Jeff Berliner 72

SYSTEM PLANNING MANUAL
SPM DS 143-87
1 APRIL 1987

JOINT DATA SYSTEMS SUPPORT CENTER

WORLDWIDE MILITARY COMMAND AND CONTROL SYSTEM

WWMCCS DOCUMENTATION
PROJECT NO. J7204

JOINT OPERATION PLANNING SYSTEM(JOPS) TIME PHASED FORCE DEPLOYMENT DATA (TPFDD) AND RELATED FILES

DATA BASE SPECIFICATION

SYSTEM PLANNING MANUAL
SPM DS 143-87
1 APRIL 1987

JOINT DATA SYSTEMS SUPPORT CENTER

WORLDWIDE MILITARY COMMAND AND CONTROL SYSTEM

WWMCCS DOCUMENTATION
PROJECT NO. J7204

JOINT OPERATION PLANNING SYSTEM(JOPS) TIME PHASED FORCE DEPLOYMENT DATA (TPFDD) AND RELATED FILES

DATA BASE SPECIFICATION

JOINT DATA SYSTEMS SUPPORT CENTER

System Planning Manual SPM DS 143-87

1 April 1987

JOINT OPERATION PLANNING SYSTEM (JOPS) TIME PHASED FORCE DEPLOYMENT DATA (TPFDD) AND RELATED FILES

Data Base Specification

WWMCCS Documentation Project J7204

SUBMITTED BY:

Thomas K. Barr

THOMAS K. BARR
Project Officer

APPROVED BY:

Thomas R. Epperson

THOMAS R. EPPERSON
Deputy Director
for WWMCS ADP

ACKNOWLEDGMENT

This Data Base Specification manual is the primary document defining the Time Phased Force Deployment Data (TPFDD) data base structure and related reference files for the Joint Operation Planning System (JOPS) ADP System. It is written for ADP personnel who have the responsibility of producing application programs that interact with the data files described herein. Users of this document with a need for additional information may contact Thomas K. Barr or William R. Curtis at Autovon 225-1092/5209, Commercial 695-1092/5209, or via WIN Mail to DJ9JJOPS at host NMCC.

CONTENTS

ILLUSTRATIONS

TABLES

ABSTRACT

This Data Base Specification Manual contains detailed information on the record types, record formats, and data element definitions for the data files which support the Time Phased Force Deployment Data (TPFDD) Data Base of the Joint Operation Planning System (JOPS) ADP System. The files described herein are those which support data input to a TPFDD and the TFE Control File which uses TPFDD input for operation plan transportation feasibility analysis. This document is prepared for the specific use of application programmers. Information herein may also be of value to functional planners with a detailed understanding of JOPS III data processing applications.

This manual supersedes SPM DS 143-83, 1 March 1983.

SECTION 1. GENERAL

1.1 Purpose of the Data Base Specification

The purpose of the data base specification is to describe the storage allocation and organization of the data files which contain information that contribute to the processing of Time Phased Force Deployment Data (TPFDD) and reference file data for the Joint Operation Planning System (JOPS) ADP System. This document provides the basic design data necessary for the construction of the system files, tables, dictionaries, and directories.

1.2 Project References

The following documents contain additional reference material which is applicable to this manual:

a. Joint Chiefs of Staff, Joint Operation Planning System, Volume I (Deliberate Planning Procedures).

b. Joint Chiefs of Staff, Joint Operation Planning System, Volume II (Supplementary Planning Guidance).

c. Joint Chiefs of Staff, Joint Operation Planning System, Volume III (ADP Support).

d. Joint Chiefs of Staff, Joint Operation Planning System, Volume IV (Crisis Action System).

e. Joint Chiefs of Staff, Joint Reporting Structure, Joint Reports, Joint Operation Planning System (JOPS), JOPS Reporting System (JOPSREP), JCS Pub 6, Vol II, Part 11, Chapter 1.

f. Joint Chiefs of Staff, Joint Reporting Structure, Joint Reports, Joint Operation Planning System (JOPS), Type Unit Equipment Detail Report (TEDREP), JCS Pub 6, Vol II, Part 11, Chapter 2.

g. Joint Chiefs of Staff, Joint Reporting Structure, Joint Reports, Joint Operation Planning System (JOPS), Transportation Assets Report (ASSETSREP), JCS Pub 6, Vol II, Part 11, Chapter 3.

h. Joint Chiefs of Staff, Joint Reporting Structure, Joint Reports, Joint Operation Planning System (JOPS), Characteristics of Transportation Resources Report (CHSTRREP), JCS Pub 6, Vol II, Part 11, Chapter 4.

i. Joint Chiefs of Staff, Joint Reporting Structure, Joint Reports, Joint Operation Planning System (JOPS), Aerial Ports and Air Operating Bases Report (APORTSREP), JCS Pub 6, Vol II, Part 11, Chapter 5.

j. Joint Chiefs of Staff, Joint Reporting Structure, Joint Reports, Joint Operation Planning System (JOPS), Port Characteristics Report (PORTSREP), JCS Pub 6, Vol II, Part 11, Chapter 6.

