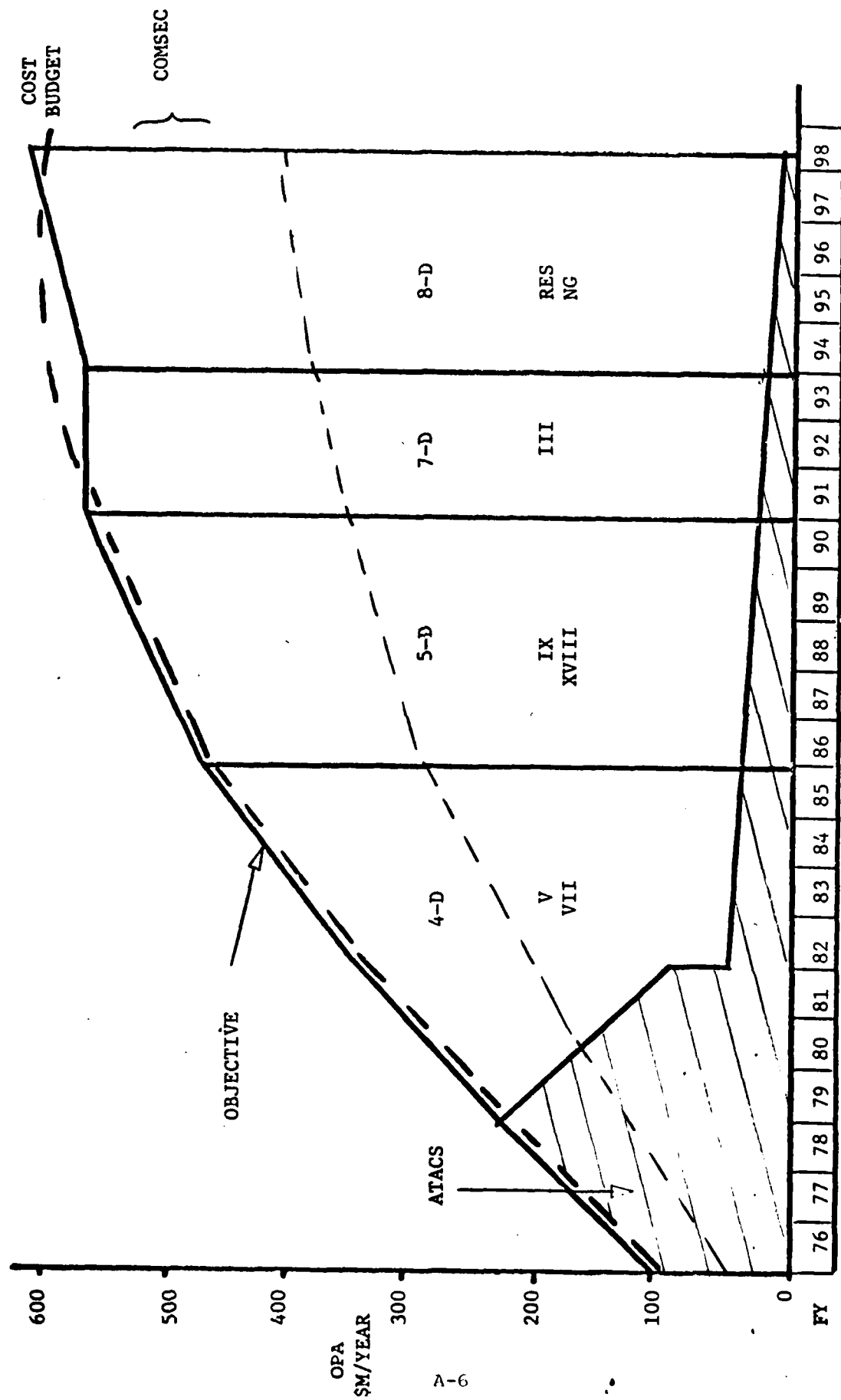


Figure A-4 Implementation Schedule

The figure says that all forces will be implemented with Objective equipments by early FY 1998.

As follow-up on the INTACS recommendation, AIIMS has been under development since 1976 and TRADOC was tasked to update TACOMAP. However, no funding was ever allocated. In November 1979, Department of the Army declared that they do not plan to revise or update TACOMAP, which has remained unchanged since the 1975 edition. Nevertheless, TACOMAP will serve as a guide for developing the INTACS transition plan, and the System Integration and Management Office supported by automated programs (the original AIIMS w/Major Changes, Modification, Expansion) will provide the necessary outputs.

2.0 CURRENT TRANSITION PLANNING

2.1 GENERAL

Other than TACOMAP, the Army does not have a specific written and updated plan. However, currently the System Integration Office in USASC is preparing the essential implementation planning outputs in a time-consuming manual fashion. Keeping track of transition planning is extremely difficult as dates and other factors continually change. The SIMO automated programs, which includes AIIMS, can keep track but will not be totally effective until its data bases are accurate and all affected parties use it to its fullest extent. The management plan and the implementation guidelines will provide the procedures for intra- and inter-command coordination necessary to fully implement SIMO operations.

Transition planning must be flexible so as to adjust to unforeseen changes in equipment. One of the most frequent source of changes is the Product Improvement Program (PIP). The Program is intended to:

- Provide new or improved tactical or operational capabilities or enable utilization in a new role.
- Improve mission availability (operational readiness).
- Make significant compatibility changes in the design or permit use of the item with newer equipment with which it will be operated.
- Provide an alternative technical approach to development of replacement materiel.

- Significantly reduce overall production costs and/or logistic support requirements.
- Provide a means of exploiting new technology - even during development of a new item.
- Provide a cost effective means of meeting urgent mission requirements.

2.2 TRI-TAC TRANSITION WORKSHEET

One of the two most current transition planning documents is the TRI-TAC Transition worksheet (Figure A - 5). It is initiated periodically by TRI-TAC and sent to the US Army Signal Center for completion. By using SIMO automated programs outputs, USASC completes the form by entering the number of major items and components to be budgeted for each fiscal year. As indicated, it provides the using agencies with budget information on all TRI-TAC equipment, by component, starting with FY-80. When completed, most of the worksheets will be classified CONFIDENTIAL, since they will include COMSEC requirements.

2.3 RDAC Worksheet

The other current transition planning document is the RDAC Worksheet which is prepared by the Research, Development and Acquisition Committee (RDAC) and reviewed and updated by the US Army Signal Center. These worksheets become the basis for extremely detailed planning actions of the Army as described in the outdated TACOMAP. The contents of the worksheet includes, but is not limited to the following:

- Equipment/component procurement by FY, by POM Force.
- Unit Cost.
- Basis of Issue.
- Basis for Buy.
- Item Description.
- What it replaces.
- Total Assets by Category (preferred; substitute; unserviceable; overage).

NOTE: The RDAC Worksheet is not shown herein because of classification restrictions and the fact that it is extremely detailed and would be impractical to reproduce.

- Significantly reduce overall production costs and/or logistic support requirements.
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FIGURE A - 5SAMPLE TRI-TAC TRANSITION WORKSHEET

ACTION OFFICER: GOOD
AUTOVON NUMBER: 992-9999
OFFICE SYMBOL: TT-ROA

AN/SSS-999 WIDGET

A-1 ()

APPENDIX B

AIIMS MASTER PROGRAM LIST

<u>NAME</u>	<u>CLASS.</u>	<u>STATUS</u>	<u>DESCRIPTION</u>
AIIMSP0001 (Condense Force create)	Conf.	O	Abstracts required information from Master Force Files.
AIIMSP0002		OPEN	
AIIMSP0003 (Equip Acq)	Conf.	O	Updates equipment acquisition by calculating cumulative buy and AAO from BOI.
AIIMSP0004 (Equip Acq)	Conf.	O	Updates equipment acquisition by calculating each year's buy from last given year.
AIIMSP0005 (Equip Acq)	Conf.	O	Updates acquisition constraints.
AIIMSP0006 (Equip Acq)	Conf.	O	Prints Part I of Equipment Acquisition (Equipment Acquisition By Year With Cumulative Totals.
AIIMSP0007 (Condensed Force File)	Conf.	O	Condensed Force Master File print using POM 80-86 or Objective Files.
AIIMSP0008 (TOE/BOI File)	Conf.	O	TOE/BOI Master File print using POM 80-86 or Objective File.
AIIMSP0009		OPEN	
AIIMSP0010		OPEN	
AIIMSP0011		OPEN	
AIIMSP0012		OPEN	
AIIMSP0013		OPEN	
AIIMSP0014		OPEN	
AIIMSP0015		OPEN	
AIIMSP0016		OPEN	
AIIMSP0017 (Equip Key # Update)	Unclass.	O	Creates and updates Master Equipment List.
AIIMSP0018		OPEN	
AIIMSP0019		OPEN	
AIIMSP0020 (Equip Package Update)	Unclass.	O	Updates Equipment Package File.

<u>NAME</u>	<u>CLASS.</u>	<u>STATUS</u>	<u>DESCRIPTION</u>
AIIMSP0021 (TOE Update)	Conf.	O	Updates TOE Master File.
AIIMSP0022		OPEN	
AIIMSP0023	Conf.	O	Prints Input Budget Information
AIIMSP0024	Conf.	O	Creates Beginning AAO
AIIMSP0025 (BOIP Print)	Unclas.	O	Prints Condensed BOIP From File F-7.
AIIMSP0026		OPEN	
AIIMSP0027		OPEN	
AIIMSP0028 (BOI File)	Conf.	O	Equipment Line Number Print with SRCs That Contain That Equipment.
AIIMSP0029 (Equip File)	Unclas.	O	Equipment File by Nomenclature Abstract.
AIIMSP0030 (File Print)	Unclas.	O	Equipment Master File Print in Key Order.
AIIMSP0031		OPEN	
AIIMSP0032		OPEN	
AIIMSP0033 (Associated/ Ancillary)	Unclas.	O	End Item Associated/Ancillary Items Abstract and Sort.
AIIMSP0034		OPEN	
AIIMSP0035		OPEN	
AIIMSP0036		OPEN	
AIIMSP0037 (IOC Print)	Unclas.	O	IOC Profile Print.
AIIMSP0038		OPEN	
AIIMSP0039 (IOC Create)	Unclas.	O	IOC Profile Create.
AIIMSP0040		OPEN	
AIIMSP0041 (BOI Update)	Unclas.	O	BOI Update w/Force Model
AIIMSP0042 (Package Print)	Unclas.	O	Equipment Package File Print.

<u>NAME</u>	<u>CLASS.</u>	<u>STATUS</u>	<u>DESCRIPTION</u>
AIIMSP0043 (Generic TOE)	Unclas.	O	Generic TOE.
AIIMSP0044 (Equip Update)	Unclas.	O	Creates and Updates Force Model Master.
AIIMSP0045 (SRC Print)	Unclas.	O	Lists Equipment By Force Model And Shows SRCS.
AIIMSP0046 (TOE List)	Unclas.	O	TOE List (ASEP).
AIIMSP0047 (TOE List)	Unclas.	O	TOE List (ASEP).
AIIMSP0048 (Generic BOI)	Unclas.	O	Generic BOI by Key Number.
AIIMSP0049 (TOE Edit)	Conf.	O	Equipment Model TOE Edit
AIIMSP0050 (TOE Update)	Conf.	O	Equipment Model TOE Update
AIIMSP0051 (Assy to Equip)	Conf.	O	Force Model Assemblage to Equipment Print.
AIIMSP0052 (Assy Print)	Conf.	O	Force Model Package Abstract.
AIIMSP0053 (Comp Abs)	Conf.	O	Masters Component to Assemblage List.
AIIMSP0054 (Comp Print)	Conf.	O	Force Model Assemblage to Equipment Abstract.
AIIMSP0055		OPEN	
AIIMSP0056		OPEN	
AIIMSP0057		OPEN	
AIIMSP0058		OPEN	
AIIMSP0059 (Maint)	Unclas.	O	File 9 Backup for File 30 (Maintenance).
AIIMSP0060 (Maint)	Unclas.	O	File 4 Backup for File 31 (Maintenance).
AIIMSP0061 (Maint)	Unclas.	O	File 11 Backup for File 32 (Maintenance).
AIIMSP0062 (Maint)	Conf.	O	File 2 Backup for File 33 (Maintenance).

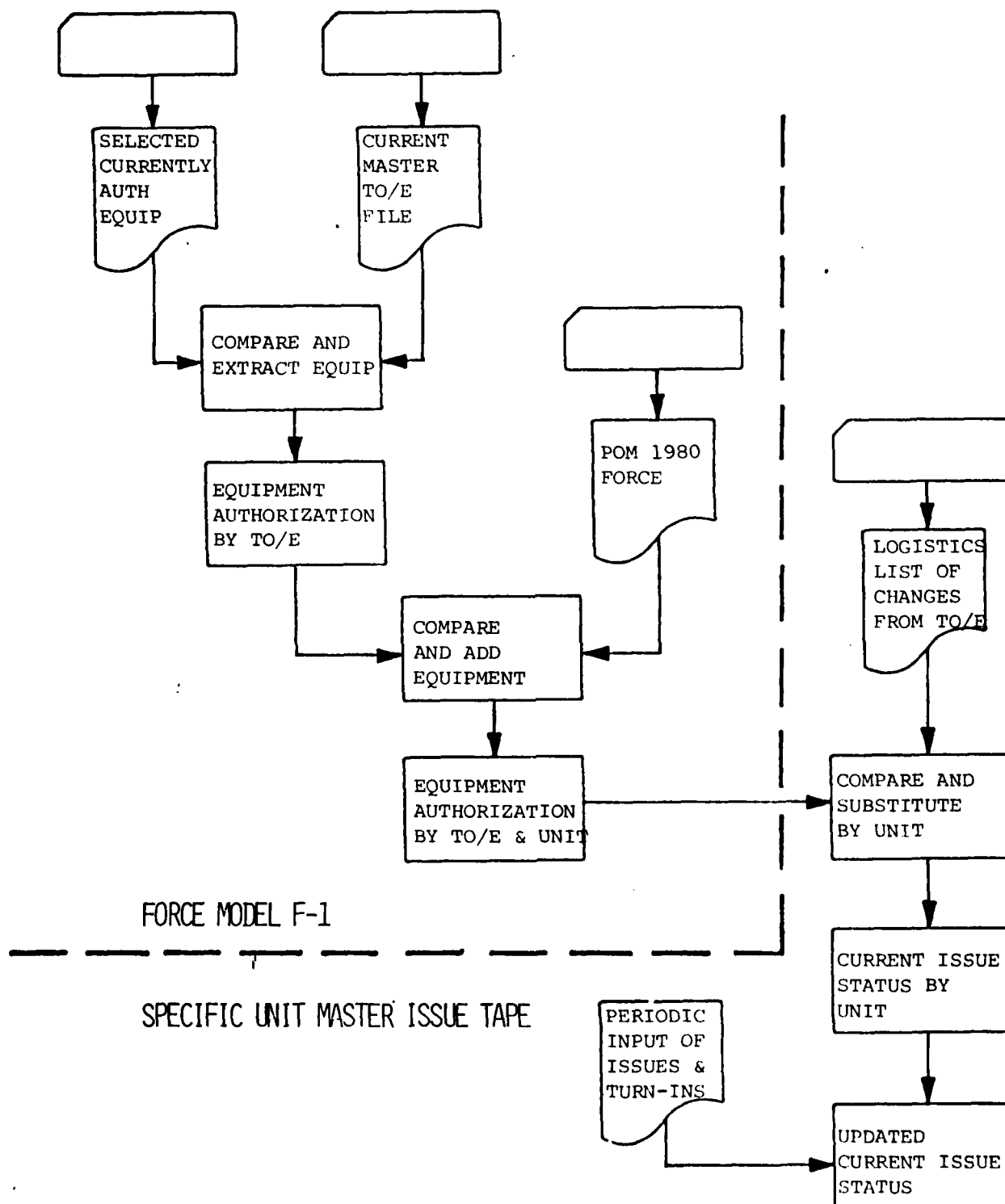
<u>NAME</u>	<u>CLASS.</u>	<u>STATUS</u>	<u>DESCRIPTION</u>
AIIMSP0063 (Maint)	Conf.	O	Rewrite of File 2 to New Format (Maintenance).
AIIMSP0064 (Maint)	Unclas.	O	Rewrite of File 4 to New Format (Maintenance).
AIIMSP0065 (Maint)	Unclas.	O	Rewrite of File 9 to New Format (Maintenance).
AIIMSP0066 (Maint)	Unclas.	O	Rewrite of File 11 to New Format (Maintenance).
AIIMSP0067		OPEN	
AIIMSP0068		OPEN	
AIIMSP0069		OPEN	
AIIMSP0070		OPEN	
AIIMSP0071		OPEN	
AIIMSP0072		OPEN	
AIIMSP0073		OPEN	
AIIMSP0074		OPEN	
AIIMSP0075 (BOI Update)	Conf.	O	Update BOI w/POM
AIIMSP0076 (BOI Update)	Unclas.	O	BOI Update.
AIIMSP0077 (Force Listings)	Unclas.	O	F-1/F-5 Equipment Listing by Category.
AIIMSP0078 (Maint)	Conf.	O	File 1 Backup (Maintenance).
AIIMSP0079 (Maint)	Conf.	O	File 1 Restore (Maintenance).
AIIMSP0080 (Ancillary Items)	Unclas.	O	End Item Associated/Ancillary Print.
AIIMSP0081 (Comp Update)	Conf.	O	File 29, Components to Assemblages, Updated with BOI.
AIIMSP0082		OPEN	
AIIMSP0083		OPEN	

<u>NAME</u>	<u>CLASS.</u>	<u>STATUS</u>	<u>DESCRIPTION</u>
AIIMSP0084 (Assy Sum)	Unclas.	O	Assemblage Component Summary Creation.
AIIMSP0085 (BOI Update)	Conf.	O	Adds BOI When no TOE Record is Available.
AIIMSP0086 (Force)	Unclas.	O	Create Force Model by Key Select.
AIIMSP0087 (TOE File)	Conf.	O	Create 80 TOE File.
AIIMSP0088 (Force)	Unclas.	O	Force Model Key Abstract.
AIIMSP0089 (Force)	Unclas.	O	Force Model Summary Abstract.
AIIMSP0090 (BOIP Edit)	Unclas.	O	Edits BOIP Records.
AIIMSP0091 (TOE Update)	Conf.	O	TOE Update.
AIIMSP0092 (Category Abs)	Unclas.	O	Equipment Category Abstract.
AIIMSP0093 (Assy/Force)	Conf.	O	Assemblage By Force Category Print.
AIIMSP0094 (Comp Abs)	Conf.	O	Components to Assemblage Abstract.
AIIMSP0095 (Comp Print)	Conf.	O	Components to Assemblage Print.
AIIMSP0096 (F-3 BOI)	Conf.	O	Creates F-3 BOI.
AIIMSP0097 (Assy Sum)	Conf.	O	Assemblage Summary by Force.
AIIMSP0098 (BOIP)	Unclas.	O	Reads BOI Tape for Selected Items.
AIIMSP0099		OPEN	
AIIMSP0100		OPEN	
AIIMSP0101 (Force Match)	Unclas.	O	Equipment List Showing Force Model Location and BOI Status by Force Model.
AIIMSP0102 (Comp/Assy)	Conf.	O	Updates Force Model Assemblages to Equipment.

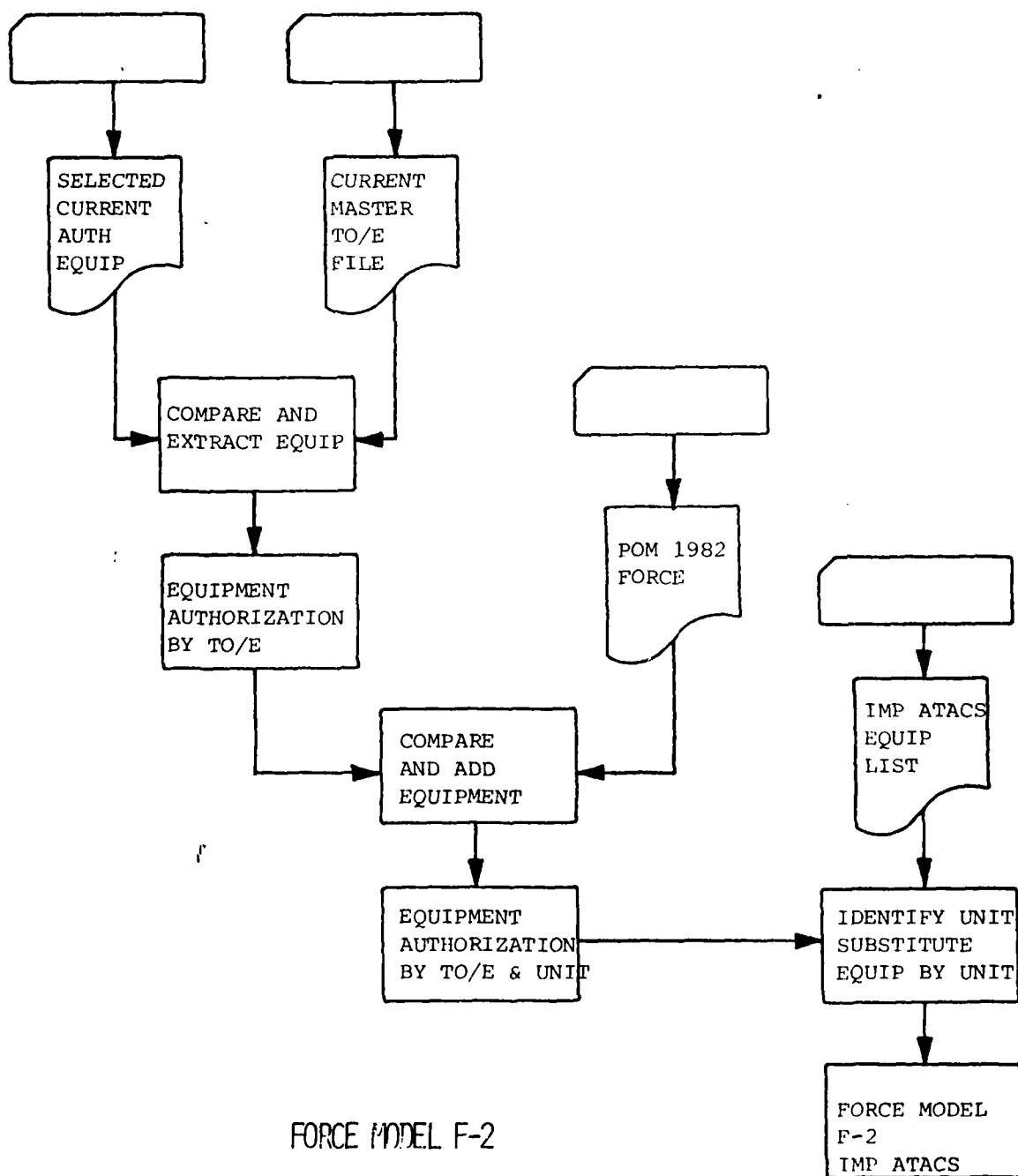
<u>NAME</u>	<u>CLASS.</u>	<u>STATUS</u>	<u>DESCRIPTION</u>
AIIMSP0103		OPEN	
AIIMSP0104		OPEN	
AIIMSP0105 (Force)	Conf.	O	Creates F-46 Force Model Abstract.
AIIMSP0106 (Annlist Abs)	Conf.	O	Annual Equipment Quantities.
AIIMSP0107 (Annlist Print)	Conf.	O	Annual Equipment Quantities (ANNLIST).
AIIMSP0108		OPEN	
AIIMSP0109		OPEN	
AIIMSP0110		OPEN	
AIIMSP0111		OPEN	
AIIMSP0112		OPEN	
AIIMSP0113		OPEN	
AIIMSP0114		OPEN	
AIIMSP0115		OPEN	
AIIMSP0116 (Maint)	Conf.	O	Creates Backup File for File 10.
AIIMSP0117 (Maint)	Conf.	O	Restores File 10.
AIIMSP0118 (Equip Acq)	Conf.	O	Equipment Acquisition Summary.
AIIMSP0119		OPEN	
AIIMSP0120 (Acq Update)	Conf.	O	Updates File 6 (Equipment Quantities) with Equipment Quantities from File 10 (RDAC).
AIIMSP0121 (Acq Sort)	Conf.	O	Abstract and Sort from File 6 (Equipment Quanti- ties).
AIIMSP0122 (Force Abs)	Conf.	O	Abstract from BOI Condensed Force.
AIIMSP0123 (Equip Assgn)	Conf.	O	Equipment Assignment to Units.