k. Joint Chiefs of Staff, Joint Reporting Structure, Joint Reports, Joint Operation Planning System (JOPS), Logistic Factors Report (LOGFACREP), JCS Pub 6, Vol II, Part 11, Chapter 8.

l. Joint Chiefs of Staff, Joint Reporting Structure, Joint Reports, Joint Operation Planning System (JOPS), Type Unit Characteristics Report (TUCHAREP), JCS Pub 6, Vol II, Part 11, Chapter 9.

m. Joint Chiefs of Staff, Joint Reporting Structure, Joint Reports, General Use/Miscellaneous, Specified Geolocation Code Request (GEOREQ), JCS Pub 6, Vol II, Part 14, Chapter 1.

n. Joint Data Systems Support Center, Joint Operation Planning System (JOPS) III, Force Requirements Generator (FRG), Computer System Manual Number CSM UM 200-85.

o. Joint Data Systems Support Center, Joint Operation Planning System (JOPS) III, Reference Files and File Paging (RFFP), Computer System Manual Number CSM UM 297-85.

p. Joint Data Systems Support Center, Joint Operation Planning System (JOPS), JOPS III System Monitor (SM), Computer System Manual Number CSM UM 238-85.

q. Joint Data Systems Support Center, Joint Operation Planning System (JOPS) III, Transportation Feasibility Estimator (TFE), Computer System Manual Number CSM UM 196-86.

r. Joint Data Systems Support Center, Joint Operation Planning System (JOPS) III, Movement Requirements Generator (MRG), Computer System Manual Number CSM UM 199-84.

s. Joint Data Systems Support Center, Joint Operation Planning System (JOPS) III, Medical Planning Module (MPM), Computer System Manual Number CSM UM 231-84.

t. Joint Data Systems Support Center, Joint Operation Planning System (JOPS) III, Force Module Subsystem (FMS), Computer System Manual Number CSM UM 290-86.

u. Joint Data Systems Support Center, Joint Operation Planning System (JOPS) III, Logistics Capability Estimator (LCE), Computer System Manual Number CSM UM 302-86.

v. Department of Defense Standard, Automated Data Systems (ADS) Documentation, DOD-STD-7935.

w. Joint Data Systems Support Center, Joint Operation Planning System (JOPS) ADP, Software Installation Procedures, 1 March 1987.

1.3 Terms and Abbreviations

The following terms and abbreviations are used in this manual:

TERM	MEANING
ADP	Automated Data Processing
AFSC	Air Force Speciality Code
ALD	Available to Load Date
BPI	Bits Per Inch
CBBLS	Hundreds of Barrels
CIN	Cargo Increment Number
CINC	Commander in Chief
COBOL	Common Business Oriented Language
COL	Column
CRT	Cathode Ray Tube
CSM	Computer System Manual
DEPREP	Deployment Report
DEPSOF	Deployment Sequencing Order File
DEST	Destination
DOD	Department of Defense
DS	Data Base Specification
EAD	Earliest Arrival Date
EDD	Earliest Delivery Date to POD
EIC	Equipment Identification Code
EUSA	Eighth United States Army
FAC	Functional Account Code
FAD	Feasible Arrival Date
FIC	Force Indicator Code
FM	Force Module
FRN	Force Requirement Number
FRG	Force Requirements Generator
GEOFILE	Specified Geographic Locations File
GEOLOC	Geographic Location
GEOREQ	Specified Geolocation Code Request
H6000	Honeywell 6000 Series Computer System
INST	Installation
INTERMED	Intermediate
ISP	Indexed Sequential Processor
JCS	Joint Chiefs of Staff
JDSSC	Joint Data Systems Support Center
JOPS	Joint Operation Planning System
JOPS III	Joint Operation Planning System ADP Support
JOPSREP	Joint Operation Planning System Reporting System
JRS	Joint Reporting Structure
LAD	Latest Arrival Date
LCE	Logistics Capability Estimator
LLINKS	Little Links
MACE	Military Airlift Capability Estimator
MPM	Medical Planning Module
MRG	Movement Requirements Generator
MSC	Military Sealift Command
MT	Measurement Tons
MTMC	Military Traffic Management Command

TERM	MEANING
NAT	Non-Air Transportable
NBR	Number
OM	Computer Operation Manual
ONLSOF	Online Sequencing Order File
OPLAN	Operation Plan
PAX	Passengers
PIC	Parent Indicator Code
PIN	Personnel Increment Number
POD	Port of Debarkation
POE	Port of Embarkation
POL	Petroleum, Oil, and Lubricants
POS	Port of Support
PRMFL	Permanent File
PUB	Publication
RDD	Required Delivery Date
REF	Reference
RLD	Ready to Load Date
SM	System Monitor
SPM	System Planning Manual
SRF	Summary Reference File
ST	Short Tons
TEDREP	Type Unit Equipment Detail Report
TFE	Transportation Feasibility Estimator
TOA	Transportation Operating Agency
TPFDD	Time Phased Force Deployment Data
TSS	Timesharing System
TUCHA	Type Unit Characteristics File
TUCHAREP	Type Unit Characteristics Report
TUDET	Type Unit Equipment Detail File
UIC	Unit Identification Code
ULC	Unit Level Code
ULN	Unit Line Number
UM	Users Manual
UNITREP	Unit Status and Identity Report
UTC	Unit Type Code
VOL	Volume
USAF	United States Air Force
USARJ	United States Army, Japan
USMC	United States Marine Corps
WWMCCS	Worldwide Military Command and Control System

1.4 Security and Privacy

The computer programs which use this specification are UNCLASSIFIED. The classification of the output produced by this system is a function of the classification of the Operation Plan (OPLAN) data processed and the use of the JOPS reference files which are classified SECRET.

SECTION 2. DATA BASE IDENTIFICATION AND DESCRIPTION

2.1 Data Base Identification

The Joint Operation Planning System encompasses a number of data base files and reference files which support the operations planning process. The primary data base is constituted by the Time Phased Force Deployment Data File (TPFDD) and the Summary Reference File (SRF). These files are integrally supported by the Type Unit Characteristics File (TUCHA) file. Additionally, the Specified Geolocation File (GEOFILE) is required to support TPFDD and SRF input. The Type Unit Equipment Detail File (TUDET) is used in conjunction with the TUCHA file when equipment identification codes are processed. These files are the minimum required to support a Time Phased Force Deployment Data (TPFDD) data base. Additional reference files are used in analysis and evaluation of operation plans.

2.1.1 Primary Operations Planning Data Base. The primary JOPS data base files are summarized below and defined in detail in appendices provided with this document. File relationships are depicted in figure 2-1.

a. Time-Phased Force Deployment Data (TPFDD) File. The TPFDD file contains the force and nonunit (cargo and personnel) requirements of an OPLAN created by JOPS III modules. As the force list is being constructed, planning factors from reference files and user inputs are used to produce TPFDD data. The sequence of events and the use made of the various planning files and modules is controlled by the JOPS user. The TPFDD coupled with the SRF becomes a detailed description of a force list and nonunit-related requirements. Additional information is provided in appendix A.

b. Summary Reference File (SRF). SRF is the major repository for summarized or detailed information relating to specific records in the TPFDD file or other general information relating to the specific OPLAN. All information (title, description, and indexes) relating to any OPLAN-dependent force modules are retained in this file. Additional information is provided in appendix B.

c. Online Sequencing Order File (ONLSOF). ONLSOF is an Indexed Sequential Processor Control File which guides the order that records in the TPFDD file are to be accessed. Additional information is provided in appendix C.

d. Deployment Sequencing Order File (DEPSOF). DEPSOF is an Indexed Sequential Processor Control File which guides the order that records in the TPFDD file are to be accessed. Additional information is provided in appendix C.