<u>NAME</u>	<u>CLASS.</u>	<u>STATUS</u>	<u>DESCRIPTION</u>
AIIMSP0124 (Maint)	Conf.	O	File 26 Backup (Maintenance)
AIIMSP0125 (Maint)	Conf.	O	File 26 Restore (Maintenance).
AIIMSP0126 (Maint)	Conf.	O	File 29 Backup (Maintenance).
AIIMSP0127 (Maint)	Conf.	O	File 29 Restore (Maintenance).
AIIMSP0128 (Maint)	Conf.	O	File 8 Backup (Maintenance).
AIIMSP0129 (Maint)	Conf.	O	File 8 Restore (Maintenance).
AIIMSP0130 (TOE Create)	Unclas.	O	Creates TOE from BOI

APPENDIX C. FLOW CHARTS FOR FORCE MODELS F-1 THRU F-5

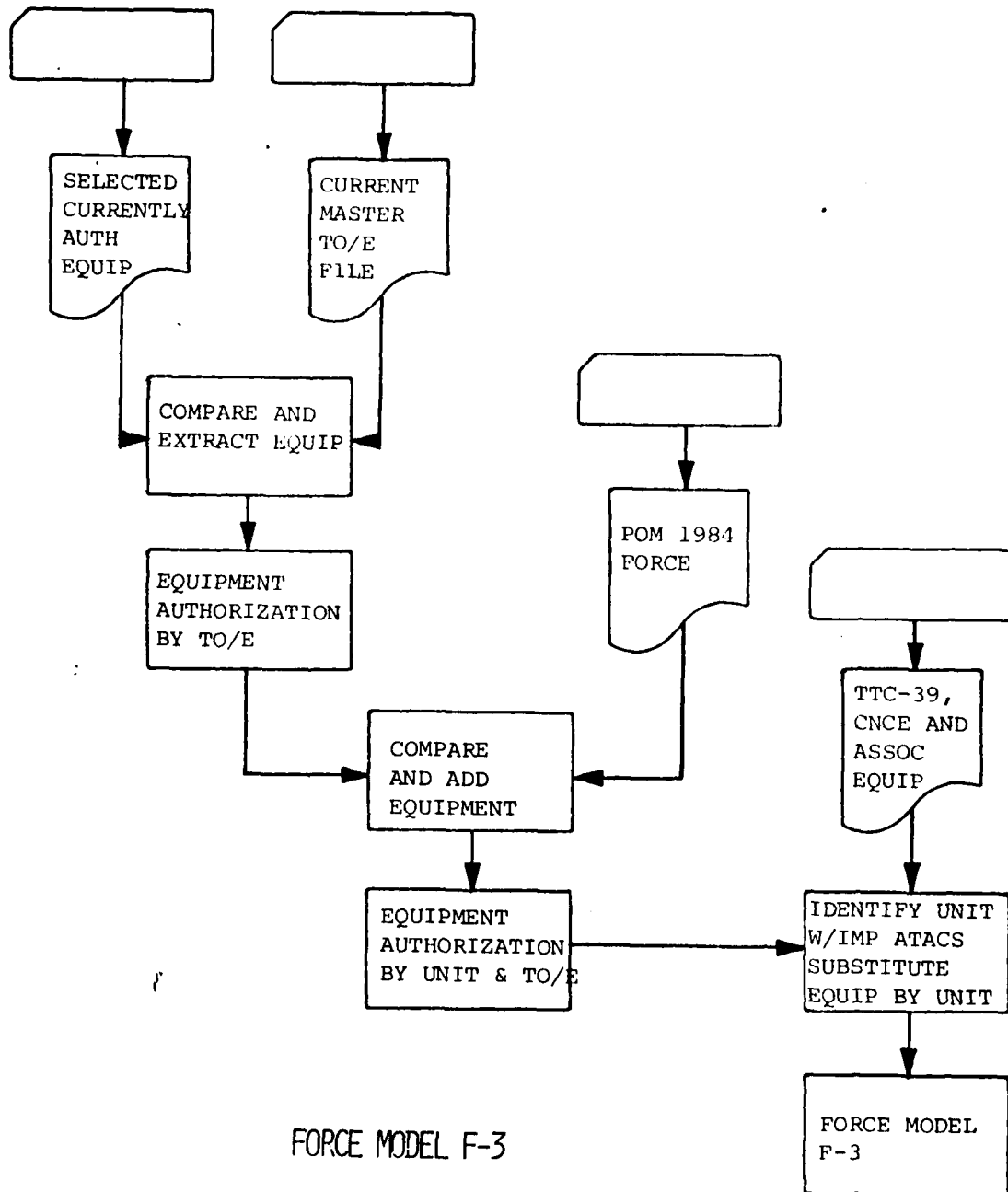


FLOW CHARTS FOR FORCE MODELS F-1 THRU F-5 (CONT'D)

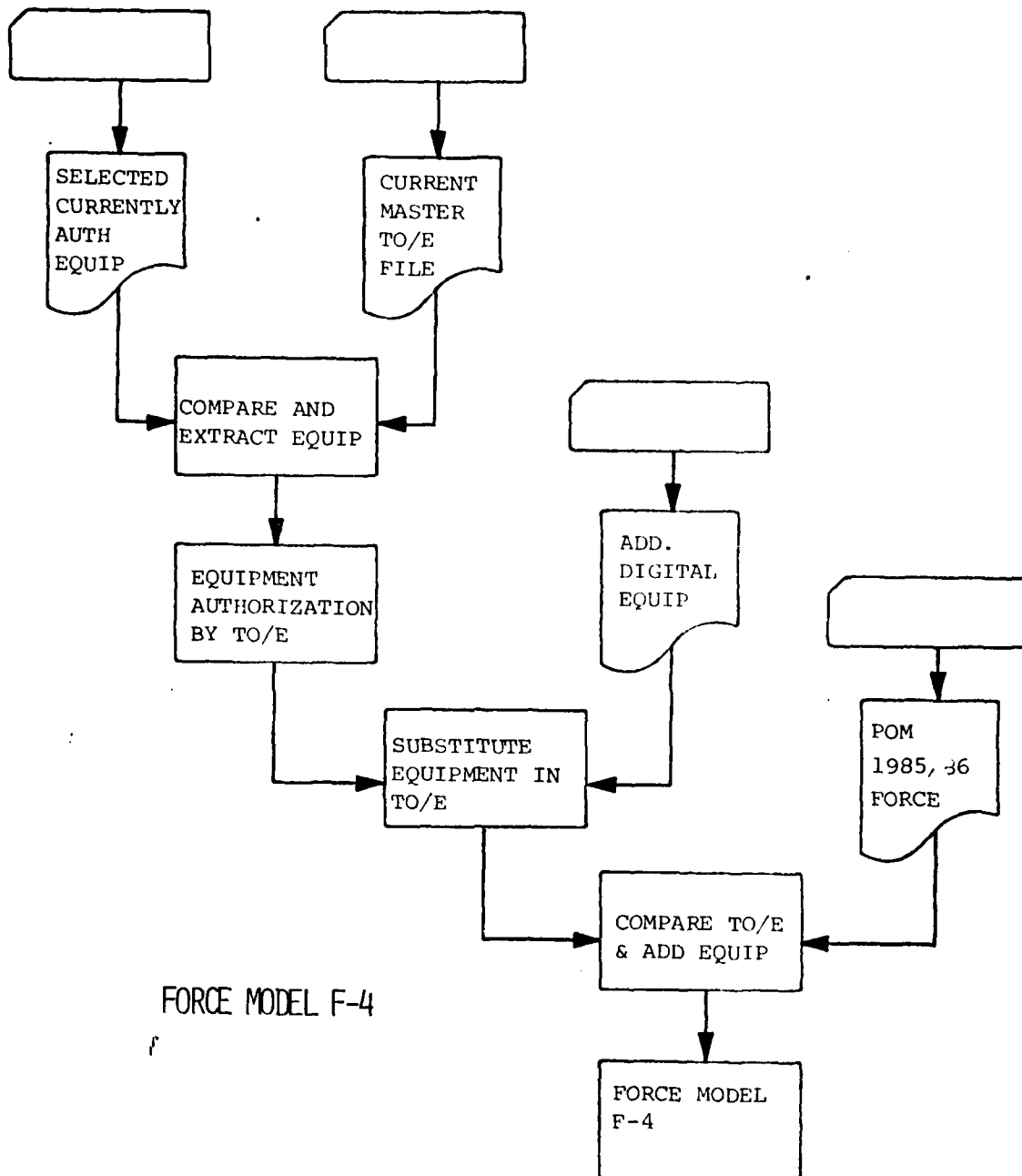


FORCE MODEL F-2

FLOW CHARTS FOR FORCE MODELS F-1 THRU F-5 (CONT'D)

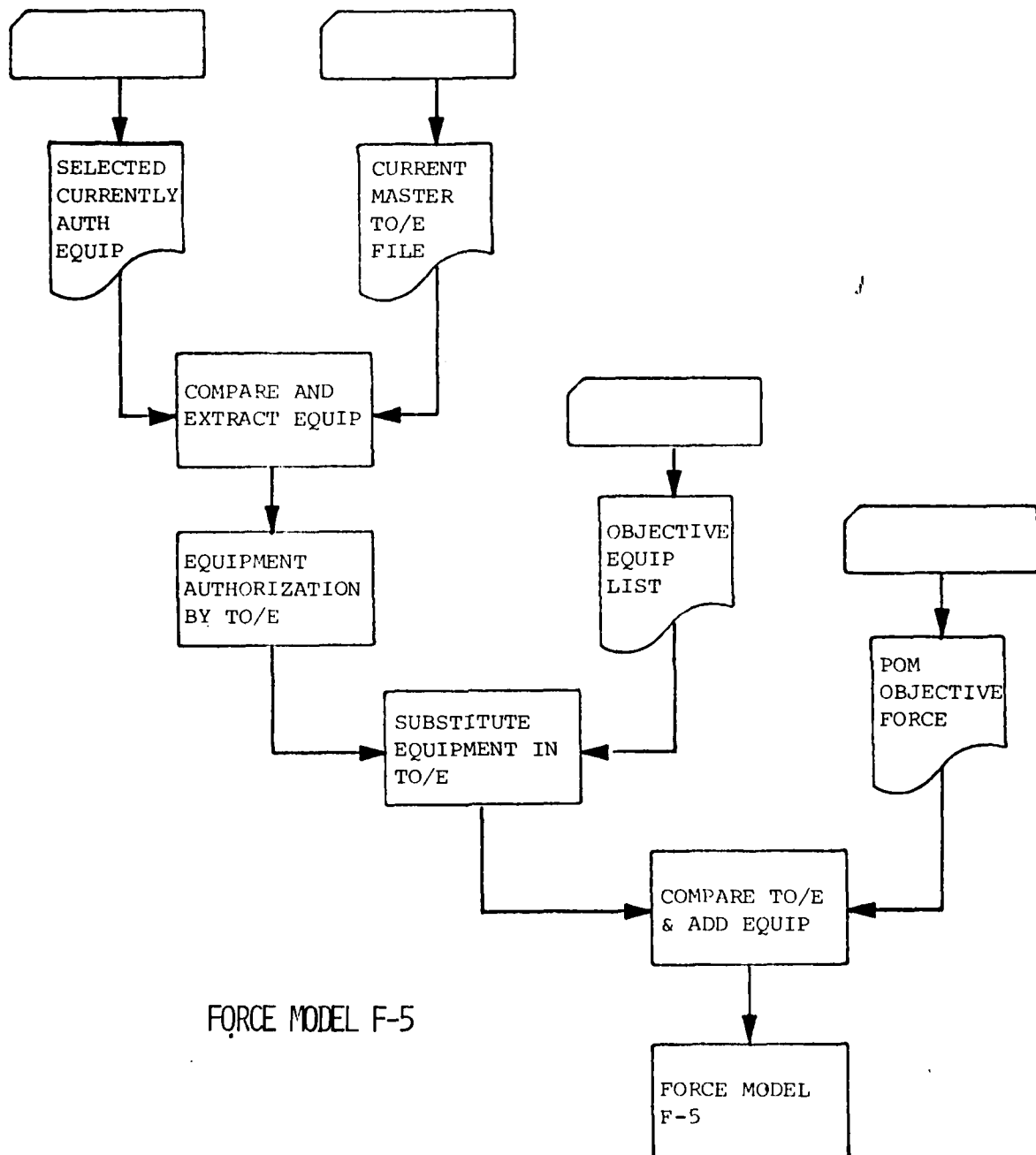


FLOW CHARTS FOR FORCE MODELS F-1 THRU F-2 (CONT'D)



FORCE MODEL F-4

FLOW CHARTS FOR FORCE MODELS F-1 THRU F-2 (CONT'D)



FORCE MODEL F-5

APPENDIX D

EQUIPMENT LISTS F-1 THRU F-5

EQUIPMENT LIST F-1 IS A LISTING OF THE INTACS CURRENT EQUIPMENT WHICH IS DERIVED FROM THE MASTER EQUIPMENT FILE.

THE FOLLOWING INFORMATION IS FURNISHED:

- 1. KEY # - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
- 2. NOMENCLATURE, ACRONYM, DESCRIPTION - EQUIPMENT IDENTIFICATION.
- 3. BUFP # - BASIS OF ISSUE PLAN FOR FUTURE EQUIPMENT.
- 4. LINE # - LINE-ALPHABETIC LINE ITEM NUMBER IDENTIFICATION OF A GENERIC NOMENCLATURE.
- 5. SSN - STANDARD STUDY NUMBER - FUNDING NUMBER ASSIGNED TO APPROVED PROCUREMENT ITEMS.
- 6. ACN - ACTION CONTROL NUMBER ASSIGNED TO TRACK ALL ACTIONS PERTAINING TO A PROGRAM.
- 7. FUND YR - INITIAL FUNDING YEAR.
- 8. IUC - INITIAL OPERATIONAL CAPABILITY - TIME WHEN EQUIPMENT AND TRAINED PERSONNEL CAN BE DEPLOYED.
- 9. LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (00 MAR 301981 00).
- 10. THIS REPORT IS AVAILABLE ONLY BY EQUIPMENT CATEGORY, BUT MAY BE SORTED BY ANY COLUMN WITHIN CATEGORY.
- 11. QUESTIONS SHOULD BE ADDRESSED TO JSASC-SING AUTJGVN 730-3182/3671.

DATE 03/04/81

EQUIPMENT FILE FORCE 430EL: F1
BY KEY NUMBER

41MS00077

PAGE 2

KEY # NOMENCLATURE ACRONYM DESCRIPTION

BUFP # LINE # FUND

DATE 03/04/73

EQUIPMENT FILE FORCE MODEL: F1
BY KEY NUMBER

A11MSP0077

PAGE 2

KEY #	NOMENCLATURE	ACRONYM	DESCRIPTION	BDIP #	LIVE #	SSN	ACN	YR	IOC	REMARKS
-------	--------------	---------	-------------	--------	--------	-----	-----	----	-----	---------

**** MULTICHANNEL TRANSMISSION

AA0020	TSC-85		TACSAT W/C TERMINAL (SHF)	729508	552242	881250	22752	77	379	
AA0166	TRC-113		RADIO REPEATER SET		R79062		35323		N/A	
AA0212	GKC-53		RADIO SET/MC FM/PCM				00000	00	N/A	
AA0243	GRC-154(V1)		RADIO SET (DDM)				00000	00	N/A	
AA0301	TRC-115		RADIO TERMINAL SET		Q92894	852800	00000	75	N/A	
AA0302	TRC-138		RADIO REPEATER SET		R78048	844600	35325	75	N/A	
AA0303	TRC-112		RADIO TERMINAL SET		Q92848		00000	75	N/A	
AA0304	TRC-121		RADIO TERMINAL SET		Q92858		00000	75	N/A	
AA0305	TRC-132A		RADIO TERMINAL SET		Q92877		00000	75	N/A	
AA0392	TRC-110		RADIO REPEATER SET		Q92871		00000	75	N/A	
AA0390	TRC-117		RADIO TERMINAL SET		Q92854		00000	75	N/A	
AA0454	MRC-127		RADIO TERM SET (ADN DIV)		Q92197		00000	75	N/A	

**** MULTIPLEX

AA0377	TCC-65		TERMINAL TELEPHONE		V28144		00000	75	N/A	
AA0378	TCC-72		TERMINAL TELEPHONE		V59327		00000	75	N/A	
AA0310	TCC-73(V2)		TERMINAL TELEPHONE		V31452		35329	75	N/A	
AA0325	TCC-60		TERMINAL TELEPHONE		V31417		00000	75	N/A	
AA0352	TD-2068/6		PULSE FORM RESTORER		Q08721		35334	75	278	
AA0372	CV-1919		SIGNAL CONVERTER		Q25978		20367	75	172	
AA0409	TCC-61		TERMINAL TELEPHONE		V31419				N/A	
AA0410	TCC-69		TERMINAL TELEPHONE		V58850				N/A	
AA0411	TU-202		MULTIPLEXER SET		M84579				N/A	
AA0412	TU-206		MULTIPLEXER SET		M84583				N/A	
AA0512	CV-1548		TP SIGNAL CONVERTER		F06475	834700			N/A	
AA0513	TD-660		MULTIPLEXER SET		M84608	837400			N/A	
AA0514	TD-754		MULTIPLEXER SET		Z45601				N/A	

**** TACTICAL COMMUNICATIONS CONTROL FACILITIES

AA0323	MSC-25		OPERATIONS CENTER COM		N19977		35327	75	481	
AA0324	MSC-31		OPERATIONS CEN COM		N20115		00000	75	N/A	
AA0325	MSC-32		OPERATIONS CENTRAL		N20663		35327	75	N/A	
AA0331	TSC-75		COM PATCHING CENTER		Q77896		00000	75	N/A	
AA0332	SB-575		COM PATCHING PANEL		N59896		00000	75	N/A	
AA0333	SB-511		COM PATCHING PANEL		N59634		00000	75	N/A	

**** SWITCHING

AA0043	SB-22		SW90 TELEPHONE MANUAL		U81707		23470	75	281	
AA0313	SB-993		SWITCHBOARD MANUAL				00000	75	N/A	
AA0311	HTC-11A		CENTRAL OFFICE TELEPHONE		Q78307		00000	75	N/A	
AA0312	HTC-23		CENTRAL OFFICE TELEPHONE		Q79476		00000	75	N/A	
AA0313	TTC-29		CENTRAL OFFICE TELEPHONE		Q79491		00000	75	N/A	
AA0314	TTC-35(V1)		CENTRAL OFFICE TELEPHONE		Q79487		00000	75	N/A	
AA0315	TTC-35(V2)		CENTRAL OFFICE TELEPHONE		Q79488		00000	75	N/A	

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KEY # NOMENCLATURE ACRONYM DESCRIPTION BUFP # LINE # SSN ACN YR IDC REMARKS

*** SWITCHING

AA0318 SB-46 SWITCHBOARD TP MANUAL 082255 0000 75 N/A
AA0354 MT-7 CENTRAL OFFICE TELEPHONE 079318 0000 75 N/A
AA0413 TTC-25(111) CENTRAL OFFICE TELEPHONE 078702 N/A
AA0416 TTC-25(112) CENTRAL OFFICE TELEPHONE 078504 N/A
AA0419 SB-3032 SWBD TP MANUAL (CORDLESS) 082597 N/A

*** TERMINALS

AA0092 TA-312 TELEPHONE SET 031211 063606 23670 75 N/A
AA0093 TA-977 TONE SIGNAL ADAPTER/SB-22 770066 031211 063606 23670 75 N/A
AA0095 TA-1 TELEPHONE SET 030252 0000 75 N/A
AA0097 TA-287 REPEATER TELEPHONE 030360 0000 75 N/A
AA0339 TA-256 TELEPHONE SET 030737 0000 75 N/A
AA0340 TA-341 TELEPHONE SET 031243 0000 75 N/A
AA0357 TA-235 TELEPHONE SET 030653 0000 75 N/A

*** RECORD-TRAFFIC

AA0355 UGC-75(111) TELETYPEWRITER 760091 036146 875000 23970 77 181
AA0356 GXC-7A TACTICAL ANALOG FACSIMILE 035204 22741 78 481
AA0357 GSC-80 MESSAGE CENTER 078271 0000 75 N/A
AA0358 GSC-19 TTY OPERATIONS CENTRAL 039228 0000 75 N/A
AA0359 TGC-30 CENTRAL OFFICE TTY 080116 0000 75 N/A
AA0360 TSC-53 TERMINAL TELEGRAPH 057504 0000 75 N/A
AA0361 GGC-3 TELETYPEWRITER SET 041968 0000 75 N/A
AA0362 GXC-5 FACSIMILE SET 026954 0000 75 N/A
AA0363 GGC-1 TELETYPEWRITER SET 042105 0000 75 N/A
AA0364 TSC-1 FACSIMILE SET 031136 0000 75 N/A
AA0365 GSC-10 DSTE-LQ 028668 0000 75 N/A
AA0366 GGC-21 DSTE-HI 028668 0000 75 N/A
AA0367 GGC-25 TELETYPEWRITER SET 039721 0000 75 N/A
AA0368 GGC-22 TELETYPEWRITER TERMINAL 044023 0000 75 N/A
AA0369 GGC-23 TELETYPEWRITER RELAY 039509 0000 75 N/A
AA0370 GGC-32 TTY OPERATIONS CENTRAL 039253 0000 75 N/A
AA0421 MSC-23 TERMINAL TELEGRAPH 057161 0000 75 N/A
AA0444 GGC-17 CENTRAL OFFICE TTY 049866 0000 00 N/A
AA0456 TT-4 TELETYPEWRITER N/A
AA0457 TT-36 TELETYPEWRITER N/A
AA0522 TH-22 TELEGRAPH TERMINAL 057729 071900 N/A
AA0523 TCC-23 TELEGRAPH-TELEPHONE TERM 057729 072000 N/A

*** SINGLE CHANNEL RADIO

AA0188 PRC-70 RADIO SET AM/FM HANDPACK 690473 038349 805100 05137 77 481
AA0227 PRC-67 RADIO SET HF/SSB PORTABLE 038119 0000 00 N/A
AA0208 WRC-24 RADIO SET VHF/JHF AM VEH 050421 0000 75 N/A
AA0209 TRC-68 RADIO SET VHF/JHF AM FXD 041407 0000 00 N/A
AA0306 TSC-23 COMMUNICATIONS CENTRAL 059626 0000 75 N/A
AA0333 GRA-33 RADIO SET CONTROL GROUP 078282 006300 0000 75 N/A

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KEY # NOMENCLATURE ACRONYM DESCRIPTION BUFP # LINE # SSN ACN YR IDC REMARKS