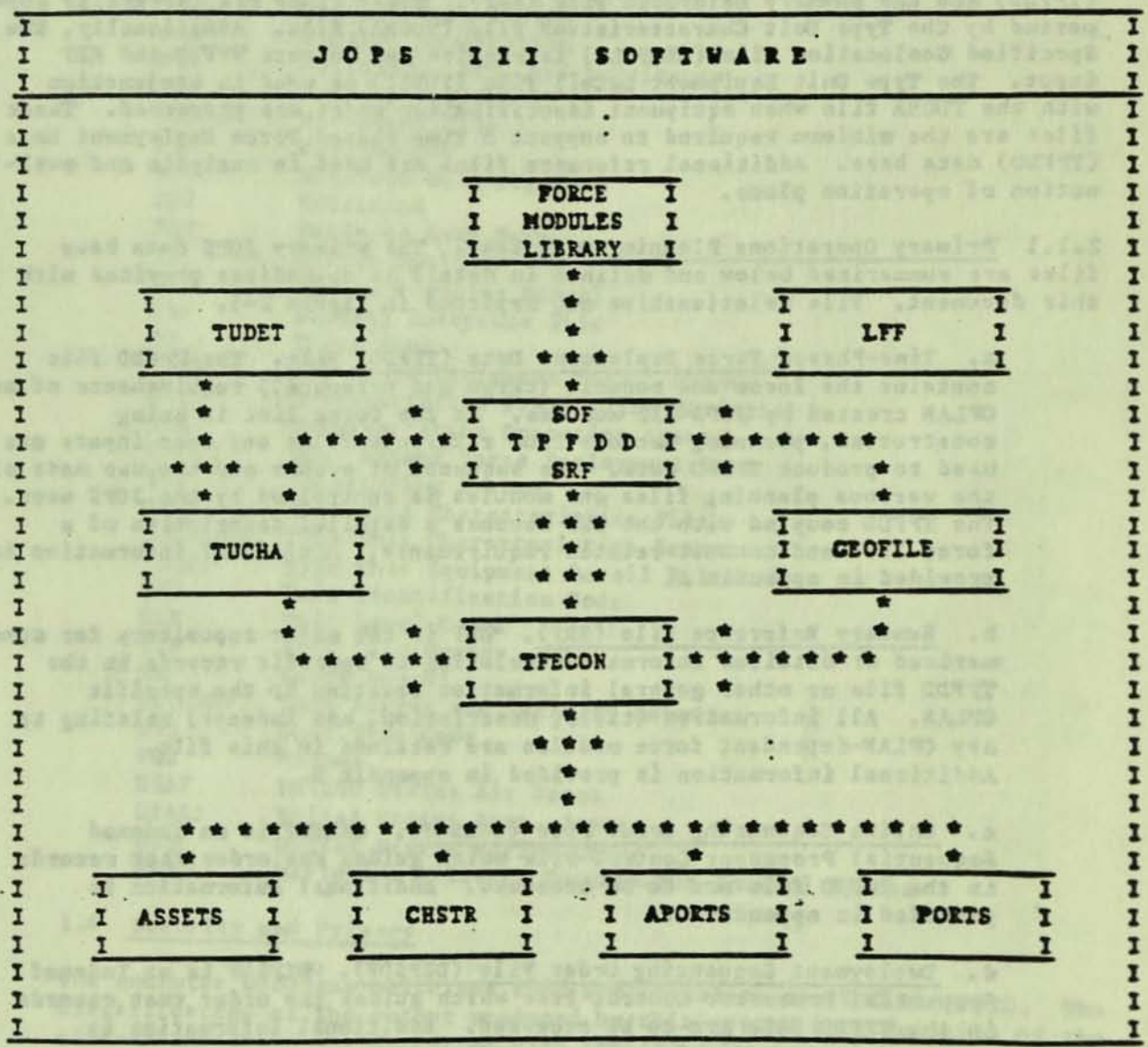

Figure 2-1. Data Base Files

e. Type Unit Characteristics (TUCHA) File. The TUCHA file contains Unit Type Codes (UTCs) and related data to assist in developing force movement requirements for operation plans. UTCs are standard coded representations of logically similar kinds of military organizations. TUCHA is used to register, maintain and validate UTCs, and to provide movement characteristics data for all UTCs which are deployable, are of fixed composition, and require common user transportation support. Movement data include such items as number of personnel requiring transportation and the weight, cube, and square feet of the various cargo categories that may accompany a unit. Input requirements for the TUCHA file are governed by the Joint Reporting Structure (JRS), Type Unit Characteristics Report (TUCHAREP). Data are submitted for TUCHA processing whenever it is necessary to register a UTC or add, change, or delete information pertaining to a type unit. Additional information is provided in appendix D.

f. Type Unit Equipment Detail (TUDET) File. The TUDET file supports the TUCHA system through its use to validate Equipment Identification Codes (EICs) and to provide data for TUCHA cargo category detail records. Physical characteristics for certain types of unit equipment are contained in the TUDET file. This equipment includes non-palletized wheeled and tracked vehicles, non-selfdeployable aircraft which are uncrated, floating craft, hazardous cargo, and any item greater than 35 feet in any dimension. Input requirements for the TUDET file are governed by the JRS, Type Unit Equipment Detail Report (TEDREP). Additional information is provided in appendix E.

g. Specified Geographic Locations File (GEOFILE). GEOFILE provides appropriate location information (e.g., point name, country/state code, installation type code, coordinates, etc.) for all registered geolocation codes. GEOFILE is used to validate geolocation codes used in JOPS and to provide expanded information for displays and reports. Additional information is provided in appendix F.

2.1.2 TFE Control File. This is an OPLAN-unique data base which is used to pass data and parameters between modules in the TFE system. Modules T04 and T10 can initialize this file with TFE movement requirements. Additionally, Module T10 initializes matrices for sea movement requirements when the generate option is executed and accomplishes aggregation when the channel option is selected. Subsequent TFE modules utilize the data currently residing on the file and progressively append additional data as appropriate. Module T11 adds calculated distances. Port characteristics are added by module T13. Module T14 adds aircraft data and module T15 adds ship data. The TFE Control file is input to the Airlift and Sealift models which append resulting simulation data to the file for report production. This file is a temporary data base which is saved to tape and reloaded using JOPS III module F60. It must be available on magnetic tape for input to the Airlift and Sealift models. Additional information is provided in appendix G.

2.1.3 Other JOPS III Files. The following files are used in JOPS III during operation plan analysis and evaluation.

a. Aerial Ports and Air Operating Bases (APORTS) File. The APORTS file provides an automated source of reference material on airfield installations (minimum runway 2,600 feet and LCN of 37 or greater) throughout the Free World. APORTS contains information on physical and operating characteristics of reportable airfields. Airfield characteristics include number of aircraft arrivals and departures, parking, and reception capability; apron information; throughput for passengers and cargo as computed from calculated reception, reported clearance, and discharge capabilities; and remarks as input by site-unique programs. Input requirements for the APORTS file are governed by the Joint Reporting Structure (JRS), Aerial Ports and Air Operating Bases Report (APORTSREP).

b. Transportation Assets (ASSETS) File. The ASSETS file provides an automated source of reference material on the availability of strategic transportation resources in accordance with the Joint Strategic Capabilities Plan (JSCP). ASSETS contains time-phased availability of common carrier airlift and sealift resources which can be used in the deployment aspects of operation planning. ASSETS data include operation planning information for total aircraft resources and their time-phased availability by geographic location. Input requirements for the ASSETS file are governed by the JRS, Transportation ASSETS Report (ASSETSREP).