KEY #	MOVEMENT/ATURE	ACRONYM	DESCRIPTION	QUIP #	LINE #	SSN	ACN	YR	IDC	REMARKS
***** SINGLE CHANNEL RADIO										
AA0334	VRC-49		RADIO SET		05114		00000	75	N/A	
AA0340	VRC-45		RADIO SET		053001		00000	75	N/A	
AA0359	VRC-47		RADIO SET		054176		00000	75	N/A	
AA0360	VRC-66		RADIO SET (VHF FM)		056783		00000	75	N/A	
AA0361	VRC-12		RADIO SET		045779		00000	75	N/A	
AA0362	VRC-77		RADIO SET VHF/FM MAPPACK		038299		00000	75	N/A	
AA0363	PRT-4/PRR-4		RADIO SET ISQUAD		038299		00000	75	N/A	
AA0364	ARC-114		RADIO SET	770173	025990		00000	75	N/A	
AA0365	ASC-15		ELEC COMMAND CONSOLE		216075		00000	75	N/A	
AA0367	ARC-93		RADIO SET (VHF USE LSBI)		027006		00000	75	N/A	
AA0368	GRC-106A		RADIO SET		032756		00000	75	N/A	
AA0369	PAC-74		RADIO SET (VHF MAPPACK)		038296		00000	75	N/A	
AA0370	TSC-13		RADIO SET (VHF USE LSBI)		025978		00000	75	N/A	
AA0371	ARC-102		COMMUNICATIONS CENTRAL		056989		00000	75	N/A	
AA0373	VRC-54		RADIO SET		056424		00000	75	N/A	
AA0374	PAC-41		RADIO SET (VHF SSBI)		037982		00000	75	N/A	
AA0375	PAC-90		RADIO SET (VHF AM)		038335		00000	75	N/A	
AA0376	ARC-115		RADIO SET (VHF AM)		025991		00000	75	N/A	
AA0377	ARC-116		RADIO SET (VHF AM)		025992		00000	75	N/A	
AA0381	URC-10		RADIO SET (VHF AM)		042092		00000	75	N/A	
AA0384	GRC-162		RADIO TTY SET		090120		00000	75	N/A	
AA0385	MRR-8		RADIO REC SET		090120		00000	75	N/A	
AA0386	MRT-9		RADIO TRANS SET		090120		00000	75	N/A	
AA0387	VSC-2		RADIO TTY SET		091301		00000	75	N/A	
AA0388	VSC-3		RADIO TTY SET		091302		00000	75	N/A	
AA0389	GSA-1		CONTROL RADIO SET		092915		00000	75	N/A	
AA0394	LS-147F		INTERCOM							
AA0504	M-182		HEADSET-MICROPHONE							
AA0570	M-156		HEADSET							
AA0596	ASC-314V21		ELEC COMMAND CONSOLE		E58601					
***** ANTENNAS										
AA0658	AB-2315		TOWER 100FT EXPANDABLE/MC		241715		00000	82	N/A	
AA0659	AB-364		TAC ANT MAST 100 FT		241715	SC5004	23858	82	280	
AA0679	DE-254		BB OMNI-DIR ANT/GAR/VRC	760290	241715		23018	78	379	
AA0179	AS-2731		FM-SHORTENED VEH ANT/GAR	765044	A79381		40154	76	281	
AA0180	AB-903		RADIO ERECT 30FT MAST SYS		W14381		22624	77	270	
AA0179	DE-314		DIR VHF LP ANTENNA/GARS	770026	222932		46343	78	483	
AA0204	AT-903		CENTERED LP ANT/VARC-24				00000	00	N/A	
AA0210	GKA-4		ANTENNA GROUP DOUBLET		A77877		00000	00	N/A	
AA0211	GKA-50		ANTENNA GROUP DOUBLET		A78151		00000	00	N/A	
AA0225	AB-521		MAST ASSEMBLY/TSC-133		22524		77	382	N/A	
AA0272	TRA-7		ANTENNA GRP/TRC-112/121	790120	241713		00000	00	N/A	
AA0273	AS-1425		ANTENNA/TRC-133				00000	00	N/A	
AA0274	AT-903		ANTENNA/TRC-50				00000	00	N/A	
AA0275	AB-577		MAST ASSEMBLY/GRC-50				00000	00	N/A	
AA0276	AS-1852		ANTENNA BAND 1/GRC-103				00000	00	N/A	
AA0277	AS-1853		ANTENNA BAND 11/GRC-103				00000	00	N/A	
AA0278	AS-1854		ANTENNA BAND 111/GRC-103				00000	00	N/A	
AA0290	AB-952		MAST ASSEMBLY/GRC-103				00000	00	N/A	

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KEY #	NUMERICALATURE	ACRONYM	DESCRIPTION	BOIP #	LINE #	SSN	ACN	YR	FUND	LOC	REMARKS
*** ANTENNAS											
AA0294	DE-303		ANTENNA DIR VHF 1/2 R-10MB				00000	00	N/A		
AA0285	AT-892		STEEL TAPE WHIP 3 FT/PRC				00000	00	N/A		
AA0286	AT-271A		MULTISECTION WHIP 10FT/PRC				00000	00	N/A		
AA0287	AT-912		VEHICULAR WHIP 10 FT/PRC				00000	00	N/A		
AA0288	AS-1729		COLLAPSIBLE WHIP 10FT/PRC				00000	00	N/A		
AA0289	AT-984		LONG WIRE ANTENNA/PRC				00000	00	N/A		
AA0290	RC-292		GRJND PLANE ANTENNA/FM				00000	00	N/A		
AA0291	AT-784		LOOP ANTENNA DE/FM				00000	00	N/A		
AA0293	AS-1998		ANTENNA/PRC-9				00000	00	N/A		
AA0294	AS-1329		ANTENNA/PRC-4				00000	00	N/A		
AA0295	AS-1320		WHIP ANTENNA/PRC-47				00000	00	N/A		
AA0296	AS-1321		LONG WIRE ANTENNA/PRC-47				00000	00	N/A		
AA0297	AS-1434		OMNI-DIR ANTENNA/PAC-41				00000	00	N/A		
AA0298	AS-1435		UNI-DIR LP ANTENNA/PRC-41				00000	00	N/A		
AA0299	AS-1837		WHIP ANTENNA/PAC-74				00000	00	N/A		
AA0300	AT-197		DISCJNE ANTENNA/TRC-69				00000	00	N/A		
AA0459	AB-864		TAC ANT MAST 100FT/PRC MTD	760290			00000	00	N/A		
AA0503	WR-805		MAST EXTENSION KIT/MC				00000	00	N/A		

*** COMSEC

AA0094	KQ1-13		TAPE READER	760014	T40405		16472	77	279		
AA0106	KY-57	WINSON	SPEECH SECURITY EQUIP	699264	501373	BC2056	16472	77	279		
AA0107	KY-57	WIA	WIRELINE ADAPTER	760013	W60351		16472	77	279		
AA0111	KY-58	WINSON	SPEECH SEC EQUIP ABN	720199	501451	BC2050	16472	77	279		
AA0114	KY-55	PARKMILL	SPEECH SECURITY EQUIP	720091	277097	BC2100	20151	77	282		
AA0115	KY-13		KEY GUN	730085	E98103				N/A		
AA0116	KY-15	MCD	NET CONTROL DEVICE	750105	N02758		16472	77	279		
AA0239	K1X-13		CODE CHANGER KEY		E45755		00000	77	N/A		
AA0344	KG-27		ELEC KEY GENERATOR	690003	L22957	T08000	00000	75	N/A		
AA0345	KL-7		CIPHER MACHINE		E24281		00000	75	N/A		
AA0346	K4-7		ELEC KEY SECURITY EQUIP		H02330		00000	75	N/A		
AA0347	KY-08	NESTOR	SPEECH SECURITY EQUIP		U01275		00000	75	N/A		
AA0348	KY-28	NESTOR	SPEECH SEC EQUIP (ABN)		U01295		00000	75	N/A		
AA0349	KY-39	NESTOR	SPEECH SECURITY EQUIP		U01305		00000	75	N/A		
AA0350	KG-30-15		ELECTRONIC KEY GENERATOR		H01178	T05500	20472	75	N/A		
AA0351	MYL-3		TACTICAL DIGITAL REGLY		V08721		00000	75	N/A		
AA0391	KG-45		KEY GEN 4164 SPEED TACT	770140	L25273		23370	75	N/A		
AA0453	KG-30-24		ELEC KEY GENERATOR		H01792				N/A		
AA0450		Z-LMD	REMOTE CNTRL UNIT KY-75		252703				N/A		
AA0461	KYK-23		CODE CHANGER KEY		E45820				N/A		
AA0560	KY-75	PARKMILL	SPEECH SECURITY EQUIP ABN	720092	277092	T52000	20151		282		
AA0572			FILL CABLE (CRYPTO)				00000	00	N/A		

*** VEHICLE

AA0437	M-715		TRUCK 1 1/4 T						N/A		
AA0438	M-211		TRUCK 2 1/2 T						N/A		
AA0439	M-35A2		TRUCK 2 1/2 T						N/A		
AA0440	M-35		TRUCK 2 1/2 T						N/A		

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KEY #	NUMERICALATURE	ACRONYM	DESCRIPTION	BOIP #	LINE #	SSN	ACN	YR	FUND	LOC	REMARKS
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BY KEY NUMBER

FUND
ACN YR LOC

REMARKS

DESCRIPTION

ACRONYM

KEY # NOMENCLATURE

SSN

LINE #

SHIP #

REMARKS

VEHICLE

AA0441	M-37	TRUCK 3/4 T	X59872	N/A
AA0445	M-275A2	TRACTOR 2 1/2 T	X59052	N/A
AA0446	M-52	TRACTOR	X59326	N/A

SHELTERS & VANS

AA0067	S-250	SHELTER	000000 00	N/A
AA0071	S-280	SHELTER	000000 00	N/A

POWER UNITS & TRAILERS

AA0422	PU-025	PWR UNIT M-101 TRL 2-3KM	J46252	N/A
AA0423	PU-031	PWR UNIT M-103 TRL 2-5KM	J46396	N/A
AA0424	PU-332A	PWR UNIT M-101 TRL 13KM	J46309	N/A
AA0425	PU-005	PWR UNIT M-100 TRL 15KM	J35692	N/A
AA0426	PU-013	PWR UNIT M-103 TRL 2-5KM	J47480	N/A
AA0427	PU-023	PWR UNIT M-101 TRL 2-3KM	J46259	N/A
AA0428	PU-029	PWR UNIT M-103 TRL 2-5KM	J46392	N/A
AA0429	PU-003	PWR UNIT M-35 TRK 45KM	J35698	N/A
AA0430	PU-007	PWR UNIT M-200 TRL 45KM	J35551	N/A
AA0431	PU-019	PWR UNIT M-103 TRL 2-10KM	J42100	N/A
AA0432	PU-050	PWR UNIT M-200 TRL 60-KM	690114 J35629	N/A
AA0433	PU-074	PWR UNIT M-105 TRL	690114	N/A
AA0434	WJ0-10	PWR ZEA M-200 2-30KM	P27819	N/A
AA0435	PU-294	PWR UNIT M-105 TRL 2-5KM	J41315	N/A
AA0436	PU-753	PWR UNIT M-200 TRL 10KM	J29554	N/A
AA0462	PU-017	PWR UNIT M-101 TRL 2-3KM	J46384	N/A
AA0463	PU-020	PWR UNIT M-116 TRL 2-5KM	J47617	N/A
AA0501		PWR SUPPLY 23 VDC	147915	N/A

WIRE AND CABLE DISTRIBUTION

AA0117	CX-11230	CABLE SPEC PUR 1/4 MILE	65108 80	183
AA0122	CX-4556	CABLE ASSY 26 PR 250 FT	00000 00	N/A
AA0123	WD-1/2L-159	CABLE TP 1 MILE	00000 75	381
AA0124	WD-1/2R-8	CABLE TP 1/4 MILE	23100 75	381
AA0125	WD-1/4X-306	CABLE TP 1/4 MILE	00000 75	381
AA0126	CX-11230	CABLE SPEC PUR 100FT	65108 75	182
AA0127	WF-16	CABLE TP 1 MILE	00000 75	N/A
AA0130	J-1077	DISTRIBUTION BOX	00000 75	N/A
AA0250	CX-4760	CABLE ASSY TP	00000 00	N/A
AA0252	CX-10734/6	CABLE ASSY ADAPTER	00000 00	N/A

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KEY #	NOMENCLATURE	ACRONYM	DESCRIPTION	BDIP #	LINE #	SSN	ACN	YK	IOC	REMARKS
MULTICHANNEL TRANSMISSION										
A0003	TSC-93		TACSAT W/C TERMINAL (SHF)	779081		534895	22752	77	479	
A0005	TRC-151		RADIO TERMINAL SET			092839	35332	77	481	
A0007	TRC-152		RADIO REPEATER SET			878067	35332	77	481	
A0009	TSC-85A		TACSAT W/C TERMINAL (SHF)				00000	00	482	
A0010	TSC-93A		TACSAT W/C TERMINAL (SHF)				00000	00	482	
A0019	TSC-95		TACSAT W/C TERMINAL				14739	37	379	
A0020	TSC-85		TACSAT W/C TERMINAL (SHF)	750252		534827	22752	77	379	
A0025	GRC-103(V4)	BAND IV	RADIO SET	729508		552242	35325	77	379	
A00196	TRC-113		RADIO REPEATER SET			254341	35325	77	N/A	
A00167	TRC-165		RADIO TERMINAL SET (PIPI)			878052	35323		N/A	
A00226	TRC-138(PIPI)		RADIO REPEATER SET			092896	00000	00	N/A	
A00244	GRC-134(V2)		RADIO SET (ADDN)				00000	00	N/A	
A00303	TRC-112		RADIO TERMINAL SET			092848	00000	75	N/A	
A00304	TRC-121		RADIO TERMINAL SET			092858	00000	75	N/A	
A00305	TRC-132A		RADIO TERMINAL SET			092877	00000	75	N/A	
A00454	MRC-327		RADIO TEAM SET (ARM OIV)			092197	00000	75	N/A	

MULTIPLEX

A00104	TD-975	ADC	DIGITAL COMBINER			495943	13707	77	N/A	
A00022	TD-982		PULSE FIRM RESTORER	730007		250545	13707	77	380	
A00027	TD-1065	HSSDB	W/S SERIAL DATA BUFFER	690492		435559	7292	77	480	
A00029	TD-1059	TDDB	TIME DIVISION DIGITAL MUX	721130		13357	77	183		
A00030	TSC-97		DATA MULTIPLEX SET	720187		220550	13357	79	N/A	
A00030	TD-1250		RADIO COMBINER MUX	790006		245110	35333		N/A	
A00073	TCC-65		TACSAT AJ/CVIL MDEM	780246		272048	22752	77	481	
A00169	TCC-73		TERMINAL TELEPHONE (PIPI)			428154			N/A	
A00173	TCC-73(V2)(PIPI)		TERMINAL TELEPHONE (PIPI)			260816	35329	80	N/A	
A00303	TCC-73(V1)(PIPI)		TERMINAL TELEPHONE (PIPI)			280816	35329	75	N/A	
A00352	TD-205876		PULSE FIRM RESTORER			408721	35334	75	275	
A00372	CV-1919		SIGNAL CONVERTER			025978	20367	75	172	
A00412	TD-204		MULTIPLEXER SET			484583			N/A	
A00442	TCC-72		TERMINAL TELEPHONE (PIPI)			458327			N/A	
A00512	CV-1548		TR SIGNAL CONVERTER			834700			N/A	
A00513	TD-660		MULTIPLEXER SET			837400			N/A	
A00514	TD-754		MULTIPLEXER SET			245601			N/A	

TACTICAL COMMUNICATIONS CONTROL FACILITIES

A00005	MSC-114		TACSAT CONTROL CENTER			534509	22752	77	479	
A00072	TSC-85A		TECHNICAL CONTROL CENTER			660197	39227	77	382	
A00074	TSC-85		TECH COV FAC			660197	39227	77	327	
A00158	MSC-32A		OPERATIONS CEN COMM (PIPI)			854600	35327	80	282	
A00324	MSC-31		OPERATIONS CEN COMM			420663	00000	75	N/A	
A00331	TSC-75		COMM PATCHING CENTER			420663	00000	75	N/A	
A00393	SB-411		COMM PATCHING PANEL			459634	00000	75	N/A	
A00443	MSC-25		OPERATIONS CEN COMM (PIPI)			419977	35327	80	282	

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REMARKS

FUND

SSN

B31P # LINE #

DESCRIPTION

ACRONYM

KEY # NOMENCLATURE

*** SWITCHING

AA0063	SB-22	SB2D TELEPHONE MANUAL	U01707	23470 75	281
AA0119	SB-993	SWITCHBOARD MANUAL		00000 75	N/A
AA0316	TTC-38 (V1)	TACTICAL AUTOMATIC SWITCH	690113	1904 75	475
AA0317	TTC-38 (V2)	TACTICAL AUTOMATIC SWITCH	690113	1904 75	475
AA0320	SB-3614 (V1)	AUTOMATIC TP SWITCHBOARD	750067	1904 75	177
AA0321	TTC-41 (V1)	AUTO TP CEN 0 (190111)	750068	1904 75	N/A
AA0322	TTC-41 (V2)	AUTO TP CEN 0 (190111)	750069	1904 75	N/A
AA0392	TTC-41 (V3)	AUTO TP OFFICE (190111)	750013	1904 75	N/A
AA0408	TA-207	SIGNAL ASSY S480	757315		N/A
AA0415	TTC-41 (V4)	AUTO TP CEN 0 (190111)	770061		N/A
AA0416	TTC-41 (V5)	AUTO TP CEN 0 (190111)	770062		281
AA0417	TTC-41 (V6)	AUTO TP CEN 0 (190111)	770063		281
AA0418	TTC-41 (V7)	AUTO TP CEN 0 (190111)	770064		281

*** TERMINALS

AA0052	C-5103	COMM CONTROL UNIT	E95072	23415 75	281
AA0093	TA-933	TELEPHONE SET	V31305		177
AA0092	TA-312	TELEPHONE SET	V31211	23470 75	N/A
AA0093	TA-977	ONE SIGNAL ADAPTER/SB-22	770066		481
AA0095	TA-1	TELEPHONE SET	V30252	00000 75	N/A
AA0097	TA-287	REPEATER TELEPHONE	R60360	00000 75	N/A
AA0339	TA-244	TELEPHONE SET	V30937	00000 75	N/A
AA0340	TA-341	TELEPHONE SET	V31243	00000 75	N/A
AA0341	TA-833	TELEPHONE SET	278668	23415 75	177
AA0357	TA-235	TELEPHONE SET	B59100	00000 75	N/A

*** RECORD-TRAFFIC

AA0056	UGC-7 (V1)	TELETYPEWRITER	760091	23870 77	181
AA0077	GAC-7A	TACTICAL DCC CIPHER	770191	24964 80	180
AA0096		TACTICAL ANALOG FALSIMILE		22741 78	481
AA0133		INTERIM MESSAGE RELAY	5C3009	43832 82	480
AA0136		OPTICAL CHAR READER		23870 80	483
AA0227	GSQ-80	MESSAGE CENTER	D78271	00000 75	N/A
AA0328	MGC-19	TTY OPERATIONS CENTRAL	V39229	00000 75	N/A
AA0329	TGC-30	CENTRAL OFFICE TTY	D6U116	00000 75	N/A
AA0330	TSC-53	TERMINAL TELEGRAPH	V57504	00000 75	N/A
AA0342		DSTE-LU	278668	00000 75	177
AA0353		DSTE-41	278668	00000 75	N/A
AA0353	FCC-25	TELETYPEWRITER SET	V08721	00000 75	N/A
AA0355	MGC-22	TELETYPEWRITER TERMINAL	V44023	00000 75	N/A
AA0356	MGC-23	TELETYPEWRITER RELAY	V39309	00000 75	N/A
AA0420	MGC-32	TTY OPERATIONS CENTRAL	V39253	00000 75	N/A
AA0421	MGC-29	TERMINAL TELEGRAPH	V57161		N/A
AA0444	MGC-17	CENTRAL OFFICE TTY	D79866		N/A
AA0532	TM-22	TELEGRAPH TERMINAL	V57729		N/A
AA0533	TCC-29	TELEGRAPH-TELEPHONE TERM	V57729	072000	N/A

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EQUIPMENT FILE FORCE MODEL: F2
BY KEY NUMBER

A11NSP0077

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FUND

SSN

B31P # LINE #

DESCRIPTION

ACRONYM

KEY # NOMENCLATURE

BY KEY NUMBER

KEY #	MOVEMENT/CLATURE	ACRONYM	DESCRIPTION	BDIP #	LINE #	SSN	ACN	YR	FUND	LOC	REMARKS
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***** ANTENNAS

AA0068	AB-2315		TOWER 100F EXPANDABLE/MC	760290	241715	SC5004	00000	82	N/A		
AA0069	AB-2316		TAC ANT FAST 100 FT	760290	241715	SC5004	23958	82	280		
AA0070	DE-254		BB JANI-DIA ANT/GAS/VAC	765044	479391		22018	78	379		
AA0179	AS-2731		FORSHURTERED VEH ANT/GAR				40154	76	281		
AA0190	AB-903		RAPID ERECT 30FT MAST SYS		414391		22624	77	270		
AA0199	DE-314		DIR WHF LP ANTENNA/GARS	770026	222932		46843	78	483		
AA0204	AT-903		CENTERED DP ANT/VAC-24				00000	00	N/A		
AA0210	GR-4		ANTENNA GROUP DOUBLET		477877		00000	00	N/A		
AA0211	GR-50		ANTENNA GROUP DOUBLET		478151		00000	00	N/A		
AA0225	AB-621		MAST ASSEMBLY/TRC-119	790120	241713		22624	77	392		
AA0232	TRA-7		ANTENNA SUB/TAC-112/121				00000	00	N/A		
AA0273	AS-1425		ANTENNA TRC-133				00000	00	N/A		
AA0276	AS-1852		ANTENNA BAND 17GAC-103				00000	00	N/A		
AA0277	AS-1853		ANTENNA BAND 11/GRC-103				00000	00	N/A		
AA0278	AS-1854		ANTENNA BAND 11/GRC-103				00000	00	N/A		
AA0279	AS-3047		ANTENNA BAND 17/GRC-103				00000	00	N/A		
AA0280	AB-752		MAST ASSEMBLY/GRC-103				00000	00	N/A		
AA0284	DE-303		ANTENNA DIA WHF 1/2 410MB				00000	00	N/A		
AA0285	AT-592		STEEL TAPESHIP 3 FT/PRC				00000	00	N/A		
AA0286	AT-271A		MULTISECTION WHIP 10F/PRC				00000	00	N/A		
AA0297	AT-712		VEHICULAR WHIP 10 FT/PRC				00000	00	N/A		
AA0298	AS-1729		COLLAPSEABLE WHIP 10F/PRC	205012			00000	00	N/A		
AA0299	AT-984		LONG WIRE ANTENNA/PRC	471712			00000	00	N/A		
AA0290	RC-292		GROUND PLANE ANTENNA/FM	472280			00000	00	N/A		
AA0291	AT-784		LOOP ANTENNA DE/FM	471438			00000	00	N/A		
AA0295	AS-1320		WHIP ANTENNA/PRC-47				00000	00	N/A		
AA0296	AS-1321		LONG WIRE ANTENNA/PRC-47				00000	00	N/A		
AA0297	AS-1404		WHIP ANTENNA/PRC-41				00000	00	N/A		
AA0298	AS-1405		WHIP ANTENNA/PRC-74				00000	00	N/A		
AA0299	AS-1937		WHIP ANTENNA/PRC-74				00000	00	N/A		
AA0300	AT-197		DISCONE ANTENNA/TRC-58	469246			00000	00	N/A		
AA0459	AB-865		TAC ANT MAST 100F/IRK MTD	760290	241716		00000	00	N/A		
AA0503	MA-305		MAST EXTENSION KIT/4C				00000	00	N/A		

***** COMSEC

AA0084	KU-18		TAPE READER	760014	240405		16472	77	279		
AA0106	KY-57	VINSON	SPEECH SECURITY EQUIP	699264	501373	RC2056	16472	77	279		
AA0107	KY-57	WIA	WIRELINE ADAPTER	760013	400351		16472	77	279		
AA0111	KY-58	VINSON	SPEECH SEC EQUIP ASB	720199	501441	RC2050	16472	77	274		
AA0114	KY-65	PARKHILL	SPEECH SECURITY EQUIP	720091	277097	RC2100	20151	77	252		
AA0115	KY-13		KEY GUN	730085	598103		16472	77	273		
AA0116	KY-15	NCJ	NET CONTROL DEVICE	750105	502758		00000	77	273		
AA0239	KY-19		CODE CHANGER KEY	690003	445766		00000	75	N/A		
AA0344	KG-27		ELEC KEY GENERATOR		L22987		00000	75	N/A		
AA0345	KL-7		CIPHER MACHINE		E24281		00000	75	N/A		
AA0346	KM-7		ELECT SEC SECURITY EQUIP		H02300		00000	75	N/A		
AA0367	KY-08	MESTOR	SPEECH SECURITY EQUIP		U01275		00000	75	N/A		
AA0368	KY-28	MESTOR	SPEECH SEC EQUIP 100W		U01295		00000	75	N/A		

KEY #	MOVEMENT/CLATURE	ACRONYM	DESCRIPTION	BDIP #	LINE #	SSN	ACN	YR	FUND	LOC	REMARKS
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KEY #	NUMERICALURE	ACRONYM	DESCRIPTION	3DIP #	LINE #	SSN	ACN	YR	LOC	REMARKS
0000	CONSEC									
AA0349	KY-39	NESTOR	SPEECH SECURITY EQUIP		001305		00000	75	N/A	
AA0350	KG-30-15		ELECTRONIC KEY GENERATOR		001778		23472	75	N/A	
AA0351	MYL-3		TACTICAL DIGITAL REGEN		V08721		00000	75	N/A	
AA0391	KG-45		KEY GEN HIGH SPEED TACT	770160	225273		23370	75	N/A	
AA0453	KG-30-24		ELEC KEY GENERATOR		001782				N/A	
AA0460		Z-AMD	REMOTE CTRL UNIT KY-75		262703				N/A	
AA0451	KYK-23		CODE CHANGER KEY		E54820				N/A	
AA0560	KY-75	PARKHILL	SPEECH SECURITY EQUIP ARM	720092	277092		152000	20151	282	
AA0572			FILL CABLE (CRYPTO)				00000	00	N/A	
0000	VEHICLE									
AA0437	M-715		TRUCK 1 1/4 T		X59283				N/A	
AA0438	M-211		TRUCK 2 1/2 T		X40309				N/A	
AA0439	M-35A2		TRUCK 2 1/2 T		X46009				N/A	
AA0440	M-35		TRUCK 2 1/2 T		X50309				N/A	
AA0441	M-37		TRUCK 3/4 T		X39872				N/A	
AA0445	M-275A2		TRACTOR 2 1/2 T		X59052				N/A	
AA0446	M-52		TRACTOR		X59326				N/A	
0000	SHELTERS & VANS									
AA0047	S-250		SHELTER				00000	00	N/A	
AA0071	S-280		SHELTER				00000	00	N/A	
0000	POWER UNITS & TRAILERS									
AA0422	PU-625		PWR UNIT M-101 TRL 2-3KW		J46252				N/A	
AA0423	PU-631		PWR UNIT M-103 TRL 2-5KW		J46396				N/A	
AA0424	PU-332A		PWR UNIT M-101 TRL 10KW		J49809				N/A	
AA0425	PU-405		PWR UNIT M-200 TRL 15KW		J55192				N/A	
AA0426	PU-618		PWR UNIT M-103 TRL 2-5KW		J47480				N/A	
AA0427	PU-623		PWR UNIT M-101 TRL 2-3KW		J46258				N/A	
AA0428	PU-629		PWR UNIT M-103 TRL 2-5KW		J56332				N/A	
AA0429	PU-418		PWR UNIT M-35 TRL 45KW		J5698				N/A	
AA0430	PU-407		PWR UNIT M-200 TRL 45KW		J35561				N/A	
AA0431	PU-619		PWR UNIT M-103 TRL 2-10KW		J42100				N/A	
AA0432	PU-650		PWR UNIT M-200 TRL 50-KW	590114	J35629				N/A	
AA0433	PU-474		PWR UNIT M-105 TRL						N/A	
AA0434	4JC-13		PWR ZEA M-200 2-30KW	690114	P27619				N/A	
AA0435	PU-296		PWR UNIT M-105 TRL 2-5KW		J41315				N/A	
AA0436	PU-753		PWR UNIT M-200 TRL 10KW		Z29554				N/A	
AA0462	PU-617		PWR UNIT M-101 TRL 2-3KW		J46384				N/A	
AA0463	PU-620		PWR UNIT M-116 TRL 2-5KW		J47617				N/A	
AA0501			PWR SUPPLY 20 VDC		T47915				N/A	

KEY #	NUMERICALURE	ACRONYM	DESCRIPTION	3DIP #	LINE #	SSN	ACN	YR	LOC	REMARKS
0000	CONSEC									
0000	VEHICLE									
0000	SHELTERS & VANS									
0000	POWER UNITS & TRAILERS									

A11MSP0077

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EQUIPMENT FILE FORCE MODEL:
BY KEY NUMBER

DATE 03/04/91

KEY #	NOMENCLATURE	ACRONYM	DESCRIPTION	801P #	LIVE #	SSH	ACN	YR	FUND	IUC	REMARKS
*** WIRE AND CABLE DISTRIBUTION ***											
A00117	CX-11230		CABLE SPEC PUR 1/4 MILE				65108	80	183		
A00122	CX-4556		CABLE ASSY 26 PR 250 FT				00000	00	N/A		
A00123	WD-1/AL-159		CABLE TP 1 MILE				00000	75	381		
A00124	WD-1/JR-8		CABLE TP 1/4 MILE				23100	75	381		
A00125	WD-1/4X-306		CABLE TP 1/4 MILE				00000	75	381		
A00126	CX-11230		CABLE SPEC PUR 100FT				65108	75	182		
A00127	WF-16	4 COND	CABLE TP 1 MILE				00000	75	N/A		
A00130	J-1077		DISTRIBUTION BOX				00000	75	N/A		
A00250	CX-4750	26 PR 15FT	CABLE ASSY TP				00000	00	N/A		
A00252	CX-10734/G		CABLE ASSY ADAPTER				00000	00	N/A		
*** TEST EQUIPMENT ***											
A00028	SG-1139		DIGITAL DATA GENERATOR				45549	81	183		
A00515	ECM-15		TEST SET TELG						N/A		

.....
EQUIPMENT LIST F-3 IS A LISTING OF THE INTACS INITIAL ISSUE OF NEW EQUIPMENT WHICH IS DERIVED FROM THE MASTER EQUIPMENT FILE.

.....
THE FOLLOWING INFORMATION IS FURNISHED:

- 1. KEY # - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
- 2. NOMENCLATURE, ACRONYM, DESCRIPTION - EQUIPMENT IDENTIFICATION.
- 3. BOIP # - BASIS OF ISSUE PLAN FOR FUTURE EQUIPMENT.
- 4. LINE # - LINE-ALPHANUMERIC LINE ITEM NUMBER IDENTIFICATION OF A GENERIC NOMENCLATURE.
- 5. SSN - STANDARD STUDY NUMBER - FUNDING NUMBER ASSIGNED TO APPROVED PROCUREMENT ITEMS.
- 6. ACN - ACTION CONTROL NUMBER ASSIGNED TO TRACK ALL ACTIONS PERTAINING TO A PROGRAM.
- 7. FUND YR - INITIAL FUNDING YEAR.
- 8. IOC - INITIAL OPERATIONAL CAPABILITY - TIME WHEN EQUIPMENT AND TRAINED PERSONNEL CAN BE DEPLOYED.

.....
LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (00 MAR 3,1981 00).

.....
THIS REPORT IS AVAILABLE ONLY BY EQUIPMENT CATEGORY, BUT MAY BE SORTED BY ANY COLUMN WITHIN CATEGORY.

.....
QUESTIONS SHOULD BE ADDRESSED TO JSASC-SING AUTODON 780-3182/3671.

DATE 03/04/81

EQUIPMENT FILE FORCE MODEL: F3
BY KEY NUMBER

ALHSP0077

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KEY # NOMENCLATURE ACRONYM DESCRIPTION

FUND

REMARKS

FUND

ACN

SSN

BJIP #

DESCRIPTION

ACRONYM

KEY # NOMENCLATURE

***** TACTICAL COMMUNICATIONS CONTROL FACILITIES

AA0006 MSO-114 TACSNT CONTROL CENTER 534509 22752 77 479
 AA0008 TSO-111(V3) CNCE I 770002 23425 80 285
 AA0110 TSO-111(V3) CNCE I 800155 23425 80 285
 AA0150 MSC-32A OPERATIONS CEN CMM (PIP) 220553 35327 80 282
 AA0324 MSC-31 OPERATIONS CEN CMM 00000 75 N/A
 AA0443 MSC-25 OPERATIONS CEN CMM (PIP) 219977 35327 80 282

***** SWITCHING

AA0038 TTC-33(V1) CS AUTOMATIC CENTRAL OFFICE 770046 214284 22720 81 363
 AA0039 TTC-33(V2) CS AUTOMATIC CENTRAL OFFICE 790047 214295 22720 81 383
 AA0043 SB-22 SMO TELEPHONE MANUAL 041707 23470 75 281
 AA0056 TTC-33 MS AUTO MESSAGE SW/EX-54 760098 242430 22720 81 182
 AA0119 SB-223 SWITCHBOARD MANUAL 00000 75 N/A
 AA0316 TTC-33(V1) TACTICAL AUTOMATIC SWITCH 690113 074523 1904 75 475
 AA0317 TTC-33(V2) TACTICAL AUTOMATIC SWITCH 690113 074528 1904 75 475
 AA0320 SB-361(V1)TT AUTOMATIC TP SWITCHBOARD 750057 512704 1904 75 177
 AA0321 TTC-41(V1) AUTO TP CEN O (120L) 750068 078592 1904 75 N/A
 AA0322 TTC-41(V2) AUTO TP CEN O (120L) 750069 078793 1904 75 N/A
 AA0332 TTC-41(V3) AUTO TP OFFICE (90L) (S) 755013 078851 1904 75 N/A
 AA0406 TA-207 SIGNAL ASSY S480 167915 N/A
 AA0415 TTC-41(V4) AUTO TP CEN O (120L) 770061 078929 N/A
 AA0416 TTC-41(V5) AUTO TP CEN O (120L) 770062 078650 281
 AA0417 TTC-41(V6) AUTO TP CEN O (120L) 770063 078728 281
 AA0418 TTC-41(V7) AUTO TP CEN O (120L) 770064 078796 281

***** TERMINALS

AA0053 C-6709 BNRD CONN CONTROL UNIT 695072 23415 75 281
 AA0058 TA-933 TELEPHONE SET 031305 36505 79 393
 AA0090 KY-59 DSAT DIG SECURE TP 275007 36505 79 N/A
 AA0091 MYX-63/1SEC EXTENSION TEL 226429 36505 79 N/A
 AA0092 TA-312 TELEPHONE SET 031211 23470 75 N/A
 AA0093 TA-977 TONE SIGNAL ADAPTER/SB-22 770066 225725 00000 75 N/A
 AA0095 TA-1 TELEPHONE SET 030252 00000 75 N/A
 AA0097 TA-287 REPEATER TELEPHONE 00000 75 N/A
 AA0131 TA-956 DIG NON-SEC TP 222159 23415 41 183
 AA0150 CV-DGTL SWAT SECURE CONVERTER (1 PRT) 770153 204937 36708 82 446
 AA0221 TA-973 TELEPHONE SIG INTERFACE 760040 225146 16672 80 483
 AA0239 TA-264 TELEPHONE SET 00000 75 N/A
 AA0340 TA-341 TELEPHONE SET 00000 75 N/A
 AA0341 TA-833 TELEPHONE SET 00000 75 N/A
 AA0357 TA-235 TELEPHONE SET 00000 75 N/A
 AA0457 TA-986 DIG NON-SEC TP (NON-RUG) 243580 20817 85 183
 AA0466 CV-DGTL SECURE CONVERTER (3 PRT) 800062 265314 N/A

EQUIPMENT FILE FORCE MODELS F3
BY KEY NUMBER

DATE 03/04/91

KEY #	NOMENCLATURE	ACRONYM	DESCRIPTION	BOIP #	LINE #	SSN	ACN	YR	FUND	REMARKS
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*** RECORD-TRAFFIC

AA0066	UCC-76AIV3)		TELETYPEWRITER	760091	V36146	876000	23970	77	181	
AA0077		TDC	TACTICAL DDC COPIER	770181	Z19342		24864	80	180	
AA0096	6XC-7A		TACTICAL ANALOG FALSIMILE		Z35204	SC3009	22741	78	481	
AA0133		OCR	INTERIM MESSAGE RELAY				43832	82	450	
AA0136			OPTICAL CHAR READER				23970	80	483	
AA0327	G50-80		MESSAGE CENTER		078271		00000	75	N/A	
AA0329	MCC-19		TTY OPERATIONS CENTRAL		V39228		00000	75	N/A	
AA0329	MCC-30		CENTRAL OFFICE TTY		060116		00000	75	N/A	
AA0330	TSC-53		TERMINAL TELEGRAPH		V57504		00000	75	N/A	
AA0342			TERMINAL TELEGRAPH		278668		00000	75	N/A	
AA0343			DSTE-LU		279258		00000	75	N/A	
AA0353	FCC-25		TELETYPEWRITER SET		V08221		00000	75	N/A	
AA0355	MCC-22		TELETYPEWRITER TERMINAL		V44073		00000	75	N/A	
AA0420	MCC-32		TTY OPERATIONS CENTRAL		V39253		00000	75	N/A	
AA0421	MCC-29		TERMINAL TELEGRAPH		V57151		00000	75	N/A	
AA0444	MCC-37		CENTRAL OFFICE TTY		079866		00000	75	N/A	
AA0532	TC-22		TELEGRAPH TERMINAL		V57729	871900				
AA0533	TC-23		TELEGRAPH-TELEPHONE TERM		V57729	872000				

*** SINGLE CHANNEL RADIO

AA0051	GRC-122(V2)		ROU TTY SET				17940	77	282	
AA0055	PAC-119		RADIO SET PORTABLE UHF/AM	770068	Z55876		21228	78	284	
AA0113	GSC-60		TACSAT SC G3 T		Z54975		22751	79	431	
AA0155	PAC-XX	IMPR-LP	IMPROVED HF RADIO MANPACK	800185	Z33595		62949	82	184	
AA0156	GRC-XX	IMPR-HP	IMPROVED HF RADIO VEH	800186	Z33594		62949	82	184	
AA0175	VSC-7		BASE STN IPSC-10 UHF VEH	750262	Z77011		22751	78	280	
AA0191			EOA AIR 303 REARIS				23428	82	382	
AA0192			DIV AIR 300 REARIS				23428	82	382	
AA0195	PSC-1		TACSAT MANPACK (UHF)	690359	Z77066		22751	78	282	
AA0196	MCC-65		TACSAT TERMINAL		Z77014		22751	79	382	
AA0197	PAC-63		RADIO SET VHF/PM HAND-HELD	760239	Z55741	P22500	21154	78	481	
AA0198	PAC-70		RADIO SET A4/F4 MANPACK	690473	Z38369	805100	05137	77	481	
AA0199	MCC-56		TACSAT SC T4L				22751	77	182	
AA0207	PAC-47		RADIO SET HF/SSB PORTABLE		038119		00000	00	N/A	
AA0209	VRC-24		RADIO SET VHF/PM AN VEH		Z50421		00000	75	N/A	
AA0209	TRC-53		RADIO SET VHF/PM AN F2D		Z19746		00000	00	N/A	
AA0222	C-10377		C344 4JDE SEL CINTR	770138	Z19746		16472	80	282	
AA0306	TSC-20		COMMUNICATIONS CENTRAL		E59625		00000	75	N/A	
AA0333	GAR-39		RADIO SET CONTRAL GROUP		079292		00000	75	N/A	
AA0334	VRC-43		RADIO SET		Z55114		00000	75	N/A	
AA0358	VRC-45		RADIO SET		053001		00000	75	N/A	
AA0359	VRC-47		RADIO SET		054174		00000	75	N/A	
AA0360	VRC-66		RADIO SET (VHF F4)		Z56793		00000	75	N/A	
AA0361	VRC-12		RADIO SET		045779		00000	75	N/A	
AA0362	PAC-77		RADIO SET VHF/PM MANPACK		038299		00000	75	N/A	
AA0356	ARC-114		RADIO SET		025990		00000	75	N/A	
AA0365	ASC-15		ELEC COMMAND CONSOLE	770173	Z16075		00000	75	N/A	
AA0367	FRC-93		RADIO SET (HF USB LS8)		027006		00000	75	N/A	

DATE 03/04/91

EQUIPMENT FILE FORCE MODELS F3
BY KEY NUMBER

AIIHSP0077

KEY #	NOMENCLATURE	ACRONYM	DESCRIPTION	BOIP #	LINE #	SSN	ACN	YR	FUND	REMARKS
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REMARKS

FUND

SSN

BOIP # LINE #

DESCRIPTION

ACRONYM

KEY # NOMENCLATURE

SINGLE CHANNEL RADIO

AAO368 GRC-106A RADIO SET
 AAO369 PAC-74 RADIO SET HF/MANPACK
 AAO370 TSC-13 COMMUNICATIONS CENTRAL
 AAO371 AKC-102 RADIO SET
 AAO372 VRC-54 RADIO SET
 AAO373 PRC-41 RADIO SET (HF 5591)
 AAO374 PRC-90 RADIO SET (JHF AM)
 AAO375 AKC-115 RADIO SET (VHF AM)
 AAO377 AKC-116 RADIO SET (JHF AM)
 AAO381 URC-10 RADIO SET (VHF AM)
 AAO384 CAC-142 RADIO TTY SET
 AAO385 AKC-3 RADIO REC SET
 AAO386 WRT-0 RADIO TRANS SET
 AAO387 VSC-2 RADIO TTY SET
 AAO388 VSC-3 RADIO TTY SET
 AAO389 CSA-7 CONTRJL RADIO SET
 AAO384 LS-147F INTERCOM
 AAO395 ASC-151021 ELEC COUNCIL CONSOLE

ANTENNAS

AAO658 AP-2315 TOWER 100 FT EXPANDABLE/MC
 AAO659 AB-861 TAC ANT MAST 100 FT
 AAO660 DE-254 BB 24V1-JTR ANT/GAR/VRG
 AAO678 TD-1233 VHF TRC JETICPLR 2 PRT
 AAO679 AS-2731 FRESHWATERED VEH ANT/GAR
 AAO680 AB-403 RAPID EJECT 30FT MAST SYS
 AAO684 AS-3450V SURV L7-22FILE ANT 16ARS1
 AAO689 DE-314 DIR VHF LP ANTENNA/GAR5
 AAO692 DE-315 ANTENNA 4F (TSC-39)
 AAO693 DE-317 ANTENNA 4F (TSC-39)
 AAO694 AT-603 CENTERED DP ANT/VRG-24
 AAO695 GAA-4 ANTENNA GROUP J3JABLET
 AAO696 GAA-5 ANTENNA GROUP J3JABLET
 AAO697 AB-621 MAST ASSEMBLY/TSC-139
 AAO698 TRA-7 ANTENNA GRP/VRG-112/121
 AAO699 AS-1425 ANTENNA/VRG-139
 AAO696 AS-1852 ANTENNA BAND 1/GRC-103
 AAO697 AS-1853 ANTENNA BAND 1/GRC-103
 AAO698 AS-1854 ANTENNA BAND 1/GRC-103
 AAO699 AS-1857 ANTENNA BAND 1/GRC-103
 AAO696 AS-452 MAST ASSEMBLY/GRC-103
 AAO697 DE-203 ANTENNA DIR VHF 1/2 340MB
 AAO698 AT-492 STEEL TAPE WHIP 3 FT/PRC
 AAO699 AT-271A MULTISECTION WHIP 10FT/PRC
 AAO697 AT-912 VEHICLELR WHIP 10 FT/VRG
 AAO698 AS-1729 COLLAPSIBLE WHIP 10FT/VRG
 AAO699 AT-494 LONG WIRE ANTENNA/PRC
 AAO696 RC-292 GROUND PLANE ANTENNA/FM
 AAO697 AT-784 LOOP ANTENNA DE/FM
 AAO698 AS-1320 WHIP ANTENNA/PRC-47

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EQUIPMENT FILE FORCE MODEL: F3
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A114SP0077

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REMARKS

FUND

SSN

BOIP # LINE #

DESCRIPTION

ACRONYM

KEY # NOMENCLATURE

KEY #	WOMENCLATURE	ACRONYM	DESCRIPTION	831P #	LINE #	SSN	ACN	YR	FUND	13C	REMARKS
0000	ANTENNAS										
AA0296	AS-1321		LONG WIRE ANTENNA/PRC-47				00000	00	N/A		
AA0297	AS-1434		UNVI-31R ANTENNA/PRC-41				00000	00	N/A		
AA0298	AS-1405		UNIT-31R LP ANTENNA/PRC-41				00000	00	N/A		
AA0299	AS-1837		WHIP ANTENNA/PRC-74				00000	00	N/A		
AA0300	AT-1197		DISCONE ANTENNA/TRC-69		A69246		00000	00	N/A		
AA0459	AB-864		TAC ANT FAST 100F/IRK MTD	760290	761716				N/A		
AA0503	MK-805		MAST EXTENSION KIT/MC						N/A		
AA0597	TD-1239		WHF TRC MULTICPLR 5 PRT	770079	796517		46971	77	282		
0000	LCN SEC										
AA0104	KU-113		TAPE READER	760014	740405		16472	77	279		
AA0102	HG-92		LOOP KEY GEN CINTRJL	790116	716039		38505	79	383		
AA0103	HG-83		AUTG KEY DISIR GEN	790113	735737		38505	79	383		
AA0104	HG-84	ICU	INTERFACE CONTROL UNIT	790114	751138		38505	79	282		
AA0105	KG-83		KEY VARIABLE GENERATOR	790106	725277		38505	79	383		
AA0106	KY-57	WINSON	SPEECH SECURITY EQUIP	692264	501373	BC2056	16472	77	279		
AA0107	HY-57	WLA	WIRELINE ADAPTER	760013	M50351		16472	77	279		
AA0108	KG-82	LGK	LOOP KEY GENERATOR	790105	725281		38505	79	383		
AA0109	KG-81	TEG	TRUNK ENCP DEVICE	790104	725285		38505	79	383		
AA0111	KY-53	WINSON	SPEECH SEC EQUIP ADV	720139	501441	BC2050	16472	77	279		
AA0112	KG-84	DLLD	DED LOOP ENCP DEVICE	790107	725259		38505	79	383		
AA0114	KY-55	PARKHILL	SPEECH SECURITY EQUIP	720091	277097	BC2100	20151	77	282		
AA0115	FYK-13		KEY GEN	730085	638103				N/A		
AA0116	FYK-15	NCJ	NET CINTRJL DEVICE	750105	M02758		16472	77	279		
AA0227	HGF-82	CEF	COMMON EQUIP FRAME		751452		00000	77	N/A		
AA0231	HGF-83	CEF	COMMON EQUIP FRAME		751463		00000	77	N/A		
AA0232	HGF-85	CEF	COMMON EQUIP FRAME		751455		00000	77	N/A		
AA0233	HGF-91		FRAME ITED		751520		00000	77	N/A		
AA0234	HYF-63		BATTERY ELIMINATOR		790185		00000	77	N/A		
AA0236	HYF-71		RECHARGER BTRY PWR SUPPLY		751843		00000	77	N/A		
AA0237	HGF-95		TRANS UNIT PDX ASSY				00000	00	N/A		
AA0239	KIK-13		CODE CHANGER KEY		645766		00000	77	N/A		
AA0260	KT-83		KVC TEST SET	790109	735307		00000	77	N/A		
AA0261	HGF-94		FRAME ITED		792395		00000	77	N/A		
AA0262	HGF-92		FRAME ITED		792394		00000	77	N/A		
AA0266	KG-82 DVP		LOOP KEY GENERATOR (DVP)				00000	77	N/A		
AA0269	KG-83 DVP		KEY VARIABLE GEN (DVP)				00000	77	N/A		
AA0264	HGF-82 DVP		LOOP KEY GEN CINTRJL(DVP)	790116	716039		00000	77	N/A		
AA0255	KG-81 DVP	TED	TRUNK ENCP DEVICE (DVP)				00000	77	N/A		
AA0344	KG-27		ELEC KEY GENERATOR	690003	L22997	T09300	00000	75	N/A		
AA0365	KL-7		LIP-4R MACHINE		E42281		00000	75	N/A		
AA0366	KW-7		ELEC TTY SECURITY EQUIP		H02300		00000	75	N/A		
AA0367	KY-09	NESTOR	SPEECH SECURITY EQUIP		U01275		00000	75	N/A		

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EQUIPMENT FILE FORCE MODELS: F3
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KEY #	NOMENCLATURE	ACRONYM	DESCRIPTION	BOIP #	LINE #	SSN	ACN	YR	IUC	REMARKS
0000	CONSEC									

AA0572 FILL CABLE (CRYPTID)

000000 00 N/A

0000 VEHICLE

AA0437	M-715		TRUCK 1 1/4 T							X39883
AA0438	M-211		TRUCK 2 1/2 T							X40009
AA0439	M-352		TRUCK 2 1/2 T							X40309
AA0440	M-35		TRUCK 2 1/2 T							X40009
AA0441	M-37		TRUCK 3/4 T							X39872
AA0446	M-52		TRACTOR							X59326

0000 SHELTERS & VANS

AA0057	S-250		SHELTER							N/A
AA0071	S-280		SHELTER							N/A

000000 00 N/A
000000 00 N/A

0000 POWER UNITS & TRAILERS

AA0229	PU-625		ENV CJN JVIT 19K BTJ							N/A
AA0422	PU-625		PWR JVIT M-101 TRL 2-3KM							J46252
AA0423	PU-631		PWR JVIT M-103 TRL 2-5KM							J46396
AA0424	PU-332A		PWR JVIT M-101 TRL 10KM							J49809
AA0425	PU-605		PWR JVIT M-200 TRL 15KM							J35492
AA0426	PU-613		PWR JVIT M-103 TRL 2-5KM							J47490
AA0427	PU-623		PWR JVIT M-101 TRL 2-3KM							J46258
AA0428	PU-523		PWR JVIT M-103 TRL 2-5KM							J45372
AA0429	PU-603		PWR JVIT M-35 TRK 45KM							J35698
AA0430	PU-607		PWR JVIT M-200 TRL 45KM							J35551
AA0431	PU-613		PWR JVIT M-103 TRL 2-10KM							J42100
AA0432	PU-650		PWR JVIT M-200 TRL 60-KM							J35629
AA0433	PU-475		PWR JVIT M-105 TRL							N/A
AA0434	MJC-10		PWR 2EA M-200 2-30KM							N/A
AA0435	PU-234		PWR JVIT M-105 TRL 2-5KM							N/A
AA0436	PU-753		PWR JVIT M-200 TRL 10KM							N/A
AA0442	PU-617		PWR JVIT M-101 TRL 2-3KM							N/A
AA0463	PU-623		PWR UNIT M-116 TRL 2-5KM							N/A
AA0501			PWR SUPPLY 28 VDC							N/A

000000 00 N/A

0000 WIRE AND CABLE DISTRIBUTION

AA0117	CX-11230		CABLE SPEC PUR 1/4 MILE							193
AA0122	CX-4556		CABLE ASSY 26 PR 250 FT							N/A
AA0123	WD-17AL-139		CABLE TP 1 MILE							00000 75
AA0124	WD-1/2R-8		CABLE TP 1/4 MILE							23100 75
AA0125	WD-1/4K-306		CABLE TP 1/4 MILE							00000 75
AA0126	CX-11230		CABLE SPEC PUR 100FT							00000 75
AA0127	WF-16		CABLE TP 1 MILE							00000 75
AA0130	J-1077		DISTRIBUTION BOX							N/A

65108 80 193
00000 00 N/A
00000 75 381
23100 75 381
00000 75 381
65108 75 182
00000 75 N/A
00000 75 N/A

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KEY #	NOMENCLATURE	ACRONYM	DESCRIPTION	BOIP #	LINE #	SSN	ACN	YR	IUC	REMARKS
0000	CONSEC									

FUND

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ATMSP0073

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REV # NOMENCLATURE ACRONYM DESCRIPTION BOIP # LINE # SSN ACN YR IUC REMARKS

0000 WIRE AND CABLE DISTRIBUTION

AA0250 CX-4750 26 PR 15FT CABLE ASSY TP
AA0252 CX-10734/G CABLE ASSY ADAPTER

0000 TEST EQUIPMENT

AA0020 SC-1139 DIGITAL DATA GENERATOR
AA0070 ST-34 INTRD LEV TEST SET(1SEC) 790112 283684
AA0515 GCN-15 TEST SET TELC
AA0596 S-551/ARN-1641X C1 ELEC MAINT SHOP (MAINT) 790089 240573
AA0595 S-552/ARN-1641X C1 ELEC MAINT SHOP (STORAGE) 790090 275936

EQUIPMENT LIST F-6 IS A LISTING OF THE INTACS HYBRID PHASE EQUIPMENT WHICH IS DERIVED FROM THE MASTER EQUIPMENT FILE.