c. Characteristics of Strategic Transportation Resources (CHSTR) File. The CHSTR file provides an automated source of reference material on the characteristics of strategic transportation resources. This file contains physical and operating characteristics of aircraft and ships used in operation planning to transport military units, cargo, and/or personnel. CHSTR data discretely identify the characteristics of aircraft and ships for transportation planning. Essential elements for aircraft are speed, range, load and unload time for passengers and cargo, capacity for passengers and cargo (short tons), and utilization rates. Data for ships include loaded and unloaded speed, length, beam, draft, load and unload time, discharge mode, passenger and/or cargo capacity, and landing craft embarked. Input requirements for the CHSTR file are governed by the JRS, Characteristics of Strategic Transportation Resources Report (CHSTRREP).

d. Logistic Factors File (LFF). LFF provides users with Service approved resupply and critical item/essential sustainment item (ESI) planning factors for use in the development of joint operation plans. The factors as adjusted by the planner are for use by the Movement Requirement Generator (MRG) and Logistics Capability Estimator (LCE). Factors may be varied according to theater of operation. These are heavy, moderate, light, reserve and forces that are not operationally employed (noncommitted). Resupply factors may be provided as consumption rates specified by pounds-per-man/per-day, or Unit Type Code (UTC). ESI may be provided by pounds-per-man/per-day, UTC or by capabilities apportioned to the CINC or the Services and DLA. Input requirements for LFF are governed by the JRS, Logistic Factors File Report (LOGFACREP).

e. Port Characteristics (PORTS) File. The PORTS file provides an automated source of reference material on seaports of the Free World. PORTS contains information on the physical and operating characteristics of seaports. Data include port description, harbor description, wharf description, berth data, throughput capacity, channel data, anchorage protection, storage capacity, mechanical handling equipment, and remarks. Input requirements for the PORTS file are governed by the JRS, Port Characteristics Report (PORTSREP).

f. Standard Distance File (SDF). The SDF contains route distance for both air and sea routes used in deployment operations. SDF contents are unique to each user site.

g. T15 Ship Availability File (T15SHP). This file may be built prior to execution of the TPE ship selection process and used as the source of ship class, quantity, and availability data for Sealift model simulation.

h. Force Module Library Time Phased Force Deployment Data File. This file contains description, routing, and aggregated cargo movement characteristics of forces contained in a particular library of force modules (e.g., Service Module Library). It also contains any nonunit-related sustainment (both cargo and personnel) that is included to support the forces which are defined in the library.

i. Force Module Library Sequencing Order File. This is an ISP control file that is automatically generated by the FMS software. This file guides the order that records are retrieved from the Force Module Library Time Phased Force Deployment Data File.

j. Force Module Library Summary Reference File. This file is a major repository for summarized or detailed information relating to specific records in the Force Module Library Time Phased Force Deployment Data File or other general information relating to the specific library. All information (title, description, and indexes) relating to force modules within the Force Module Library are retained in this file.

2.1.4 System Using the Data Base. The data files referenced in this data base specification are used by the Joint Operation Planning System ADP System (JOPS III) and several other ADP systems in the WWMCCS Joint Deployment Community.

2.1.5 Effective Dates. This data base specification supersedes SPM DS 143-83, 1 March 1983. The major difference is the addition of two new data elements to the TPFDD force record, the addition of aggregated nonunit cargo records to the SRF, the deletion of F40 records from the SRF, and the addition of the TPE Control File for documentation purposes. The specifications contained in this manual are currently in effect.

2.1.6 Storage Requirements. All the data files described in this manual and the ADP programs within JOPS III that are used to process OPLANs normally reside on disk storage media for the H6000 series computer system. The JOPS III Program Files, TDCHA, TUDET, and GEOFILE must reside as H6000 permanent files (PRMFL). OPLAN dependent data files (ONLSOF, DEPSOF, TPFDD, and SRF) are normally processed in temporary disk file space, but may also be processed in PRMFL space. The JOPS III software provides programs which will save/restore the OPLAN dependent files to/from magnetic tape storage media.

2.1.7 Physical Description of Data Base Files. A description of the physical characteristics of each data base file follows:

a. Time Phased Force Deployment Data File (TPFDD). TPFDD contains description, routing, and aggregated cargo movement characteristics of forces defined for a specific OPLAN and the nonunit related sustainment (cargo and personnel) necessary to support the Deployed forces for the duration of the OPLAN. It is a random structured file, and its storage media is disk. the data file name is TPFDD, and the H6000 file code designation is "JT". Storage requirement for TPFDD is variable according to the size of the OPLAN being processed. The TPFDD data records are variable in length with the maximum record size being 384 characters or 64 H6000 words. TPFDD record types are described in appendix A.

b. Summary Reference File (SRF). SRF is a major repository for summarized or detailed information relating to specific records in the TPFDD file or other general information relating to the specific OPLAN. It is an ISP structured file, an its storage media is disk. The ISP data file name is SRFD, and the H6000 file code designation is "JQ". The ISP index file name is SRFX, and the H6000 file code designation is "Q#". The ISP data file is in commercial collating sequence. Storage Requirements for SRFD and SRFX are variable according to the size of the OPLAN being processed. The SRF data records are variable in length with the maximum record size being 870 characters or 145 H6000 words. SRF record types are described in appendix B.

c. Online Sequencing Order File (ONLSOF). ONLSOF is a control file which guides the order of processing for the records in the TPFDD file. It is an ISP structured file, and its storage media is disk. The ISP data file name is OSOFD, and the H6000 file code designation is "JX". The ISP index file is OSOFX, and the H6000 file code designation is "X#". The ISP data file is in commercial collating sequence. Storage requirements for OSOFD and OSOFX are variable according to the size of the OPLAN being processed. The ONLSOF data records are fixed length with the record size being 24 characters or 4 H6000 words. The ONLSOF record is described in appendix C.

d. Deployment Sequencing Order File (DEPSOF). DEPSOF is a control file which guides the order of processing for the records in the TPFDD file. It is an ISP structured file, and its storage media is disk. The ISP data file name is DSOFD, and the H6000 file code designation is "JD". The ISP index file name is DSOFX, and the H6000 file code designation is "D#". The ISP data file is in commercial collating

sequence. Storage requirements for DSOFD and DSOFX are variable according to the size of the OPLAN being processed. The DEPSOF data records are fixed length with the record size being 24 characters or 4 H6000 words. The DEPSOF record is described in appendix C.

e. Type Unit Characteristics Data File (TUCHA). TUCHA provides force identification and movement characteristics for standard type military units. It is an ISP structured file, and its storage media is disk. The ISP data file name is TUCHAD, and the H6000 file code designation is "JU". The ISP index file name is TUCHAX, and the H6000 file code designation is "U#". The ISP data file is in scientific collating sequence. Storage requirement for TUCHAD is approximately 9600 LLINKS of disk space and 120 LLINKS for TUCHAX. TUCHA data records are variable length and are described in appendix D.

f. Type Unit Equipment Detail File (TUDET). TUDET provides dimensions, weight, and cubic measurements of specific pieces of military equipment. It is an ISP structured file, and its storage media is disk. The ISP data file name is TUDETD, and the H6000 file code designation is "JE". The ISP indexed file name is TUDETX, and the H6000 file code designation is "E#". The ISP data file is in Scientific Collating Sequence. Storage requirement for TUDETD is approximately 100 LLINKS of disk space and 10 LLINKS for TUDETX. The TUDET data records are fixed length with the record size being 84 characters or 14 H6000 words. The TUDET record is described in appendix E.

g. Specified Geographic Location File (GEOFILE). GEOFILE provides location information for all registered Geolocation codes. It is an ISP structured file, and its storage media is disk. The ISP data file name is GEOD, and the H6000 file code designation is "BA". The ISP index file name is GEOX, and the H6000 file code designation is "AB". The ISP data file is in Scientific Collating Sequence. Storage Requirements for GEOD is approximately 4500 LLINKS of disk space and 100 LLINKS for GEOX. The GEOFILE data records are fixed length with the record size being 156 characters or 26 H6000 words. The GEOFILE record is described in appendix F.

h. TFE Control File (TFECON). TFECON provides an OPLAN-unique data file which contains transportation simulation parameters and results for TFE model simulation. Storage media is tape although it is an ISP structured file. The ISP data file code designation is "TC" and the index file code designation is "TI". The ISP data file is in Commercial Collating Sequence. Storage requirements are variable depending on the size of the OPLAN being processed. TFECON data records are variable in length with the largest record size being 192 characters or 32 H6000 words. TFECON records are described in appendix G.

2.2 Labeling/Tagging Conventions

There are different Labeling/Tagging Conventions used to identify the data files and the JOPS III programs. The JOPS III programs are identified by the H6000 GCOS release number followed by a JOPS release number (e.g., 7.3/6.6 defines the version of programs for GCOS Release 7.3 and JOPS Release 6.6).

The TUCHA, TUDET, and GEOFILE are updated by JDSSC and released quarterly to user sites in the WWMCCS community and the convention for identifying versions of these data files is to append a calendar year quarter identifier to the file name (e.g., TUCHA 1Q-87 identifies the first quarter release of TUCHA for 1987). OPLAN dependent files (ONLSOF, DEPSOF, TPFDD, and SRF) have an associated five character OPLAN identifier (e.g., 22006), an OPLAN creation date (e.g., 15 September 1986), and a change number (e.g., 01) which collectively identify the OPLAN.

2.3 Organization of the Data Base

The Data Base files are structured for both fixed length and variable length record processing. Detailed file descriptions and record layouts are included in appendixes of this manual. The primary reference key to the TUCHA file is a 5-character Unit Type Code (UTC). Equipment Identification Code (EIC) is the primary reference key to the TUDET file. Geolocation Code (GEOLOC) is the primary reference key to the GEOFILE. Primary access to the random TPFDD file is through a sector address obtained by accessing either the ONLSOF (which is keyed by record sequence number) or the DEPSOF (which is keyed by record type (force or nonunit) and either Unit Line Number (ULN) or Cargo/Personnel Increment Number (CIN/PIN)). The primary reference key to SRF records types that are associated with TPFDD records is ULN/CIN/PIN. The key structures for all record types are identified in applicable appendixes.