THE FOLLOWING INFORMATION IS FURNISHED:

1. KEY # - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
2. NOMENCLATURE, ACRYM4, DESCRIPTION - EQUIPMENT IDENTIFICATION.
3. BQIP # - BASIS OF ISSUE PLAN FOR FUTURE EQUIPMENT.
4. LINE # - LIN-ALPHANERIC LINE ITEM NUMBER IDENTIFICATION OF A GENERIC NOMENCLATURE.
5. SSN - STANDARD STUDY NUMBER - FUNDING NUMBER ASSIGNED TO APPROVED PROCUREMENT ITEMS.
6. ACN - ACTION CONTROL NUMBER ASSIGNED TO TRACK ALL ACTIONS PERTAINING TO A PROGRAM.
7. FUND YR - INITIAL FUNDING YEAR.
8. IOC - INITIAL OPERATIONAL CAPABILITY - TIME WHEN EQUIPMENT AND TRAINED PERSONNEL CAN

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (00 MAR 3, 1981 00).

THIS REPORT IS AVAILABLE ONLY BY EQUIPMENT CATEGORY, BUT MAY BE SORTED BY ANY COLUMN WITHIN CATEGORY.

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SINGAPORE 780-3182/3671.

REV # NOMENCLATURE ACRONYM DESCRIPTION 301P # LINE # SSN ACN YR IOC REMARKS

**** TACTICAL COMMUNICATIONS CONTROL FACILITIES

AA0058 TSQ-111(V1) CNCE I COMM MODAL CTRL ELEM 770002 216406 23025 80 285
 AA0075 TVQ-15 CSCE COMM SYS CTRL ELEM 770025 216432 23278 82 286
 AA0118 TSQ-111(V3) CNCE III COMM MODAL CTRL ELEM 800155 216404 23025 80 285
 AA0168 MSC-32A OPERATIONS CEN COMM (PIP) N20663 35327 80 282
 AA0324 MSC-31 OPERATIONS CEN COMM 00000 75 N/A
 AA0453 MSC-25 OPERATIONS CEN COMM (PIP) N19977 35327 80 282

**** SWITCHING

AA0038 TTC-33(V1) CS AUTOMATIC CENTRAL OFFICE 770046 214284 24720 81 383
 AA0039 TTC-33(V2) CS AUTOMATIC CENTRAL OFFICE 770047 214285 22720 81 383
 AA0040 TTC-32(V2) ULCS AUTO TP CEN OFFICE (150L) 770250 294792 23442 82 176
 AA0041 SB-3855 ULCS AUTO SMD (30L) 780251 294980 23442 82 176
 AA0042 SB-3855 ULCS AUTO S-37 (50L) 23442 82 176
 AA0043 SB-22 S495 TELEPHONE MANUAL J81707 23470 75 281
 AA0056 TTC-39 MS AUTO MESSAGE SW/DX-54 760098 242430 22720 81 162
 AA0059 TTC-42(V1) ULCS AUTO TP CEN OFFICE (75L) 770021 294981 23442 82 186
 AA0098 COM MOD COMM 433JLE (UL45) 00000 00 N/A
 AA0119 SB-093 CV-DGTL SWITCHBOARD MANUAL 00000 75 N/A
 AA0150 CV-DGTL SECURE CONVERTER (1 PORT) 770153 204837 34508 82 466

**** TERMINALS

AA0053 C-6103 BNRIID COMM CONTROL UNIT E95072 24293 81 281
 AA0080 KY-90 SONRIU DCTL VET RAD INT UNIT 255039 23615 75 177
 AA0083 TA-939 DSVT TELEPHONE SET V31305 38505 79 383
 AA0090 KY-48 DSVT DIG SECURE TP 275007 38505 79 N/A
 AA0091 MYX-63/TSEC EXTENSION TEL 726429 23615 75 N/A
 AA0092 TA-312 TELEPHONE SET V31211 23615 75 N/A
 AA0095 TA-1 TELEPHONE SET V30252 00000 75 N/A
 AA0097 TA-287 REPEATER TELEPHONE R00350 00000 75 N/A
 AA0141 TA-956 DIG MDX-SEC TP 722159 23615 81 183
 AA0150 CV-DGTL SECURE CONVERTER (1 PORT) 770153 204837 38508 82 486
 AA0206 CV-3591 ADV V3 DIG VDC TERM 20786 84 185
 AA0221 TA-373 SWAT TELEPHONE SIG INTERFACE 235146 16472 80 483
 AA0339 TA-256 TELEPHONE SET V30937 00000 75 N/A
 AA0340 TA-361 TELEPHONE SET V31243 00000 75 N/A
 AA0361 TA-833 TELEPHONE SET V30963 00000 75 N/A
 AA0357 TA-235 PLRS BASIC UNIT 780151 243512 23559 00 484
 AA0376 PLRS HAMPAK KIT 780162 249813 23559 00 484
 AA0377 PLRS SURFACE VEH KIT 790163 249814 23559 00 484
 AA0400 PLRS AIRBORNE VEH KIT 780164 249815 23559 00 484
 AA0401 PLRS AUX GRND KIT 790165 249816 23559 00 484
 AA0402 PLRS PORTABLE TEST UNIT 780166 249817 23559 00 484
 AA0457 TA-984 DVT DIG NON-SEC TP (NON-RUG) 243580 20817 85 183
 AA0466 CV-DGTL SECURE CONVERTER (3 PORT) 900062 245314 23559 00 484
 AA0469 PLRS HAMPAK UNIT 250156 23559 00 484
 AA0470 PLRS SURFACE VEH UNIT 250158 23559 00 484
 AA0471 PLRS AIRBORNE VEH UNIT 250159 23559 00 484

EQUIPMENT FILE FORCE MODEL: F4
BY KEY NUMBER

DATE 03/06/91

KEY #	NOMENCLATURE	ACRONYM	DESCRIPTION	BOIP #	LINE #	SSN	ACN	YR	IOC	REMARKS
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*** RECORD-TRAFFIC

AA0077	IOC	TACTICAL DCC COPIER	770181	219342			24864	80	180	
AA0110	HTCC/ULMS	MOD TACT COM4 CEN W/ULMS	790050	223156			23970	82	285	
AA0131	VDJ/ARTT	VISJAL DISPLAY JNIT	790068	208658			23870	82	286	
AA0132	AN/ARTT	AUXILIARY MEMORY	760092	238262			22634	81	384	
AA0134	UAC-4	TAC DCTL FACSIMILE					23970	80	483	
AA0136	DCR	OPTICAL CHAR READER	791042	243733			23871	84	487	
AA0137	HTCC W/O	MOD TACT COM4 CEN					23432	3	N/A	
AA0138		DATA COM4 TERMINAL	780180	222406			00000	79	N/A	
AA0145	PSG-2	DIGITAL MSG DEVICE	790043	213317			23470	82	294	
AA0146	SSI-ARTT	MOD RECORD TFC TML (ENGL)	760092	219252			00000	75	N/A	
AA0147	UAC-4	TAC REC TFC FAX					00000	75	N/A	
AA0327	GSO-80	MESSAGE CENTER					00000	75	N/A	
AA0342		DSTE-LU					00000	75	N/A	
AA0343		DSTE-41							N/A	
AA0581		AUX LINE PRINTER (INTT)							N/A	
AA0582	CR	CARD READER (INTT)	800163	240570					N/A	
AA0583		MAG TAPE TRANSPORT JNIT	790022	223539					N/A	
AA0597	DLDED	DIV LEVEL DATA ENTRY DEV								

*** SINGLE CHANNEL RADIO

AA0048	BCS	BURST COM4 SYS(OUT-STA)					12779	82	482	
AA0050	TSC-93	COM4 CENTRAL (BASE STA)	760090	211114			12779	82	182	
AA0055	PAC-113	RADIO SET PORTABLE UHF/4M	770068	255876			21228	78	284	
AA0092	GRA-GARS	REMOTE CONTRL					22624	83	N/A	
AA0113	GSC-40	TACSAT SC GND T		264975			22751	71	491	
AA0154	ASC-GARS	COM4/AVD COM4 CONSOLE					00000	80	286	
AA0155	PRC-X1	IMPROVED HF RADIO MAMPACK	800185	233595			62949	82	184	
AA0156	GAC-X1	IMPROVED HF RADIO VEH	900186	233594			62949	82	184	
AA0170	ARC-134	RADIO SET					00700	83	N/A	
AA0171	GAC-174	RADIO SET					00000	83	N/A	
AA0172	VRC-159	RADIO SET					00000	83	N/A	
AA0175	VSC-7	RADIO SET					00000	83	N/A	
AA0181		BASE STN (PSC-1) UHF VEH	780242	277011			22751	78	280	
AA0182		EOA AIR ADD REMNIS					23428	82	382	
AA0185	PSC-7	DIV AIR ADD REMNIS					23428	82	382	
AA0186	PSC-65	TACSAT MAMPACK (JMF)	593359	277056			22751	78	482	
AA0197	PAC-63	TACSAT TCM-104A	770178	277014			22751	74	382	
AA0198	PAC-70	RADIO SET VHF/4M HANDHELD	760239	255741			21154	76	481	
AA0189	MSC-64	RADIO SET AM/FM MAMPACK	593473	839349			05137	77	491	
AA0190	ARC(11V2)	TACSAT SC TNL					22751	77	182	
AA0191	ARC(11V1)	RADIO SET AIR		254193			22624	83	287	
AA0192	ARC(11V2)	RADIO SET MAMPACK	760146	254324			22624	83	287	
AA0193	ARC(11V5)	RADIO SET VEHICLE	760167	254325			22624	83	287	
AA0194	ARC(11V6)	RADIO SET VEHICLE	760150	254328			22624	83	287	
AA0195	ARC(11V1)	RADIO SET VEHICLE	760149	254327			22624	83	287	
AA0196	ARC(11V7)	RADIO SET AIR		254192			22624	83	287	
AA0196	ARC(11V7)	RADIO SET VEHICLE	760152	254330			22624	83	287	

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BY KEY NUMBER

DATE 03/06/91

KEY #	NOMENCLATURE	ACRONYM	DESCRIPTION	BOIP #	LINE #	SSN	ACN	YR	IOC	REMARKS
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REMARKS

FUND

SSN

LINE #

BDIP #

DESCRIPTION

ACRONYM

KEY # NOMENCLATURE

*** SINGLE CHANNEL RADIO

AA0197	ERC-111V3	SINCGARS	RADIO SET VEHICLE	760148	Z54326	22624 83	287	
AA0198	ERC-111V6	SINCGARS	RADIO SET VEHICLE	760151	Z54329	22624 83	287	
AA0207	PAC-47		RADIO SET HF/SSB PORTABLE		Q34113	00000 00	N/A	
AA0208	VRC-24		RADIO SET VHF/JHF AM VEH		Q50421	00000 75	N/A	
AA0209	TBC-63		RADIO SET VHF/JHF AM FXD		Q41407	00000 00	N/A	
AA0222	C-10377		COMM TIDE SEL CONTR	770138	Z18746	16472 80	292	
AA0306	TSC-20		COMMUNICATIONS CENTRAL		E59626	00000 75	N/A	
AA0360	VRC-64		RADIO SET (VHF FM)		Q56783	00000 75	N/A	
AA0365	ASC-15		ELEC COMMAND CONSOLE	770173	Z16075	00000 75	N/A	
AA0366	UIC-1		INTERCOM SET		E58601	00000 75	N/A	
AA0367	PAC-93		RADIO SET (HF USB)		Q21006	00000 75	N/A	
AA0368	ERC-126A		RADIO SET		Q32756	00000 75	N/A	
AA0369	PSC-74		RADIO SET HF/AM MANPACK		Q34296	00000 75	N/A	
AA0370	TSC-13		COMMUNICATIONS CENTRAL		Q56399	00000 75	N/A	
AA0371	ARC-122		RADIO SET		Q26378	00000 75	N/A	
AA0374	PAC-41		RADIO SET (HF SSB)		Q37982	00000 75	N/A	
AA0375	PAC-90		RADIO SET (JHF AM)		Q38135	00000 75	N/A	
AA0376	ARC-115		RADIO SET (VHF AM)		Q26391	00000 75	N/A	
AA0377	ARC-116		RADIO SET (JHF AM)		Q26392	00000 75	N/A	
AA0378	TSC-41		FLIGHT COORD CENTER		Q25992	00000 75	N/A	
AA0380	TSC-71		ACFT COVT CENTER		Q25992	00000 75	N/A	
AA0391	URC-10		RADIO SET (VHF AM)		Q42092	00000 75	N/A	
AA0395	PBR-8		RADIO REC SET		Q90120	00000 75	N/A	
AA0396	MRT-9		RADIO TRANS SET		Q90120	00000 75	N/A	
AA0504	LS-147F		INTERCOM					
AA0506	ASC-151W21		ELEC COMMAND CONSOLE		E58601			

*** ANTENNAS

AA0059	AB-2315		TOWER 100F EXPANDABLE/MC		Z41715	00000 82	N/A	
AA0059	AB-364		TAC ANT MAST 100 FT		Z41715	23858 82	290	
AA0079	DE-254		88 OMV-DIR ANT/GARS/VRC	760290	Z41715	22018 78	379	
AA0178	TD-1238		VHF FAC MULTICPLR 2 PKT	765044	A79381	46971 77	383	
AA0179	AS-2731		FORESHORTENED VEH ANT/GAR	770027	Z92339	40154 76	281	
AA0180	AB-903		RAPID ERECT 30FT MAST SYS		M14381	22624 77	270	
AA0184	AS-3450V		SURV L/PADFILE ANT (GARS)			23862 82	393	
AA0199	DE-316		DIR VHF LP ANTENNA/GARS	770026	Z22332	46943 78	433	
AA0200		SNAP 1	STEERABLE NULL ANT/GARS			24275 83	385	
AA0201		SNAP 2	STEERABLE NULL ANT/GARS	770028	Z75610	00000 00	N/A	
AA0202	DE-315		ANTENNA HF (TSC-99)			00000 00	N/A	
AA0203	DE-317		ANTENNA HF (TSC-99)			00000 00	N/A	
AA0204	AT-303		CENTERED UP ANT/VRC-24			00000 00	N/A	
AA0210	GAA-4		ANTENNA GROUP DUBLET		A77877	00000 00	N/A	
AA0211	GAA-50		ANTENNA GROUP DUBLET		A78151	00000 00	N/A	
AA0225	AB-621		MAST ASSEMBLY/VRC-138	790120	Z41713	22624 77	382	
AA0272	TRA-7		ANTENNA GRP/VRC-112/121			00000 00	N/A	
AA0273	AS-1425		ANTENNA/VRC-138			00000 00	N/A	
AA0276	AS-1832		ANTENNA BAND 1/GRC-103			00000 00	N/A	
AA0277	AS-1833		ANTENNA BAND 11/GRC-103			00000 00	N/A	
AA0278	AS-1834		ANTENNA BAND 111/GRC-103			00000 00	N/A	
AA0279	AS-3057		ANTENNA BAND IV/GRC-103			00000 00	N/A	

REMARKS

FUND

SSN

LINE #

BDIP #

DESCRIPTION

ACRONYM

KEY # NOMENCLATURE

BY KEY NUMBER

REMARKS

FUND

SSN

DESCRIPTION

ACRONYM

KEY # NOMENCLATURE

ACRONYM

KEY #

***** ANTENNAS

AA0280 AB-952 MAST ASSEMBLY/GRC-103
 AA0284 DE-303 ANTENNA DIR VHF 1/2 HOMB
 AA0290 RC-292 GROUND PLANE ANTENNA/FM
 AA0295 AS-1320 WHIP ANTENNA/PRC-47
 AA0296 AS-1321 LONG WIRE ANTENNA/PRC-47
 AA0297 AS-1404 OMNI-DIR ANTENNA/PRC-41
 AA0298 AS-1425 UNI-DIR LP ANTENNA/PRC-41
 AA0299 AS-1837 WHIP ANTENNA/PRC-74
 AA0300 AT-197 DISCONE ANTENNA/IRC-59
 AA0459 AB-864 TAC ANT MAST 100F/TRK MTO
 AA0503 MK-305 MAST EXTENSION KIT/MC
 AA0597 TD-1239 VHF TRC MULTICPLR 5 PORT

***** CIPHER

AA0094 KUI-33 TAPE READER
 AA0102 MGA-82 LOOP KEY GEN CONTRJL
 AA0103 MGA-83 AUTO KEY DISTR GEN
 AA0104 MGA-84 ICU INTERFACE CONTROL UNIT
 AA0105 KG-93 KEY VARIABLE GENERATOR
 AA0106 KY-57 SPEECH SECURITY EQUIP
 AA0107 MYX-57 WIRELINE ADAPTER
 AA0108 KG-82 LOOP KEY GENERATOR
 AA0109 KG-81 TRUNK ENCRYPT DEVICE
 AA0111 KY-58 SPEECH SEC EQUIP ABN
 AA0112 KG-64 DLED LOOP ENCRYPT DEVICE
 AA0114 KY-65 PARKHILL
 AA0115 KY-13 KEY GEN
 AA0116 KYX-15 NET CONTROL DEVICE
 AA0119 KG-93 STEO TRUNK ENCRYPT DEVICE
 AA0227 HGF-82 CEF COMMAN EQUIP FRAME
 AA0231 HGF-83 CEF COMMAN EQUIP FRAME
 AA0232 HGF-85 CEF COMMAN EQUIP FRAME
 AA0233 HGF-91 FRAME (TED)
 AA0234 HYP-63 BATTERY ELIMINATOR
 AA0236 HYP-71 RECHARGER BTRY PWR SUPPLY
 AA0237 HGF-95 TRANS UNIT PWR ASSY
 AA0238 KGX-93 AKDC AUTO KEY DISTR GEN
 AA0239 KIX-13 CODE CHANGER KEY
 AA0240 KI-83 KVG TEST SET
 AA0241 HGF-94 FRAME (LKG)
 AA0242 HGF-92 FRAME (LKG)
 AA0248 KG-82 DVP LOOP KEY GENERATOR (DVP)
 AA0249 KG-83 DVP KEY VARIABLE GEN (DVP)
 AA0254 HGF-82 DVP LOOP KEY GEN CONTROL (DVP)
 AA0255 KG-81 DVP TRUNK ENCRYPT DEVICE (DVP)
 AA0345 KI-7 CIPHER MACHINE
 AA0350 KG-30-15 ELECTRONIC KEY GENERATOR
 AA0351 MYL-3 TACTICAL DIGITAL REGEN
 AA0391 KG-45 KEY GEN HIGH SPEED TACT
 AA0400 Z-AND REMOTE CNTRL UNIT KY-75

BY KEY NUMBER

REMARKS

FUND

SSN

DESCRIPTION

ACRONYM

KEY # NOMENCLATURE

ACRONYM

KEY #

EQUIPMENT FILE FORCE MODEL: F4
BY KEY NUMBER

DATE 03/04/81

REMARKS

FUND

ACH YR

SSN

DESCRIPTION

ACRONYM

KEY # NOMENCLATURE

EDN SEC

AD0560 KY-75 PARKHILL SPEECH SECURITY EQUIP ARM 720092 777092 20151 202
AD0572 HCF-93 FILL CABLE (CRYPTO) 00000 00 N/A
AD0576 HCF-93 FRAME (ACDC) 292378 N/A

VEHICLE

AD0224 M-300 TRUCK 1 1/4 NON-STANDARD N/A
AD0437 M-715 TRUCK 1 1/4 T N/A
AD0438 M-211 TRUCK 2 1/2 T N/A
AD0439 M-35A2 TRUCK 2 1/2 T N/A
AD0440 M-35 TRUCK 2 1/2 T N/A
AD0446 M-52 TRACTOR X59325

SHE TERS C VAMS

AD0047 S-250 SHELTER N/A
AD0071 S-250 SHELTER 00000 00 N/A

PJER UNITS C TRAILERS

AD0229 ENV CON UNIT 10K BTU N/A
AD0424 PU-025 PWR UNIT M-101 TRL 2-5KM J46252
AD0425 PU-031 PWR UNIT M-103 TRL 2-5KM N/A
AD0426 PU-332A PWR UNIT M-101 TRL 10KM N/A
AD0427 PU-005 PWR UNIT M-200 TRL 15KM N/A
AD0428 PU-013 PWR UNIT M-103 TRL 2-5KM N/A
AD0429 PU-003 PWR UNIT M-15 TRK 55KM N/A
AD0430 PU-007 PWR UNIT M-200 TRL 45KM N/A
AD0431 PU-013 PWR UNIT M-103 TRL 2-10KM N/A
AD0432 PU-050 PWR UNIT M-200 TRL 60KM N/A
AD0433 PU-076 PWR UNIT M-105 TRL N/A
AD0434 PU-110 PWR ZEA M-200 2-30KM N/A
AD0435 PU-244 PWR UNIT M-105 TRL 2-5KM N/A
AD0436 PU-753 PWR UNIT M-200 TRL 10KM N/A
AD0462 PU-017 PWR UNIT M-101 TRL 2-3KM N/A
AD0463 PU-020 PWR UNIT M-116 TRL 2-5KM N/A
AD0501 PWR SUPPLY 25 VDC T47915

WIRE AND CABLE DISTRIBUTION

AD0117 CX-11230 CABLE SPEC PWR 1/4 MILE 65108 80 183
AD0122 CX-4556 CABLE ASSY 26 PR 250 FT 00000 00 N/A
AD0123 WC-1/RL-159 CABLE TP 1 MILE 00000 75 381
AD0124 WC-1/3R-9 CABLE TP 1/4 MILE 23100 75 381
AD0125 WC-1/4R-306 CABLE TP 1/4 MILE 00000 75 381
AD0126 CX-11230 CABLE SPEC PWR 100FT 65108 75 182
AD0127 WF-16 CABLE TP 1 MILE 00000 75 N/A
AD0130 J-1077 DISTRIBUTION BOX 00000 75 N/A

DATE 03/04/81

F4

EQUIPMENT FILE FORCE MODEL: F4
BY KEY NUMBER

ACRONYM

KEY # NOMENCLATURE

REMARKS

FUND

ACH YR

SSN

DESCRIPTION

ACRONYM

KEY # NOMENCLATURE

EQUIPMENT FILE FORCE MODEL: F4
BY KEY NUMBER

DATE 03/04/81

KEY #	NUMERICALATURE	ACRONYM	DESCRIPTION	BJIP #	LINE #	SSN	ACM	YK	IOC	REMARKS
0000	WIRE AND CABLE DISTRIBUTION									
AA0250	CX-4750	26 PR 15FT	CABLE ASSY TP				00000	00	N/A	
AA0252	CX-10734/G		CABLE ASSY ADAPTER				00000	00	N/A	
0000	TEST EQUIPMENT									
AA0028	SG-1139		DIGITAL DATA GENERATOR				45549	81	183	
AA0078	ST-34		INTHEO LEV TEST SET(1SEC)	790112	283684		38505	81	282	
AA0594	S-551/ARM-1641X C)		ELEC MAINT SHOP (MAINT)	790039	240673				N/A	
AA0595	S-552/ARM-1641X C)		ELEC MAINT SHOP (STORAGE)	790090	275936				N/A	

.....
EQUIPMENT LIST F-5 IS A LISTING OF THE INTACS OBJECTIVE SYSTEM WHICH IS DERIVED FROM THE MASTER EQUIPMENT FILE.
.....