2.4 Special Instructions

TUCHA, TUDET, and GEOFILE are maintained at JDSSC and are periodically exported in the form of file replacements to all WWMCCS sites and others as appropriate. Instructions for loading these files are included in the JOPS ADP Software Installation Procedures Manual. Instructions for saving/restoring the OPLAN dependent TPFDD and SRF to/from magnetic tape and disk space is provided in the JOPS III Force Requirements Generator (FRG) Users Manual. All data files on magnetic tape will be created and maintained as 9-track, 1600 BPI tapes in H6000 system standard format.

2.5 Support Programs Available for Handling the Data Base

The Honeywell Standard Utility Program named XUTIL is used to load/save the TUCHA, TUDET, and GEOFILE. JOPS III standard software contains a TSS program named F60 and a batch program named SLAT which will load/save the TPFDD and SRF. ONLSOF and DEPSOF are special processing control files and are automatically generated when loading a TPFDD/SRF.

2.6 Security and Privacy

TUCHA, TUDET, and GEOFILE contain no classified information and require no special security handling or privacy protection. TPFDD and SRF will assume a classification based upon the security and privacy protection assigned by the owner (normally the supported commander) of the data contained in each specific OPLAN.

SECTION 3. DATA DEFINITION

3.1 Data Files

Descriptions of the data files that comprise the primary operation planning data base are provided in appendixes to this document. Each data file description is accompanied by figures for each record in the file. Both fixed length and variable length records are associated with the various data files. Although detailed explanations are provided in the appendixes, basic attributes of these files are summarized below.

3.1.1 Time Phased Force Deployment Data File (TPFDD). TPFDD is a disk file structured for random access via sector number addressing. The file is named TPFDD and is accessed using H6000 file code "JT". See appendix A.

3.1.2 Summary Reference File (SRF). SRF is a disk file structured for Indexed Sequential Processor (ISP) access. The ISP data file is named SRFD and is accessed using H6000 file code "JQ". The ISP index file is named SRFX and is accessed using file code "Q#". See appendix B.

3.1.3 Online Sequencing Order File (ONLSOF). ONLSOF is a disk file structured for ISP access. The ISP data file is named OSOFD and is accessed using H6000 file code "JX". The ISP index file is named OSOFX and is accessed using file code "X#". See appendix C.

3.1.4 Deployment Sequencing Order File (DEPSOF). DEPSOF is a disk file structured for ISP access. The ISP data file is named DSOFD and is accessed using H6000 file code "JD". The ISP index file is named DSOFX and is accessed using file code "D#". See appendix C.

3.1.5 Type Unit Characteristics File (TUCHA). TUCHA is a disk file structured for ISP access. The ISP data file is named TUCHAD and is accessed using H6000 file code "JU". The ISP index file is named TUCHAX and is accessed using file code "U#". See appendix D.

3.1.6 Type Unit Equipment Detail File (TUDET). TUDET is a disk file structured for ISP access. The ISP data file is named TUDETD and is accessed using H6000 file code "JE". The ISP index file is named TUDETX and is accessed using file code "E#". See appendix E.

3.1.7 Specified Geographic Location File (GEOFILE). GEOFILE is a disk file structured for ISP access. The ISP data file is named GEOD and is accessed using H6000 file code "BA". The ISP index file is named GEOX and is accessed using file code "AB". See appendix F.

3.1.8 TFE Control File (TFECON). TFECON is a disk file structured for ISP access for processing. The file is normally stored on magnetic tape and there are no assigned generic names for permanent disk file space. The ISP data file code is "TC". The ISP index file code is "TI". See appendix G.

3.2 Code Tables

Tables for data code values are provided in appendix T. Code values are also available during an interactive JOPS III terminal session using the command language entry *HELP. Online table code values are kept up-to-date as program capabilities are changed to meet current operating requirements.

3.3 Items

For the purposes of this document, "item" refers to a specific data element. The item definitions, as described in this document use COBOL language notation for data field format. Data field location within a record is identified by relative character position notation. Data fields within a record are numbered using a column number notation for convenience of referencing. Repeating sets of data elements within a group are clearly identified. Data element groups which define the ISP data record key fields have an asterisk appended to the column reference number.

3.4 Records and Entries

The basic unit of information inherent in all the data files that are described in this manual is the data element. A complete description of each data element is included in the appendixes to this document. Sample outputs, displays, and methods of processing the primary operation planning data base and other JOPS files are described in the users manuals listed as project references in paragraph 1.2.

SECTION 4. INTEGRATED DATA BASE

The data file systems described in this manual do not use an integrated data base. There are no plans at this time to adopt any sort of integrated data base concept.

APPENDIX A

TIME PHASED FORCE DEPLOYMENT DATA FILE (TPFDD)

A.1 Purpose. The TPFDD is the primary repository for force identification and movement data, nonunit-related cargo movement data, and nonunit-related personnel data. The TPFDD is the primary plan unique file in the JOPS III system.

A.2 General. The storage media for TPFDD processing is disk for its random structure, while magnetic tape provides temporary storage when the file is not required for processing. The first record in a TPFDD file must be the "1TPFDD" identification record and be 64 words in size. In its sequential format, the end of a TPFDD file is the last record preceding the " SRF" identification record. A TPFDD is always accompanied by a Summary Reference File (SRF) and, in its random form, a sequencing order file.