.....
THE FOLLOWING INFORMATION IS FURNISHED:
.....

- 1. KEY # - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
- 2. NOMENCLATURE, ACRONYM, DESCRIPTION - EQUIPMENT IDENTIFICATION.
- 3. BUJP # - BASIS OF ISSUE PLAN FOR FUTURE EQUIPMENT.
- 4. LINE # - LINE-ALPHABETIC LINE ITEM NUMBER IDENTIFICATION OF A GENERIC NOMENCLATURE.
- 5. SSN - STANDARD STUDY NUMBER - FUNDING NUMBER ASSIGNED TO APPROVED PROCUREMENT ITEMS.
- 6. ACN - ACTION CONTROL NUMBER ASSIGNED TO TRACK ALL ACTIONS PERTAINING TO A PROGRAM.
- 7. FUND YR - INITIAL FUNDING YEAR.
- 8. IOC - INITIAL OPERATIONAL CAPABILITY - TIME WHEN EQUIPMENT AND TRAINED PERSONNEL CAN BE DEPLOYED.

.....
LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (00 MAR 3, 1981 **).
.....

.....
THIS REPORT IS AVAILABLE ONLY BY EQUIPMENT CATEGORY, BUT MAY BE SORTED BY ANY COLUMN WITHIN CATEGORY.
.....

.....
QUESTIONS SHOULD BE ADDRESSED TO JSASC-SING AUTVON 790-3182/3671.
.....

DATE 03/04/81

EQUIPMENT FILE FORCE MODELS FS
BY KEY NUMBER

ATINSP0077

PAGE 2

REV # NOMENCLATURE ACRONYM DESCRIPTION

FUND

REF ID	NAME	ACRONYM	DESCRIPTION	QJIP #	LINE #	SSN	ACN	YR	FUND	INC	REMARKS
0000	MULTICHANNEL TRANSMISSION										
AA00001	TRC-174		RADIO REPEATER SET	790040	254150		35335	80	285		
AA00014	TRC-170(V3)		TAC DIGITAL TROPO 1K4				00000	00	N/A		
AA00015	TRC-170(V2)		TAC DIGITAL TROPO				00000	00	N/A		
AA00016	TSC-151	MCJS	M/C TACSAT SHF DBJ 36CH				14939	83	193		
AA00017	TSC-141	MCJS	M/C TACSAT SHF 33J 72CH				14939	83	193		
AA00021		MSC	MOBILE SUB CENTRAL (4SE)				56190	85	486		
AA00025	GRC-103(V4)	BAND IV	RADIO SET				35525	77	N/A		
AA00052	TRC-113		RADIO TERMINAL SET	790041	257270		35335	82	265		
AA00057	TRC-138		RADIO REPEATER SET (400)				35325	81	256		
AA00094	TRC-110(V1)		TAC DIGITAL TROPO 10K4				02787	93	486		
AA00095	TRC-118		RADIO TERMINAL SET				35235	79	286		
AA00144		S44PR	RADIO TERMINAL SET	790038	275573		21931	81	286		
AA00155	TRC-113(V3D)		RADIO REPEATER SET (304)				00000	00	N/A		
AA00174		MCPR	M/C CP RADIO (4MM)	790164	256335		46842	80	356		
AA00230	GRC-154(V3)		RADIO SET (UNIVERSAL)				00000	77	N/A		
AA00255	GRC-154(V4)	S44BR	RADIO SET (S44BR 400)				00000	80	N/A		
AA00308		PLRS	MASTER UNIT	750126	250161		23559	00	484		
AA00505	CW-2500		FREQ CONV								
AA00506	RA-637		DUMMY LOADS								

NAME	MULTIPLEX	TO-1049	TO3M	TIME DIVISION	DIGITAL	MUX	590431	121130	13357 77	193
AA0020	ISC-97	AA0020		DATA MULTIPLEX SET			790187	220550	13557 79	N/A
AA0050	TD-1219	MSR		M/S PULSE RESTORER			770047	250543	21957 79	286
AA0051	TD-1218	LSPR		L/S PULSE RESTORER			770046	250544	21957 79	286
AA0062	MC-1026	GM		GROUP MODM				243662	21957 79	286
AA0064	TD-1237	MC4		MASTER SP MUX				243676	21957 79	286
AA0073				TACSAT RJ/CVRL MODM			790246	272048	22752 77	481
AA0046	MD-1052	- D14		OPTICAL TRAVS MODM				243665	23266 82	195
AA0097	RI-1297	- D11		OPTICAL RPTX MTR			790162	263057	23266 82	186
AA0120	TD-1234	RVC		REMOTE MUX COMLINEK			770043	245674	21957 79	286
AA0129	TD-1236	TG4		TN4 GR3JP J4K				245853	21957 77	285
AA0135				TACSAT MC LAMA MODM				23268 83	248	
AA0140	TS-3547	CNJ		CABLE ORDERWIRE UNIT			770048	211774	21957 79	286
AA0143	TD-1233	RLSM		REMOTE L3DP GR3JP MUX			770040	245599	21957 81	285
AA0151	MC-1026	MSCD4		MS CABLE DVR MODM				243657	21957 79	235
AA0152	MD-1023	LSCD4		LS CABLE DVR MODM				243658	21957 79	286
AA0153	MC-1025	RLSM-CD		RLCM-CABLE DVR MODM				243682	21957 79	286
AA0270	C-10716	UCU 1		ORDERWIRE CVTRL U TYPE 1				25292 00	284	
AA0271	C-10717	UCU 2		ORDERWIRE CVTRL U TYPE 2				52500 00	284	
AA0454	TD-1235	LC4		L3DP GR3JP MUX				245671	N/A	N/A
AA0502	MD-1055	103 MODM		DIGITAL DATA MODM						

0000 TACTICAL COMMUNICATIONS CONTROL FACILITIES
AA0006 HSB-114 TACSAT CONTROL CENTER
AA0054 CSPE COMNAV SYSTEMS PLANNING ELEMENT

EQUIPMENT FILE FORCE MODEL: FS
BY KEY NUMBER

DATE 03/04/91

KEY #	ABBREVIATURE	ACRONYM	DESCRIPTION	BUYP #	LINE #	SSN	ACN	YR	17C	REMARKS
TACTICAL COMMUNICATIONS CONTROL FACILITIES										
AA0058	TSO-1111V11	CNCE I	COMM MODAL CTRL ELEM	770002	716406		23425	80	285	
AA0065			MSE CONTROL FACILITY CSCE				56190	85	488	
AA0075	TYO-36	CSCE	COMM SYS CTRL ELEM	770005	216432		23278	82	286	
AA0118	TSO-1111V13	CNCE III	COMM MODAL CTRL ELEM	800155	216406		23425	80	285	
AA0324	MSC-31		OPERATIONS CEN COMM		420115		00000	75	N/A	

SWITCHING

AA0038	TTC-391V11	CS	AUTOMATIC CENTRAL OFFICE	790046	214234		22720	81	383	
AA0039	TTC-391V21	CS	AUTOMATIC CENTRAL OFFICE	790047	214235		22720	81	383	
AA0040	TTC-421V21	ULCS	AUTO TP CEN OFFICE (LSOL)	780450	214282		23442	82	186	
AA0041	SB-3P65	ULCS	AUTO S493 (LSOL)	790451	214280		23442	82	186	
AA0042	SB-3E55	ULCS	AUTO S493 (LSOL)				23442	82	186	
AA0043	SB-22		S493 TELEPHONE MANUAL		061707		23470	75	481	
AA0055	TTC-39	AS	AUTO MESSAGE S4/JR-54	760098	242430		22720	51	112	
AA0059	TTC-421V11	ULCS	AUTO TP CEN OFFICE (LSOL)	770021	214231		23442	82	186	
AA0098		COMM MOD	COMM MODULE (ULCS)				00000	00	N/A	
AA0119	SB-393		SWITCHBOARD MANUAL				00000	75	N/A	

TERMINALS

AA0053	C-6709	BRK13	COMM CONTROL UNIT	895072			56190	85	281	
AA0053		MSE-AU	ACCESS UNIT	243530			24293	81	286	
AA0080	KY-90	SOVR10	DTCL NLT R4D INT UNIT	255089			23415	75	177	
AA0083	TA-931		TELEPHONE SET	834506			36505	79	383	
AA0090	KY-68	DSVT	DIG SECURE TP	226429			38505	79	N/A	
AA0091	HYX-63/TSEC		EXTENSION TEL	790110			23470	75	N/A	
AA0092	TA-312		TELEPHONE SET	869606			00000	75	N/A	
AA0095	TA-1		TELEPHONE SET	830252			00000	75	N/A	
AA0097	TA-287		REPEATER TELEPHONE	830360			20917	85	498	
AA0121		AST	MOBILE SJ3 TERM (TERM)	243537			23415	81	185	
AA0141	TA-954	DSVT	DIG NON-SEC TP	222159			36508	82	486	
AA0150		CV-DGTL	SECURE CONVERTER (1 PORT)	770153			20736	84	185	
AA0206	CV-3531	DSVT	ADV NS DIG VDC TERM	209339			16472	90	483	
AA0221	TA-973	SWAT	TELEPHONE SIG INTERFACE	235146		829440	00000	75	N/A	
AA0339	TA-265		TELEPHONE SET	859100			00000	75	N/A	
AA0340	TA-341		TELEPHONE SET	831243			23415	75	177	
AA0341	TA-833		TELEPHONE SET	273558			00000	75	N/A	
AA0357	TA-235		TELEPHONE SET	830463			23559	90	484	
AA0396		PLRS	PLRS BASIC UNIT	780151			23559	00	484	
AA0397		PLRS	PLRS HAPACK KIT	780162			23559	00	484	
AA0399		PLRS	PLRS SURFACE VEH KIT	780163			23559	00	484	
AA0400		PLRS	PLRS AIRBORNE VEH KIT	780164			23559	00	484	
AA0401		PLRS	PLRS AUC GARD KIT	780165			23559	00	484	
AA0402		PLRS	PLRS PORTABLE TEST UNIT	780166			23559	00	484	
AA0447	TA-986	DSVT	DIG NON-SEC TP (NON-RJG)	243580			20817	85	183	
AA0465		CV-DGTL	SECURE CONVERTER (3 PORT)	800052			23559	00	484	
AA0469		PLRS	PLRS HAPACK UNIT	750156			23559	00	484	
AA0470		PLRS	PLRS SURFACE VEH UNIT	750158			23559	00	484	
AA0471		PLRS	PLRS AIRBORNE VEH UNIT	750159			23559	00	484	

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EQUIPMENT FILE FORCE MODEL: FS
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KEY # ABBREVIATURE ACRONYM DESCRIPTION

FUND

EQUIPMENT FILE FORCE MODEL: F5
BY KEY NUMBER

DATE 03/06/81

KEY #	WOMENCLATURE	ACRONYM	DESCRIPTION	QJIP #	LINE #	SSN	ACN	VR	LOC	REMARKS
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*** RECORD-TRAFFIC

AA0077	TDC		TACTICAL DJC CJPIER	770131	210362		24856	80	190	
AA0110	MTCC/JULMS		MOD TACT CUMM CEN W/JULMS						N/A	
AA0131	VOJ/ARTT		VISUAL DISPLAY UNIT	790050	223166		23870	82	286	
AA0132	AW/ARTT		AUXILIARY WEADRY	790058	209458		23970	82	286	
AA0134	UXC-4		TAC DGT FACSTALE	760092	238252		22534	91	344	
AA0136	OCR		OPTICAL CHAR READER				23970	80	483	
AA0137	MTCC W/O		MOD TACT CUMM CEN	790042	243733		23871	84	487	
AA0139			DATA C244 TERMINAL				23432	3	N/A	
AA0145	PSG-2		DIGITAL MSG DEVICE	780180	222406		00000	79	N/A	
AA0166	SST-ARTT		MOD RECORD TFC TALE (SVGL)	790043	237117		23970	32	284	
AA0167	UXC-4		TAC REC TFC FAX	760092	238252		22534	90	344	
AA0327	GSO-83		MESSAGE CENTER		074271		00000	75	N/A	
AA0342			OSTE-LJ		274658		00000	75	N/A	
AA0343			OSTE-HI		278668				N/A	
AA0581			AUX LINE PRINTER (ARTT)						N/A	
AA0582	CR		CARD READER (ARTT)						N/A	
AA0593			MAG TAPE TRANSPORT UNIT	903163	240570				N/A	
AA0587	DUDED		DTV LEVEL DATA ENTRY DEV	790022	223539				N/A	

*** SINGLE CHANNEL RADIO

AA0048	BSC		BURST CUMM SYS (CJT-STA)				12779	82	482	
AA0050	TSC-99		CUMM CENTRAL (BASE STA)	760090	211114		12779	82	162	
AA0055	PAC-113		RADIO SET PORTABLE UHF/AM	770068	255876		21228	78	284	
AA0052	GRA-CARS		WEADRY CONTROL				22524	83	N/A	
AA0113	GSC-63		TACSAT SC GND T		264976		22751	79	481	
AA0114	ASC-CARS		CUMM CUMM CUMM				00000	80	286	
AA0155	PAC-XE		IMPROVED HF RADIO MANPACK	800185	233595		52549	82	184	
AA0156	GRC-XE		IMPROVED HF RADIO VEH	800186	233594		62949	82	184	
AA0170	ARC-154		RADIO SET				00000	83	N/A	
AA0171	GRC-174		RADIO SET				00000	83	N/A	
AA0172	VAC-159		RADIO SET				00000	83	N/A	
AA0175	VSC-7		BASE STN (PSC-1) JHF VEH	780242	277011		22751	78	290	
AA0181			EAD AIR ROD REXMIS				23428	82	382	
AA0182			DIV AIR ROD REXMIS				23428	82	382	
AA0183	SCOTY		TACSAT SVC TERMINAL				23840	84	487	
AA0195	PSC-1		TACSAT MANPACK (JHF)				22751	78	282	
AA0187	PAC-63		RADIO SET VHF/FM HANDHELD	760239	255741		21124	74	481	
AA0188	PAC-73		RADIO SET VHF/FM MANPACK	690473	838349		05137	77	481	
AA0190	ARC(11V2)		RADIO SET AIR		805100					
AA0191	GRC(11V1)		RADIO SET MANPACK				22524	83	287	
AA0192	GRC(11V2)		RADIO SET VEHICLE	760146	254324		22524	83	287	
AA0193	GRC(11V3)		RADIO SET VEHICLE	760147	254325		22524	83	287	
AA0194	GRC(11V4)		RADIO SET VEHICLE	760150	254323		22524	83	287	
AA0195	ARC(11V1)		RADIO SET AIR	760149	254327		22524	83	287	
AA0196	GRC(11V7)		RADIO SET VEHICLE				22524	83	287	
AA0197	GRC(11V3)		RADIO SET VEHICLE	760152	254330		22524	83	287	
				760148	254326		22524	83	287	

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EQUIPMENT FILE FORCE MODEL: F5
BY KEY NUMBER

KEY #	WOMENCLATURE	ACRONYM	DESCRIPTION	QJIP #	LINE #	SSN	ACN	VR	LOC	REMARKS
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EQUIPMENT FILE FORCE MODELS: FS
BY KEY NUMBER

DATE 03/04/31

REMARKS

ACN YR IUC

SSN

BJIP # LINE #

DESCRIPTION

ACRONYM

REV # NOMENCLATURE

*** SINGLE CHANNEL RADIO

REV #	NOMENCLATURE	ACRONYM	DESCRIPTION	BJIP #	LINE #	SSN	ACN	YR	IUC	REMARKS
AA0198	ARC-115(S)	SINCGARS	RADIO SET VEHICLE	760151	754324		22624	B3	287	
AA0207	PRC-47		RADIO SET HF/SSR PORTABLE		338119		00000	00	N/A	
AA0208	PRC-24		RADIO SET VHF/JHF AM VEH		350421		00000	75	N/A	
AA0209	TAC-63		RADIO SET VHF/JHF AM VEH		341407		00000	00	N/A	
AA0222	C-10317		COMM MODE SEL CONTR	770138	213756		16472	R0	284	
AA0306	TSC-20		COMMUNICATIONS CENTRAL		E59526		00000	75	N/A	
AA0350	PRC-66		RADIO SET (VHF F4)		056133		00000	75	N/A	
AA0365	ASC-15		ELEC COMMAND CONSOLE	770173	216075		00000	75	N/A	
AA0366	UIC-1		INTERCOM SET		E19601		00000	75	N/A	
AA0357	PRC-33		RADIO SET (HF JSB 58)		237025		00000	75	N/A	
AA0358	GRC-106A		RADIO SET		247756		00000	75	N/A	
AA0359	PRC-74		RADIO SET HF/34 MAPACK		Q19236		00000	75	N/A	
AA0370	TSC-13		COMMUNICATIONS CENTRAL		C59739		00000	75	N/A	
AA0371	ARC-102		RADIO SET		225478		00000	75	N/A	
AA0374	PRC-41		RADIO SET (HF SS3)		Q17482		00000	75	N/A	
AA0375	PRC-33		RADIO SET (JHF AM)		234935		00000	75	N/A	
AA0376	ARC-115		RADIO SET (VHF AM)		225931		00000	75	N/A	
AA0377	ARC-116		RADIO SET (JHF AM)		Q25932		00000	75	N/A	
AA0378	TSC-51		ELIJA' C33RD CENTER		265492		00000	75	N/A	
AA0380	TSC-71		ACFT CONT CENTER		Q25932		00000	75	N/A	
AA0391	URC-13		RADIO SET (VHF AM)		Q62792		00000	75	N/A	
AA0395	MR-9		RADIO REC SET		Q90120		00000	75	N/A	
AA0386	MRT-9		RADIO TRANS SET		Q90120		00000	75	N/A	
AA0403			PLRS/JTIDS M4K10				446			
AA0404			JTIDS CLASS 1 THL				456			
AA0405			JTIDS CLASS 1 THL				466			
AA0406			JTIDS/PLRS THL				466			
AA0407			ENHANCED PLRS USER UNIT				486			
AA0504	LS-147F		INTERCOM		E58601		486			
AA0506	ASC-15(V2)		ELEC COMMAND CONSOLE				N/A			

*** ANTENNAS

AA0058	AB-2315		TOWER 100' EXPANDABLE/ARC	760290	741715	SCS304	00000	42	N/A	
AA0059	AB-964		TAC ANT 40ST 100 FT		741715		23358	92	470	
AA0079	DE-254		BB DNV1-JIR ANT/GARS/VRC	765044	479381		24018	76	379	
AA0178	TD-1238		VHF TRC MULTICPLR 2 PKT	770027	792339		46971	77	383	
AA0179	AS-2731		FRS-40RVED VEH ANT/GAR		40134		40134	76	2-1	
AA0180	AT-703		RAPID ERECT 30FT MAST SYS		M14381		22624	77	270	
AA0184	AS-3450V		50KV L/PROFILE ANT (GARS)				23962	42	3-4	
AA0189	DE-314		DIR VHF LP ANTENNA/GARS	770026	742932		46942	76	463	
AA0200			STEERABLE NULL ANT/VRC-12	770028	775510		24295	53	355	
AA0201			STEERABLE NULL ANT/GARS				00000	00	N/A	
AA0202	DE-315		ANTENNA HF (TSC-99)				00000	00	N/A	
AA0203	DE-317		ANTENNA HF (TSC-99)				00000	00	N/A	
AA0204	AT-803		CENTERED DP ANT/VRC-24		A78777		00000	00	N/A	
AA0210	GAR-4		ANTENNA GROUP DOUBLET		A78151		00000	00	N/A	
AA0211	GAR-50		ANTENNA GROUP DOUBLET				22624	77	382	
AA0225	AB-621		MAST ASSEMBLY/TRC-138	790120	741713		00000	00	N/A	
AA0273	AS-1425		ANTENNA/TRC-138				00000	00	N/A	
AA0276	AS-1832		ANTENNA BAND I/GRC-103				00000	00	N/A	

DATE 03/04/31

EQUIPMENT FILE FORCE MODELS: FS
BY KEY NUMBER

REMARKS

ACN YR IUC

SSN

BJIP # LINE #

DESCRIPTION

ACRONYM

REV # NOMENCLATURE

FUND

REMARKS

DESCRIPTION

ACRONYM

NUMERICALURE

COMSEC

BOIP #

LINE #

SSN

ACN

YR

IOC

REMARKS

AA0254 HCY-82 DVP
AA0255 HCY-81 DVP
AA0345 RL-7
AA0350 RC-30-15
AA0351 HYL-3
AA0391 HCY-45
AA0460 Z-AND
AA0560 PARK-HILL
AA0572
AA0576 HCF-93

VEHICLE

AA0224 M-300
AA0437 M-715
AA0438 M-211
AA0439 M-3542
AA0440 M-35
AA0446 M-52

SHELTERS & VANS

AA0667 S-250
AA0071 S-230

POWER UNITS & TRAILERS

AA0176 SOL PWR UNIT(SIESTA)
AA0177 100W THERMO GEN(SIESTA)
AA0229 ENV COM UNIT 19K STU
AA0422 PWR UNIT M-101 TAL 2-3KW
AA0423 PU-625
AA0426 PU-631
AA0431 PU-618
AA0432 PU-619
AA0433 PU-650
AA0434 PU-476
AA0435 MJC-10
AA0501 PWR SUPPLY 28 VDC

TERMINAL ASSEMBLAGES

AA0002 ACS COM ASBL
AA0006 ACR CP COM TRACK
AA0011 ACR CP COM SPT TRACK
AA0012 ACS CP COM TRACK
AA0013 A/M BDE CP COM TRACK
AA0018 DIV SSQ COM ASBL

DATE 03/06/81

EQUIPMENT FILE FORCE MODELS FS
BY KEY NUMBER

AT14SP0077

PAGE 8

KEY # NUMERICALURE ACRONYM DESCRIPTION

BOIP # LINE #

SSN

ACN

YR

IOC

REMARKS

FUND

DATE 03/04/81

EQUIPMENT FILE FORCE MODELS FS
BY KEY NUMBER

ATIMSP0077

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KEY #	NOMENCLATURE	ACRONYM	DESCRIPTION	DDP #	LINE #	SSN	ACN	YK	IUC	REMARKS
***** TERMINAL ASSEMBLAGES *****										
AA0024	MS77		MS77 TAC CP				45551	78	N/A	
AA0026			BN CP CDM TRACK				28938	82	186	
AA0031			DTUC CDM ASBL				28939	82	285	
AA0032			DTUC STAFF CDM ASBL				28939	82	285	
AA0033			DISCOM CDM ASBL				28939	82	285	
AA0034			FASC/SPT BN CDM ASBL				28939	82	285	
AA0035			DIV/BDE CDM ASBL				28939	82	285	
AA0036			DIV BICC CDM ASBL				28939	82	285	
AA0037			BN CDM ASBL				28939	82	285	
AA0044			DTUC CDM ASBL				28939	82	285	
AA0045			DTUC STAFF CDM ASBL				28939	82	285	
***** WIRE AND CABLE DISTRIBUTION *****										
AA0081	TS-3758	DTIS	TEST SET OPTICAL	790146	283774	M21101	23266	82	156	
AA0089		JCA	OPTICAL CABLE ASSEMBLY	790143	211218	836401	23266	82	156	
AA0089		LODM	LOCAL DIST OPTICAL MJOEM	790145	243672	836601	23266	82	156	
AA0117	CA-11220		CABLE SPEC PWR 1/4 MILE				65108	80	183	
AA0122	CX-4-556		CABLE ASSY 25 PR 250 FT				00000	00	N/A	
AA0123	WC-1/RL-159		CABLE TP 1 MILE				00000	75	381	
AA0124	MU-1/DR-9		CABLE TP 1/4 MILE				23100	75	381	
AA0125	NC-1/4X-306		CABLE TP 1/4 MILE				00000	75	381	
AA0125	CX-11220		CABLE SPEC PWR 100FT				65108	75	182	
AA0127	WF-16	4 COND	CABLE TP 1 MILE				00000	75	N/A	
AA0130	J-1077		DISTRIBUTION BOX				00000	75	N/A	
AA0250	CX-4-750	26 PR 15FT	CABLE ASSY TP				00000	00	N/A	
AA0252	CX-10734/G		CABLE ASSY ADAPTER				00000	00	N/A	
***** TEST EQUIPMENT *****										
AA0028	SG-1139		DIGITAL DATA GENERATOR	790112	283684		45549	81	183	
AA0078	ST-34		INTHEC LEV TEST SET/ITSECI				38505	81	282	
AA0594	S-551/ARM-1641X C3		ELEC MAINT SHOP (MAINT)	790089	240673				N/A	
AA0595	S-552/ARM-1641X C3		ELEC MAINT SHOP (STORAGE)	790090	245936				N/A	

APPENDIX E. EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES

MULTICHANNEL

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
301	TRC-145 Radio Term Set	1	422	PU-625 Power Unit
		1	472	M-101 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
166	TRC-113 Radio Rptr Set	1	422	PU-625 Power Unit
		1	472	M-101 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
302	TRC-138 Radio Rptr Set	1	631	PU-631 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
303	TRC-112 Radio Term Set	1	424	PU-332A Power Unit
		1	472	M-101 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
304	TRC-121 Radio Term Set	1	425	PU-405 Power Unit
		1	478	M-200 Trailer
		1	71	S-280 Shelter
		1	439	M-35A2 Truck

EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
305	TRC-132A Radio Term Set	1	484	MJQ9 Power Unit
		1	477	M-118 Trailer
		2	71	S-280 Shelter
		2	438	M-211 Truck
19	TSC-86 TACSAT M/C Term	1	425	PU-405 Power Unit
		1	478	M-200 Trailer
				Shelter
				Truck
20	TSC-85 TACSAT M/C Terminal	2	425	PU-405 Power Unit
		2	478	M-200 Trailer
		1	71	S-280 Shelter
		2	439	M-35A2 Trucks
3	TSC-93 TACSAT M/C Terminal	2	436	PU-753 Power Unit
		2	478	M-200 Trailer
		1	47	S-250 Shelter
		2	490	M-885 Truck
382	TRC-110 Radio Rprr Set	1	426	PU-418 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	439	M-35A2 Truck

EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
390	TRC-117 Radio Terminal Set	1	426	PU-618 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	439	M-35A2 Truck
167	TRC-145 Radio Term Set (PIP)	1	422	PU-625 Power Unit
		1	472	M-101 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
5	TRC-151 Radio Terminal Set	1	426	PU-618 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
7	TRC-152 Radio Rptr Set	1	426	PU-618 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
52	TRC-173 Radio Terminal Set	1	426	PU-618 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck

EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
1	TRC-174 Radio Rptr Set	1	426	PU-618 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
67	TRC-138 Radio Rptr Set (Mod)	1	423	PU-631 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
144	TRC-175 Radio Term Set (SRWBR)	1	426	PU-631 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
85	TRC-(DI) 5/4 173/113 Mod	2	422	PU-625 Power Unit
		1	472	M-101 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
15	TSC-(S) M/C DAMA TACSAT	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck

EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
16	TSC (M) M/C DAMA TACSAT	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
17	TSC (L) M/C DAMA TACSAT	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
398	PLRS Master Unit			Power Unit
				Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
21	MSC Mobile Subscriber Central	1	481	PU-406 Power Unit
		1	478	M-200 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck

MULTIPLEX

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
325	TCC-60 Terminal Telephone	1	427	PU-628 Power Unit
		1	472	M-101 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck

EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
	TCC-61 Terminal Telephone	1	428	PU-629 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	439	M-35A2 Truck
307	TCC-65 Terminal Telephone	1	427	PU-628 Power Unit
		1	472	M-101 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
325	TCC-69 Terminal Telephone	1	427	PU-628 Power Unit
		1	472	M-101 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
308	TCC-72 Terminal Telephone	1	427	PU-628 Power Unit
		1	472	M-101 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
309	TCC-73(V)1 Terminal Telephone	1	428	PU-629 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck

EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
310	TCC-73(V)2 Terminal Telephone	1	428	PU-629 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
30	TSC-97 TODM Assemblage	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
169	TCC-65 Terminal Telephone (PIP)	1	427	PU-628 Power Unit
		1	472	M-101 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
442	TCC-72 Terminal Telephone (PIP)	1	427	PU-628 Power Unit
		1	472	M-101 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
173	TCC-73 Terminal Telephone (PIP)	1	428	PU-629 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck

EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES (CONT'D)

TACTICAL COMMUNICATIONS CONTROL FACILITIES

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
323	MSC-25 Comm Opns Center	1	429	PU-408 Power Unit
		1	439	M-35A2 Truck
		1	493	M-348A2 Semi-Trailer Van
		1	445	M-275A2 Tractor
324	MSC-31 Comm Opns Center	1	430	PU-407 Power Unit
		1	478	M-200 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
326	MSC-32 Operations Central	1	430	PU-407 Power Unit
		1	478	M-200 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
331	TSC-76 Comm Patching Center	1	428	PU-629 Power Unit
		1	474	M-103 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
332	SB-675 Comm Patch Panel	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck

EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
74	TSQ-84 Tech Control Center	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	439	M-35A2 Truck
72	TSQ-84A Tech Control Center	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	439	M-35A2 Truck
6	MSQ-114 TACSAT	2	432	PU-650 Power Unit
		2	478	M-200 Trailer
		1	492	33 Ft Semi-Trailer Van
		1	446	M-52 Tractor
		2	440	M-35 Trucks
76	TSQ-85 Tech Control Center	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	439	M-35A2 Truck
443	MSC-25 Comm Opns Center (PIP)	1	429	PU-408 Power Unit
		1	439	M-35A2 Truck
		1	493	M-348A2 Semi-Trailer Van
		1	445	M-275A2 Tractor

EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
168	MSC-32A Comm Opns Center (PIP)	1	430	PU-407 Power Unit
		1	478	M-200 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
58	TSQ-111 (1(V)) CNCE	2	432	PU-650 Power Unit
		2	478	M-200 Trailer
		2	71	S-280 Shelter
		2	438	M-211 Truck
118	TSQ-111 (111(V)) CNCE	2	432	PU-650 Power Unit
		2	478	M-200 Trailer
		2	71	S-280 Shelter
		2	438	M-211 Truck
75	TYQ-16 CSCE	2	481	PU-406 Power Unit
		2	478	M-200 Trailer
		2	71	S-280 Shelter
		2	438	M-211 Truck
65	MSE Control Facility	2	481	PU-406 Power Unit
		2	478	M-200 Trailer
		2	71	S-280 Shelter
		2	438	M-211 Truck

EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES (CONT'D)

KEY NOMENCLATURE

54 CSPE

QTY KEY NOMENCLATURE

1	429	PU-408	Power Unit
1	440	M-35	Truck
1	71	S-280	Shelter
1	438	M-211	Truck

SWITCHINGKEY NOMENCLATURE

311 MTC-1 Central Office Telephone

QTY KEY NOMENCLATURE

1	433	PU-619	Power Unit
1	475	M-103	Trailer
2	494	S-280	Shelter
3	438	M-211	Truck

354 MTC-9 Central Office Telephone

1	481	P-406	Power Unit
1	478	M-200	Trailer
2	493	M348A2	Van
2	445	M-275A2	Tractor

312 TTC-23 Central Office Telephone

1	428	PU-629	Power Unit
1	474	M-103	Trailer
1	71	S-280	Shelter
1	438	M-211	Truck

EQUIPMENT PACKAGES - POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
413	TTC-25 (V1) Central Office Tp	1	482	PU-402 Power Unit
		1	478	M-200 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
414	TTC-25(V2) Central Office Tp	1	482	PU-402 Power Unit
		1	478	M-200 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
313	TTC-29 Central Office Telephone	1	427	PU-628 Power Unit
		1	472	M-101 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
314	TTC-35(V1) Central Office Tp	1	426	PU-618 Power Unit
		1	474	M-103 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
315	TTC-35(V2) Central Office Tp	1	426	PU-618 Power Unit
		1	474	M-103 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck

EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
316	TTC-38(V)1 Tactical Automatic Switch	1	434	MJQ-10 Power Unit
		1	478	M-200 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
317	TTC-38(V)2 Tactical Automatic Switch	1	434	MJQ-10 Power Unit
		1	478	M-200 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
321	TTC-41(V)1 Switchboard Automatic 60L	1	463	PU-620 Power Unit
		1	476	M-116 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
322	TTC-41(V)2 Switchboard Automatic 90L	1	463	PU-620 Power Unit
		1	476	M-116 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
392	TTC-41(V)3 Switchboard Automatic 120L	1	463	PU-620 Power Unit
		1	476	M-116 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck

EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
38	TTC-39(V)1 Automatic Central Office			
		3	481	PU-406 Power Unit
		1	485	J-3525 Power Control
		4	478	M-200 Trailer
		2	71	S-280 Shelter
		2	438	M-211 Trucks
39	TTC-39(V)2 Automatic Central Office			
		3	481	PU-406 Power Unit
		1	485	J-3525 Power Control
		4	478	M-200 Trailer
		2	71	S-280 Shelter
		4	438	M-211 Trucks
56	TYC-39 Automatic Message Switch			
		3	432	PU-650 Power Unit
		1	485	J-3525 Power Control
		4	478	M-200 Trailers
		4	71	S-280 Shelters
		4	438	M-211 Trucks
59	TTC-42(V)1 Unit Level Switch (75L)			
		1	425	PU-405 Power Unit
		1	478	M-200 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck

EQUIPMENT PACKAGES-POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
40	TTC-42(V) 2 Unit Level Switch (150L)	1	425	PU-405 Power Unit
		1	478	M-200 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
99	TYC-11 Unit Level Message Switch	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
<u>RECORD TRAFFIC</u>				
<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
327	GSQ-80 Message Center	1	71	S-280 Shelter
		1	438	M-211 Truck
328	MGC-19 TTY Opns Center	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	439	M-35A2 Truck
355	MGC-22 TTY Terminal	1	481	PU-406 Power Unit
		1	478	M-200 Trailer
		1	493	M-348A2 Semi-Trailer Van
		1	446	M-52 Tractor

EQUIPMENT PACKAGES - POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
356	MGC-23 TTY Relay	1	481	PU-406 Power Unit
		1	478	M-200 Trailer
		1	493	M-348A2 Semitrler Van
		1	446	M-52 Tractor
420	MGC-32 TTY Opns Central	1	481	PU-406 Power Unit
		1	478	M-200 Trailer
		1	493	M-348A2 Semitrler Van
		1	446	M-52 Tractor
329	TGC-30 Central Office TTY	1	427	PU-628 Power Unit
		1	472	M-101 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck
330	TSC-58 Terminal Telegraph	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	438	M-211 Truck
444	MGC-17 Central Office TTY	1	426	PU-618 Power Unit
		1	474	M-103 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck

EQUIPMENT PACKAGES - POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
421	MSC-29 Terminal Telegraph	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	439	M-35A2 Truck
110	MTCC/ULMS	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	439	M-35A2 Truck
137	MTCC	1	431	PU-619 Power Unit
		1	474	M103 Trailer
		1	71	S-280 Shelter
		1	439	M-35A2 Truck
138	Data Communications Terminal	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	71	S-280 Shelter
		1	439	M-35A2 Truck

SINGLE CHANNEL RADIO

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
306	TSC-20 Communications Central	1	431	PU-619 Power Unit
		1	474	M-103 Trailer
		1	47	S-250 Shelter
		1	437	M-715 Truck

EQUIPMENT PACKAGES - POWER, SHELTERS, VEHICLES (CONT'D)

<u>KEY</u>	<u>NOMENCLATURE</u>	<u>QTY</u>	<u>KEY</u>	<u>NOMENCLATURE</u>
370	TSC-18 Communications Central	2	487	PU-495 Power Unit
		2	479	M-353 Trailer
		1	493	M-348A2 Semitrailer Van
		1	446	M-52 Tractor
384	GRC-142 Radio TTY Set	1	47	S-250 Shelter
		1	437	M-715 Truck
51	GRC-122 Radio TTY Set	1	47	S-250 Shelter
		1	437	M-715 Truck

APPENDIX F
EQUIPMENT AND FORCE MODEL OUTPUT FORMATS

EQUIPMENT LIST F-5 IS A LISTING OF THE INYACS OBJECTIVE SYSTEM WHICH IS DERIVED FROM THE MASTER EQUIPMENT FILE.

THE FOLLOWING INFORMATION IS FURNISHED:

1. KEY # - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
 2. NOMENCLATURE, ACRONYM, DESCRIPTION - EQUIPMENT IDENTIFICATION.
 3. BOIP # - BASIS OF ISSUE PLAN FOR FUTURE EQUIPMENT.
 4. LINE # - LINE-ALPHANERIC LINE ITEM NUMBER IDENTIFICATION OF A GENERIC NOMENCLATURE.
 5. SSN - STANDARD STUDY NUMBER - FUNDING NUMBER ASSIGNED TO APPROVED PROCUREMENT ITEMS.
 6. ACN - ACTION CONTROL NUMBER ASSIGNED TO TRACK ALL ACTIONS PERTAINING TO A PROGRAM.
 7. FUND YR - INITIAL FUNDING YEAR.
 8. IDC - INITIAL OPERATIONAL CAPABILITY - TIME WHEN EQUIPMENT AND TRAINED PERSONNEL CAN BE DEPLOYED.
- LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (00 MAR 3, 1981 00).

THIS REPORT IS AVAILABLE ONLY BY EQUIPMENT CATEGORY, BUT MAY BE SORTED BY ANY COLUMN WITHIN CATEGORY.

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SMD ACTION 790-3182/3671.

DATE 03/12/31

EQUIPMENT FILE FORCE MODEL: F5
BY KEY NUMBER

AIIHSP0077

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KEY # NOMENCLATURE ACronym DESCRIPTION DDIP # LINE # SSN ACN YR IDC REMARKS

MULTICHANNEL TRANSMISSION

KEY #	NOMENCLATURE	ACronym	DESCRIPTION	DDIP #	LINE #	SSN	ACN	YR	IDC	REMARKS
AA0001	TRC-174		RADIO REPEATER SET	790040	254160		35335	80	285	
AA0016	TRC-170(V3)		TAC DIGITAL TRPD INK				00000	00	N/A	
AA0015	TRC-170(V2)		TAC DIGITAL TRPD				00000	00	N/A	
AA0016	TSC-65	MCJS	M/C TACSAT SHF DBJ 36CH				14939	83	193	
AA0017	TSC-14	MCJS	M/C TACSAT SHF DBJ 72CH				14939	83	193	
AA0021		MSC	MOBILE SUB CENTRAL (MSE)				56190	85	488	
AA0025	GRC-103(V4)	BAND IV	RADIO SET				35325	77	N/A	
AA0052	TRC-173		RADIO TERMINAL SET	790041			35335	82	285	
AA0057	TRC-138		RADIO REPEATER SET (MOD)				35325	81	286	
AA0054	TRC-170(V1)		TAC DIGITAL TRPD 10KW				02787	83	286	
AA0035	TRC-178		RADIO TERM/RPTR SET				35335	79	286	
AA0164	TRC-175	SRWR	RADIO TERMINAL SET	790038	275573		21931	81	286	
AA0165	TRC-113(MOD)		RADIO REPEATER SET (DGM)				00000	00	N/A	
AA0174		MCPR	M/C CP RADIO (M4)	790164	256335	B10001	68842	80	386	
AA0230	GRC-134(V3)		RADIO SET (UNIVERSAL)				00000	77	N/A	
AA0265	GRC-134(V4)	SRWR	RADIO SET (SRWR MOD)				00000	80	N/A	
AA0399		PLRS	MASTER UNIT	750126	250151		23559	00	484	
AA0505	CV-2500		FREQ CONV							
AA0506	DA-437		DUMMY LOADS							

MULTIPLY

KEY #	NOMENCLATURE	ACronym	DESCRIPTION	DDIP #	LINE #	SSN	ACN	YR	IDC	REMARKS
AA0039	TD-1059	TDGM	TIME DIVISION DIGITAL MUX	690491	721130		13357	77	183	
AA0030	TSC-97		DATA MULTIPLEX SET	790197	220550		13357	79	N/A	
AA0060	TD-1219	HSPR	H/S PULSE RESTORER	770047	250543		21957	79	286	
AA0061	TU-1218	LSPR	L/S PULSE RESTORER	770046	250544		21957	79	286	
AA0062	MO-1026	GM	GROUP MDEM				21957	79	286	
AA0064	TU-1237	MG4	MASTER GP MUX				21957	79	286	
AA0073			TACSAT AJ/CVIL MDEM	780246	772048		22752	77	481	
AA0086	MO-1062	DT4	OPTICAL TRANS MDEM	790142	243695		23266	82	186	
AA0037	RI-1297	ORT	OPTICAL RPTR KATR	790144	263097	B37001	23266	82	185	
AA0120	TD-1234	RMC	RENTIE MUX COMBINER	770043	245684	B37101	21957	79	286	
AA0129	TU-1236	TG4	TNK GROUP MUX				21957	79	286	
AA0135			TACSAT AC DATA MDEM				23268	83	288	
AA0140	TS-3647	COJ	CABLE ORDERWIRE UNIT	770048	211774		21957	79	286	
AA0143	TD-1233	RLG4	RENTIE LOOP GROUP MUX	770040	245689		21957	81	286	
AA0151	MO-1024	HSCDM	HS CABLE DVR MDEM				21957	79	286	
AA0152	MO-1023	LSCDM	LS CABLE DVR MDEM				21957	79	286	
AA0153	MO-1025	RLGM-CD	RLGM-CABLE DVR MDEM				21957	79	286	
AA0270	C-10716	OCU 1	ORDERWIRE CNTRL U TYPE 1				52692	00	284	
AA0271	C-10717	OCU 2	ORDERWIRE CNTRL U TYPE 2				52500	00	284	
AA0464	TD-1235	L64	LOOP GROUP MUX							
AA0502	MO-1065	103 MDEM	DIGITAL DATA MDEM							

TACTICAL COMMUNICATIONS CONTROL FACILITIES

KEY #	NOMENCLATURE	ACronym	DESCRIPTION	DDIP #	LINE #	SSN	ACN	YR	IDC	REMARKS
AA0006	MSO-114	CSPE	TACSAT CONTROL CENTER				22752	77	479	
AA0056			COMM SYSTEM PLANNING ELEM							

EQUIPMENT SUMMARY BY FORCE F-5 (SUBJECTIVE SYSTEM) PROVIDES EQUIPMENT AND UNIT TOTALS BY ACTIVE ARMY,
NATIONAL GUARD, ARMY RESERVE AND TOTAL FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. KEY NUMBER - THE PERVAENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.

2. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.

3. ACT/EQ - TOTAL ACTIVE ARMY EQUIPMENT IN THE FORCE.

4. NG/EQ - TOTAL NATIONAL GUARD EQUIPMENT IN THE FORCE.

5. RES/EQ - TOTAL ARMY RESERVE EQUIPMENT IN THE FORCE.

6. TOT/EQ - TOTAL EQUIPMENT IN THE FORCE.

7. ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.

8. NG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.

9. RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.

10. TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (00 MAR 3, 1981 00).

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SING AUTVDN 790-3182/3671.

DATE 03/17/81

FORCE MODEL EQUIPMENT SUMMARY
331 AND COMPONENTS

A11MSP0097

PAGE

KEY N NOMENCLATURE/DESC

FORCE MODEL F-5 MULTICHANNEL TRANSMISSION

AA0001	TRC-174	RADIO REPEATER SET
AA0014	TRC-170(V3)	TAC DIGITAL TRPD 1KM
AA0015	TRC-170(V2)	TAC DIGITAL TRPD
AA0016	TSC-15	4/C TACSAT SHF DBJ 36CH
AA0017	TSC-1M	4/C TACSAT SHF DBJ 72CH
AA0021	MSC	MOBILE SUB CENTRAL (MSE)
AA0025	GRC-103(V4)	RADIO SET
AA0052	TRC-173	RADIO TERMINAL SET
AA0057	TRC-138	RADIO REPEATER SET (MDD)
AA0059	TRC-170(V1)	TAC DIGITAL TRPD 10KM
AA0065	TRC-179	RADIO TERMINAL SET
AA0144	TRC-175	RADIO TERMINAL SET
AA0155	TRC-113(V2)	RADIO REPEATER SET (DGA)
AA0174	MCPR	4/C CP RADIO (44W)
AA0230	GPC-144(V3)	RADIO SET (UNIVERSAL)
AA0245	GPC-144(V4)	RADIO SET (SRBR MOD)
AA0399	PLTS	MASTER UNIT
AA0505	CV-2500	FREQ CONV
AA0506	DA-637	DUMMY LOADS

FORCE MODEL F-5 MULTIPLEX

AA0029	TD-1069	TIME DIVISION DIGITAL MUX
AA0030	TSC-97	DATA MULTIPLEX SET
AA0050	TD-1219	4/S PULSE RESTORER
AA0051	TD-1218	L/S PULSE RESTORER
AA0052	MD-1026	GROUP MDE4
AA0054	TD-1237	MASTER GP MUX
AA0073	TACSAT AJ/CNTL MDEM	TACSAT AJ/CNTL MDEM
AA0135	MC-1062	OPTICAL TRANS MDEM
AA0137	R7-1297	OPTICAL RPTN XMR
AA0120	TD-1234	REMOTE MUX CONTAINER
AA0129	TD-1235	TNS GROUP MUX
AA0135	TACSAT MC DAMA MDEM	TACSAT MC DAMA MDEM
AA0150	TS-3647	CABLE ORDERWIRE UNIT
AA0153	TD-1233	REMOTE LOOP GROUP MUX
AA0151	MD-1024	4S CABLE OVR MDEM
AA0152	MD-1023	LS CABLE OVR MDEM
AA0153	MD-1025	RLGN-CABLE OVR MDEM
AA0270	C-10716	ORDERWIRE CNTL U TYPE 1
AA0271	C-10717	ORDERWIRE CNTL U TYPE 2
AA0454	TD-1235	LOOP GROUP MUX
AA0502	MD-1065	DIGITAL DATA MDEM

FORCE MODEL F-5 TACTICAL COMMUNICATIONS CONTROL FACILITIES

AA0006	MSJ-114	TACSAT CONTROL CENTER
AA0054	CS-E	COMM SYSTEM PLANNING ELEM
AA0058	TSJ-111(V1)	COMM MODAL CTRL ELEM
AA0065	MSC	CONTROL FACILITY CSCE/SC CONTROL FACILITY CSCE
AA0075	TV2-16	COMM SYS CTRL ELEM

EQUIPMENT = UNIT * QUANTITY

 *****ASSEMBLAGES*****
 ACT ARMY NAT GUARD RES ARMY TOT/EO
 ACT NAT RES

 ACT ARMY NAT GUARD RES ARMY TOT/EO
 ACT NAT RES

EQUIPMENT ASSEMBLAGES BY FORCE F-5 (OBJECTIVE SYSTEM) PROVIDES THE NUMBER OF ASSEMBLAGES, AMOUNT OF COMPONENTS PER ASSEMBLAGES, AND TOTALS OF COMPONENTS IN THE FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

- 1- ASBL KEY # THE PERMANENT VJ48R OF AN EQUIPMENT IN THE DATA BASE
- 2- COMP KEY # THE COMPONENT VJ43R IN THE DATA BASE.
- 3- NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
- 4- QUANT/ASBL - QUANTITY OF EACH COMPONENT PER ASSEMBLAGE.
- 5- ACT/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR ACTIVE ARMY IN THE FORCE.
- 6- NG/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR NATIONAL GUARD IN THE FORCE.
- 7- RES/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR RESERVE ARMY IN THE FORCE.
- 8- TOT/EQ - TOTAL ASSEMBLAGES AND COMPONENTS IN THE FORCE.
- 9- ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.
- 10- NG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.
- RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.
- TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (00 MAR 3,1981 00).

QUESTIONS SHOULD BE ADDRESSED TO USASC-SIND AUTODON 780-3182/3671.

DATE 03/17/81

EQUIPMENT ASSEMBLAGES BY FORCE

AIJHSP0093

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EQUIPMENT = UNIT * QUANTITY

*****ASSEMBLAGES*****

*****OF UNITS*****
ACT NAT RES TOTQUANT-
ASBL

KEY NO- KEY NO- NOMENCLATURE / DESC

**FORCE MODEL F-5a MULTICHANNEL TRANSMISSION

KEY NO-	KEY NO-	NOMENCLATURE / DESC	QUANT- ASBL	UNIT * QUANTITY	OF UNITS ACT NAT RES TOT
AA0001	TRC-174	RADIO REPEATER SET	003		
AA0025	GR-103 (V4)	RADIO SET	001		
AA0062	MD-1026	GROUP MODEN	001		
AA0071	S-280	SHELTER	001		
AA0090	KY-68	DIG SECURE TP	001		
AA0092	TA-312	TELEPHONE SET	001		
AA0109	KG-81	TRUNK ENCRYPT DEVICE	003		
AA0111	KY-58	SPEECH SEC EQUIP ARN	001		
AA0112	KG-34	DED L3JP ENCRYPT DEVICE	002		
AA0115	KY-13	KEY GUN	001		
AA0116	KY-15	NET CONTROL DEVICE	001		
AA0152	MD-1023	LS CABLE DVR MODEN	003		
AA0226	TRC-138 (PIP)	RADIO REPEATER SET	003		
AA0270	C-10716	ORDERWIRE CNTRL U TYPE 1	001		
AA0301	MD-1065	PR SUPPLY 25 VDC	003		
AA0502	HK-806	DIGITAL DATA MODEN	002		
AA0503	LS-147F	WAST EXTENSION KIT/MC	003		
AA0504	CV-2500	INTERCOM	001		
AA0505	DA-437	FREQ CTRY	001		
AA0506	H-182	DUMMY LOADS	002		
AA0570		HEADSET-MICROPHONE	001		
AA0572		FILL CABLE (CRYPTO)	001		
AA0014	TRC-170 (V3)	TAC DIGITAL TRPOD 1KW	001		
AA0062	MD-1026	GROUP MODEN	001		
AA0090	KY-68	DIG SECURE TP	002		
AA0109	KG-81	TRUNK ENCRYPT DEVICE	001		
AA0111	KY-58	SPEECH SEC EQUIP ARN	002		
AA0112	KG-84	DED L3JP ENCRYPT DEVICE	001		
AA0115	KY-13	KEY GUN	001		
AA0129	TD-1236	TNK GROUP MUX	001		
AA0152	MD-1023	LS CABLE DVR MODEN	001		
AA0464	TD-1235	LOOP GROUP MUX	002		
AA0572		FILL CABLE (CRYPTO)	001		
AA0015	TRC-170 (V2)	TAC DIGITAL TRPOD	001		
AA0062	MD-1026	GROUP MODEN	001		
AA0090	KY-68	DIG SECURE TP	002		
AA0109	KG-91	TRUNK ENCRYPT DEVICE	001		
AA0111	KY-58	SPEECH SEC EQUIP ARN	002		
AA0112	KG-84	DED L3JP ENCRYPT DEVICE	001		
AA0115	KY-13	KEY GUN	001		
AA0129	TD-1236	TNK GROUP MUX	001		
AA0152	MD-1023	LS CABLE DVR MODEN	001		
AA0464	TD-1235	LOOP GROUP MUX	002		
AA0572		FILL CABLE (CRYPTO)	001		
AA0052	TRC-173	RADIO TERMINAL SET	002		
AA0025	GR-103 (V4)	RADIO SET	002		
AA0062	MD-1026	GROUP MODEN	001		
AA0071	S-280	SHELTER	001		

COMPONENTS TO ASSEMBLAGES BY FORCE F-3 (SUBJECTIVE SYSTEM) EXTRACTS THE COMPONENTS OF ASSEMBLAGES AND SHOWS ALL THE ASSEMBLAGES OF WHICH THEY ARE A PART AND BY QUANTITY FOR THE ACTIVE ARMY, NATIONAL GUARD, ARMY RESERVE AND TOTAL FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. COMP REF - THE COMPONENT NUMBER IN THE DATA BASE.
2. ASBL REF - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE
3. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION -
4. QJAV/ASBL - QUANTITY OF EACH COMPONENT PER ASSEMBLAGE.
5. ACT/EO - TOTAL ASSEMBLAGES AND COMPONENTS FOR ACTIVE ARMY IN THE FORCE.
6. NG/EO - TOTAL ASSEMBLAGES AND COMPONENTS FOR NATIONAL GUARD IN THE FORCE.
7. RES/EO - TOTAL ASSEMBLAGES AND COMPONENTS FOR RESERVE ARMY IN THE FORCE.
8. TOT/EO - TOTAL ASSEMBLAGES AND COMPONENTS IN THE FORCE.
9. ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.
10. NG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.
- RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.
- TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) 100 MAR 3, 1981 **1.

QUESTIONS SHOULD BE ADDRESSED TO USASC-5143 ATTENTION 780-318273671.

END ITEM ASSOCIATED/ANCILLARY EQUIPMENT LIST BY FORCE

ITEM KEY NR	ASSOC KEY NR	NOMENCLATURE	ASSOC QUANT	EQUIP = UNIT QUANT			SELECTED FORCE		
				ACT	NG	RES	ACT	NG	TOT
AA0140		TS-3647 CABLE ORDERWIRE UNIT		300	250	200	6	4	12
	AA0090	B-5599 BATTERY	2	600	500	400			1500
	AA0091	H-182 HEADSET	1	300	250	200			750

EXAMPLE

THIS OUTPUT PROVIDES THE TOTAL END ITEMS, BOTH STAND ALONE AND AS PART OF ASSEMBLAGES WITHIN A FORCE MODEL OR SELECTED FORCE. THE AMOUNT OF ASSOCIATED AND/OR ANCILLARY ITEMS FOR THESE END ITEMS ARE SHOWN BY ACTIVE ARMY, NATIONAL GUARD, RESERVE AND TOTAL FORCE.

BDI FILE BY FORCE F-5 (OBJECTIVE SYSTEM) PROVIDES A LISTING OF ALL THE EQUIPMENT IN THE FORCE, THE AMOUNT IN EACH TIE, THE TOTALS OF EACH TIE, AND THE TOTALS OF EQUIPMENT IN THE FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.

2. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.

3. TDE NR / TDE NAME - UNIT IDENTIFICATION.

4. ED QUAN - AMOUNT OF EQUIPMENT PER EACH TIE.

5. ACT/ED - TOTAL ACTIVE ARMY EQUIPMENT IN THE FORCE.

6. NG/ED - TOTAL NATIONAL GUARD EQUIPMENT IN THE FORCE.

7. RES/ED - TOTAL ARMY RESERVE EQUIPMENT IN THE FORCE.

8. TOT/ED - TOTAL EQUIPMENT IN THE FORCE.

9. ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.

10. NG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.

11. RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.

12. TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) 100 MAR 3, 1981 00).

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SING AUTVDON 780-3182/3671.

DATE 03/15/81

FORCE MODEL 801

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KEY # VARIATION/DESCRIPTION

REFORCE MODEL F-500

TDE NAME

TDE #

EQ
QUANEQJIP = UNIT * QUANTITY
ACT/EQ NAT/EQ RES/EQ TOT/EQ ACT NAT RES TO

ATMSP0028

A00001 TRC-174 RADIO REPEATER SET

113034000
111734000
115154000
115154000
115174000
115174000
115055000
115035000
115124000SIG SPT CJ ASA-CE
SIG DPS CJ ADA
SIG BN AREA (1193)
HHC SIG BN TELECOM
CPT SIG TELECOM C
CJ TRANSMISSION
CJ SUPPORT
PLT FWD AREA6
6
29
2
9
1
5
3

TOTALS

A00002 ACS COM ASBL

170954000
171954000
172054000
172754000SQ AIR CAVALRY
SQ AIR CAVALRY
SQ AIR CAVALRY
SQ AIR CAVALRY2
2
2
2

TOTALS

A00006 MSQ-114 TACSAT CONTROL CENTE

0

TOTALS

A00008 ACR CP COM TRACK

170524000

HT RGT CAVALRY

2

TOTALS

A00011 ACR CP COM SPT TRAC

170524000

HT RGT CAVALRY

2

TOTALS

A00012 ACS CP COM TRACK

170534000
171054000SQ CAVALRY
SQ CAVALRY2
2

TOTALS

A00013 A/A BDE CP COM TRACK

170424000
370424000HHC BDE
HHC BDE2
2

TOTALS

A00014 TRC-1701V3 TAC DIGITAL TRPO IK

055155000
055154000
055175000
113574000
115055000
113014000B H4B PERSHING
BN H4B PERSHING
BN 3FY PERSHING
SIG LT TRPO C3
CJ TRANSMISSION
SPEC REQ6
6
1
16
2
4

EXAMPLE

TOE FILE BY FORCE F-5 (OBJECTIVE SYSTEM) PROVIDES A LISTING OF ALL THE TOES IN THE FORCE THAT CONTAIN THE SELECTED EQUIPMENT, THE EQUIPMENT AND QUANTITY IN EACH TOE, AND THE TOTALS OF EQUIPMENT IN THE FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. SRC / TOE / TOE NAME - UNIT IDENTIFICATION.
2. KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
3. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
4. EQ QUAN - AMOUNT OF EQUIPMENT PER EACH TOE.
5. ACT/EO - TOTAL ACTIVE ARMY EQUIPMENT IN THE FORCE.
6. NG/EO - TOTAL NATIONAL GUARD EQUIPMENT IN THE FORCE.
7. RES/EO - TOTAL ARMY RESERVE EQUIPMENT IN THE FORCE.
8. TOT/EO - TOTAL EQUIPMENT IN THE FORCE.
9. ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.
10. NG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.
11. RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.
12. TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (** MAR 3, 1981 **).

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SMD AUTODVN 780-3182/3671.

DATE 03/17/81

TOE # TOE NAME

FORCE MODEL TOE

EQUIPMENT - UNIT * QUANTITY
ACT/EO NAT/EO RES/EO TOT/EO

ACT NAT RES

PAGE 6

**FORCE MODEL F-5 **

NOTE: AN * IN THE DENOTES A COMPONENT

01137H*** CO ARMY

KEY #	NAME/CLATURE/DESCRIPTION	QUAN	EQ
AA0092	TA-312	10	TELEPHONE SET
AA0106	KY-57	0	SPEECH SECURITY EQUI
AA0111	KY-58	0	SPEECH SEC EQUIP ABN
AA0115	KYK-13	0	KEY GUN
AA0150		1	SECURE CONVERTER (1
AA0195	ARC(116V1)	20	RADIO SET AIR
AA0380	TSC-71	1	ACFT CONT CENTER

TOTALS

01165H*** BN ASLT SPT

KEY #	NAME/CLATURE/DESCRIPTION	QUAN	EQ
AA0041	SB-3855	1	AUTO SWBD (60L)
AA0043	SB-22	1	SWBD TELEPHONE MANUA
AA0082		14	REMOTE CONTROL
AA0092	TA-312	43	TELEPHONE SET
AA0106	KY-57	0	SPEECH SECURITY EQUI
AA0111	KY-58	0	SPEECH SEC EQUIP ABN
AA0112	KC-34	1	DED LOOP ENCPY DEVIC
AA0115	KYK-13	0	KEY GUN
AA0134	UXC-4	1	TAC DDTL FACSIMILE
AA0141	TA-954	20	DIG VBY-SEC TP
AA0183		1	TACSAT S/C TERMINAL
AA0192	GRC(116V2)	6	RADIO SET VEHICLE
AA0193	GRC(116V5)	9	RADIO SET VEHICLE
AA0194	GRC(116V4)	5	RADIO SET VEHICLE
AA0195	ARC(116V1)	100	RADIO SET AIR
AA0366	UIC-1	1	INTERCOM SET

TOTALS

01207H*** J AIR TRAFFI

KEY #	NAME/CLATURE/DESCRIPTION	QUAN	EQ
AA0043	SB-22	1	SWBD TELEPHONE MANUA
AA0082		1	REMOTE CONTROL
AA0092	TA-312	25	TELEPHONE SET
AA0106	KY-57	0	SPEECH SECURITY EQUI
AA0111	KY-58	0	SPEECH SEC EQUIP ABN
AA0112	KC-34	28	DED LOOP ENCPY DEVIC
AA0115	KYK-13	0	KEY GUN
AA0150		1	SECURE CONVERTER (1
AA0191	GRC(116V1)	18	RADIO SET MANPACK
AA0192	GRC(116V2)	14	RADIO SET VEHICLE
AA0193	GRC(116V5)	2	RADIO SET VEHICLE
AA0195	ARC(116V1)	9	RADIO SET AIR
AA0379	TSC-61	9	FLIGHT COORD CENTER

TOTALS

01252H*** 4MC GRP COMB

KEY #	NAME/CLATURE/DESCRIPTION	QUAN	EQ
AA0042	SB-3855	1	AUTO SWBD (60L)
AA0043	SB-22	2	SWBD TELEPHONE MANUA

TOTALS

EXAMPLE

APPENDIX G. DRAFT ARMY REGULATION 15-23

ARMY REGULATION

No. 15-23

HEADQUARTERS

DEPARTMENT OF THE ARMY

WASHINGTON, D.C. 1981

BOARDS, COMMISSIONS, AND COMMITTEES

INTEGRATED TACTICAL COMMUNICATIONS SYSTEM (INTACS)

STEERING COMMITTEE AND SYSTEMS INTEGRATION MANAGEMENT

Effective _____

Local supplementation of this regulation is permitted but not required.

1. Purpose. This regulation establishes the Integrated Tactical Communications System (INTACS) Steering Committee as a continuing committee to guide the INTACS Implementation and Systems Integration Management.

2. Background. The INTACS Study identified an objective tactical communications system which will best meet the needs of the Army in the time-frame 1976-1997. With the approval of the study implementation, the INTACS Study Advisory Group (SAG) now transitions into a Steering Committee to guide the INTACS Implementation and Systems Integration Management.

INTACS is not a hardware system. INTACS is the Army's first comprehensive flexible, cost-effective master plan that merges into a multi-billion dollar system the organizational structure, doctrine and more than 50 major end items of equipment. This inventory and developmental hardware comes from several major sources. Some examples are: the Joint Tactical Communications Office (TRI-TAC); Satellite Communications Agency (SATCOMA); Project Manager, Multi-Service Communications System (PM, MSCS); Army Tactical Communications System (ATACS); Project Manager, Single Channel Ground and Airborne Radio Systems (SINCGARS); and the National Security Agency (NSA). The complexities involved in ensuring that hardware and personnel are

fielded in the proper mix and at the proper time precludes INTACS Implementation and Integration by exclusive use of the staff action process.

3. Mission. a. The INTACS Steering Committee and the Systems Integration Management Office will oversee the implementation and integration progress of INTACS and provide guidance to the appropriate agencies in response to future changes in funding levels, doctrine requirements, and equipment development programs. Overall guidance will be provided to the agencies listed below, and to others as required, to ensure that timely inputs are received by the Systems Integration Management Office and its automated programs.

b. The U.S. Army Signal Center will provide the Transition Plan for continuing operation of INTACS implementation and integration utilizing the SIMO data bases and operational programs. The flow process for the information inputs and outputs to accomplish this operation is shown in Figure 1.

4. SIMO Automated Programs (formerly AIIMS) and Data Base. The INTACS Study established the requirement for the SIMO Data Base as a means to manage the myriad actions required during the transition to the objective system. The SIMO Data Base is a system of automated data bases and coordination requirements of all agencies concerned with INTACS, Transition and Integration and provides meaningful output summaries and schedules to guide further actions. To keep all data current, periodic inputs are required from the agencies shown:

o Budget (Actual and Projected)	DA Staff
o Program Objective Memorandum (POM)	DA Staff
o DA Master Priority Listing (DAMPL)	DA Staff
o Equipment Costs	DA Staff
o Army Acquisition Objectives (AAO)	DA Staff
o RDAC Sheets	DA Staff
o Initial Operational Capability (IOC)	DARCOM
o Equipment Production Rates	DARCOM
o TOE and BOIP	TRADOC
o Force Model Equipment Lists	SIG CEN

AD-A127 620

INTEGRATED TACTICAL COMMUNICATIONS SYSTEM (INTACS)
TRANSITION PLAN(U) MARTIN MARIETTA DENVER AEROSPACE CO
31 MAR 81 DAAK21-79-C-0161

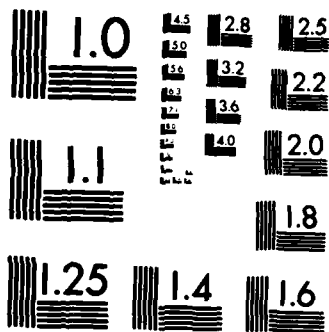
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UNCLASSIFIED

F/G 17/2

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

o Current Issue Status	DESCOM
o Issues, Turn-Ins, Redistribution	DESCOM
o Annual Procurement Lists	DA and SIG CEN
o Training Requirements Per Equipment	SIG CEN (QQPRI)
o MOS Course Dates by Student Quantity	SIG CEN
o Attrition Factors by MOS	SIG CEN
o MOS and Personnel Quantity Per Equipment	SIG CEN (QQPRI)
o MOS Course Lengths	SIG CEN
o Personnel Shipping Time To Unit	DA Staff
o Logistics Lead Time For Equipment	DA Staff ,
o Production Schedules	DARCOM

In turn, SIMO will provide output to the appropriate agencies concerning equipment and force summaries, current force status, equipment procurement lists, predicted year by year procurement for the objective system, fielding schedules, and other schedules and extracts (as required) by electronic and/or regular mail.

5. Composition. a. The INTACS Steering Committee will consist of representatives in the grade of O6, civilian equivalent, or higher, from the following:

(1) Office of the Assistant Chief of Staff for Automation and Communication. Provides the chairman for the INTACS Steering Committee.

(2) Office of the Deputy Chief of Staff for Operations and Plans (ODCSOPS).

(3) Office of the Deputy Under Secretary of the Army (Operations Research) (ODUSA-OR).

(4) Office of the Deputy Chief of Staff for Personnel (ODCSPER).

(5) Office of the Deputy Chief of Staff for Logistics (ODCSLOG).

(6) Office of the Deputy Chief of Staff for Research, Development and Acquisition (ODCSRDA).

(7) Office of the Comptroller of the Army (OCA).

(8) Office Chief of Staff, United States Army (Management Information, Systems Directorate) (OCSA (MISD)).

(9) Office of the Assistant Chief of Staff for Intelligence (OACSI).

(10) US Army Material Development and Readiness Command (DARCOM).

(11) US Army Intelligence and Security Command (INSCOM).

(12) US Army Communications Command (USACC).

(13) US Army Forces Command (FORSCOM).

(14) US Army Training and Doctrine Command (TRADOC).

b. A non-voting recorder, who will prepare agenda items for each meeting and publish and distribute minutes of committee meetings, will be provided by the Office of the Assistant Chief of Staff for Automation and Communications (ACSAC).

c. The chairman may invite representatives from other DOD agencies to participate as non-voting observers.

5. Direction and Control. a. The committee will meet at the call of the chairman, Assistant Chief of Staff for Automation and Communications (ACSAC).

b. The chairman will solicit from the members, items for the agenda of each meeting.

c. The chairman may convene working sessions of the committee, as required.

d. Agencies/Commands cited in paragraph 4a will designate a primary and alternate member to the committee and provide their names and telephone numbers to ACSAC, ATTN: DAAC-SI within ten working days after a receipt of this regulation.

6. Administrative Support a. All administrative support (space, clerical, and equipment) will be provided by the agency/Command hosting the meeting.

b. Funds for travel, per diem, and other expenses will be provided by the parent organization of the representative.

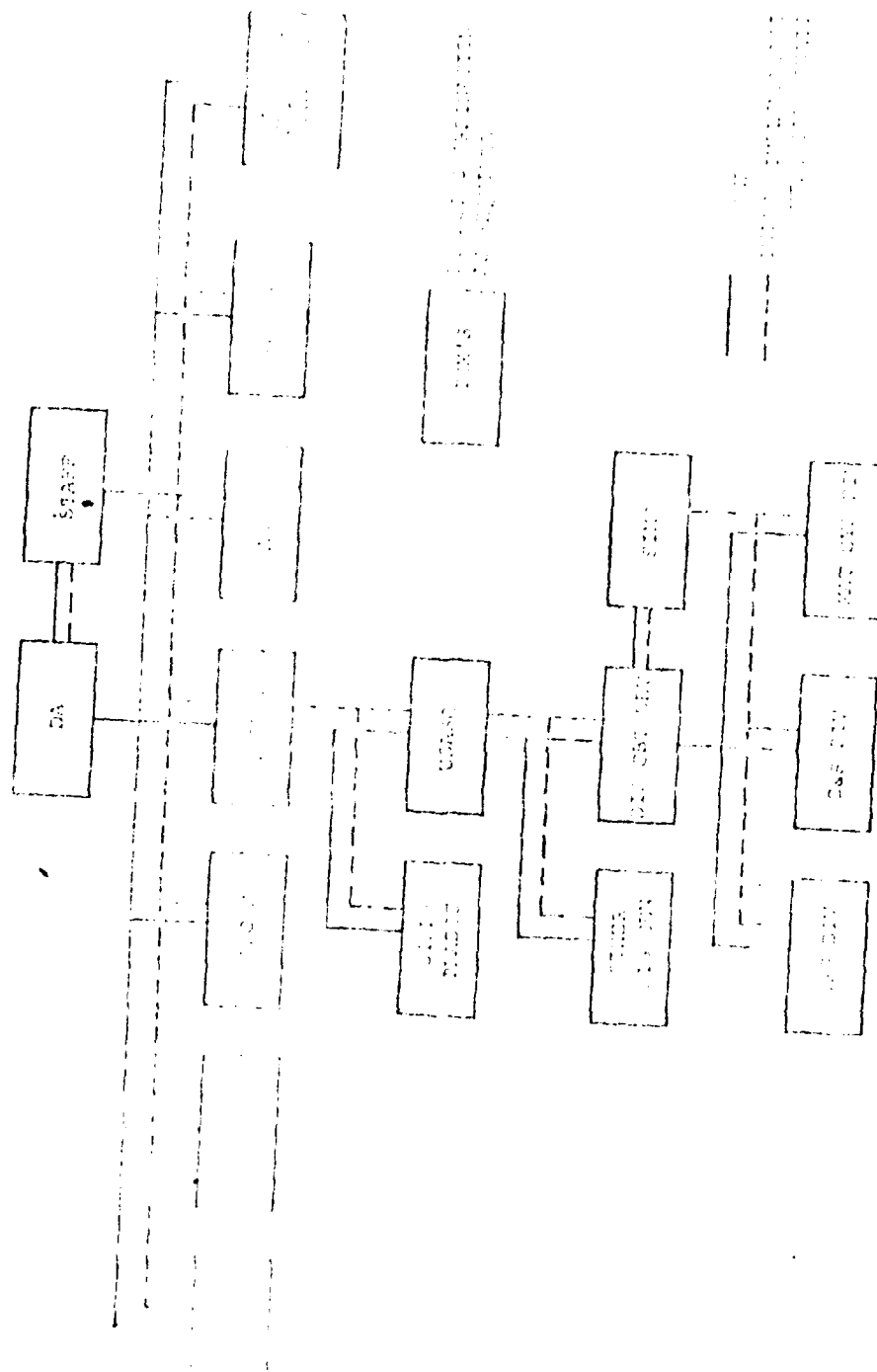


Figure 1: INMAG Information and Implementation Division

END

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