A.2.1 File Code and Name. A random TPFDD is identified by the file code "JT" and a sequential TPFDD by the file code "JJ". The random file name is TPFDD and the sequential file name is TPHOLD.

A.2.2 Collation Sequence. See appendix C for processing sequence of the TPFDD.

A.2.3 File Description. There are three categories of records which are the identification record, force records, and nonunit records. However, there are four codes for types of records. Record types are "1" for the identification record, " " (blank) for a force record, "C" for a nonunit cargo record, and "J" for a nonunit personnel record. In its random format, each TPFDD record is stored in a 64-word sector (5 records per 320-word block). There are two different record sizes when records are saved to tape. The Identification Record and Force Records are each 64 words in size; the Nonunit Record is 31 words. See figures A-1 through A-6.

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1	X(06)	1-6	RECORD TYPE	A CONTROL FIELD WHICH IDENTIFIES THE TYPE OF TPFDD RECORD AND CONTAINS THE LITERAL STRING '1TPFDD'. THIS RECORD WILL ALWAYS RESIDE IN SECTOR NUMBER ZERO OF THE RANDOM TPFDD.
2	9(06)	7-12	FORCE RECORD COUNT	A COUNT OF THE TOTAL NUMBER OF FORCE RECORDS IN THE TPFDD FILE.
3	9(06)	13-18	NONUNIT RECORD COUNT	A COUNT OF THE TOTAL NUMBER OF NONUNIT RECORDS IN THE TPFDD FILE.
4	9(06)	19-24	LAST SECTOR ADDRESS	CONTAINS THE SECTOR NUMBER OF THE LAST RECORD IN THE RANDOM TPFDD FILE.
5	X(06)	25-30	PROCESSING ORDER	A CONTROL FIELD THAT DENOTES THE PROCESSING ORDER FOR THE TPFDD FILE; 'ONLINE' WHEN USING THE ONLSOF OR 'DEPREP' WHEN USING THE DEPSOF.
6	X(05)	31-35	OPLAN NUMBER	SEE TABLES 1 & 2.
7	X(349)	36-384	SPECIAL CONTROL FIELD	THIS FIELD IS USED IN JOPS III AS AN INTER-PROGRAM COMMUNICATIONS AREA.

Figure A-1. TPFDD IDENT Record Specifications

```
01   TPFDD-IDENT-RECORD.
     03  TS-RECD-TYPE                  PIC  X(06).
     03  TS-FORCE-RECD-COUNT           PIC  9(06).
     03  TS-NONUNIT-RECD-COUNT         PIC  9(06).
     03  TS-LAST-SECTOR-ADDRESS        PIC  9(06).
     03  TS-PROCESSING-ORDER           PIC  X(06).
     03  TS-OPLAN-ID                   PIC  X(05).
     03  TS-INTERMODULE-COMM-AREA      PIC  X(349).
```

Figure A-2. TPFDD IDENT Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1	X(01)	1-1	RECORD TYPE	A VALUE OF SPACE TO DENOTE A FORCE RECORD.
2	X(05)	2-6	FORCE REQUIREMENT NUMBER	SEE TABLE 3.
3	X(01)	7-7	FRAGMENTATION CODE	ALPHABETIC IDENTIFIER THAT IS USED TO DENOTE A SUBORDINATE UNIT OF THE FORCE REQUIREMENT.
4	X(01)	8-8	INSERTION CODE	ALPHANUMERIC IDENTIFIER (EXCEPT I OR O) THAT DESIGNATES A SUBORDINATE WITHIN A FRAGMENTATION.
5	X(01)	9-9	PROVIDING ORGANIZATION	SEE TABLE 4.
6	X(01)	10-10	SERVICE CODE	SEE TABLE 5.
7	X(05)	11-15	UNIT TYPE CODE	SEE TABLE 6.
8	X(03)	16-18	UNIT LEVEL CODE	SEE TABLE 7.
9	X(31)	19-49	FORCE DESCRIPTION	FREE-FORM LONG NAME FORCE DESCRIPTION.
10	X(05)	50-54	FORCE DESCRIPTION (SERVICE RESERVED)	RESERVED FOR SERVICE USE.
11	9(01)	55-55	FORCE INDICATOR CODE	SEE TABLE 8.
12	X(01)	56-56	PARENT INDICATOR CODE	SEE TABLE 3.
13	X(06)	57-62	UNIT IDENTIFICATION CODE	IDENTIFIES THE ACTUAL UNIT THAT IS DESIGNATED TO FILL THIS FORCE REQUIREMENT; MUST BE A VALID UIC IN ACCORDANCE WITH JCS PUB 6, VOL II, PART 2, CHAPTER 1 (UNITREP).
14	X(30)	63-92	UNIT NAME	FREE-FORM UNIT NAME; PROVIDES SUPPLEMENTAL INFORMATION TO ASSIST IN IDENTIFYING THE UNIT DESIGNATED TO FILL THE FORCE REQUIREMENT.

Figure A-3. TPFDD Force Record Specifications (Part 1 of 8)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
15	X(03)	93-95	PROJECT CODE	USED TO IDENTIFY SPECIAL PROJECTS.
16	9(05)	96-100	AUTHORIZED PERSONNEL OR UNIT STRENGTH	AUTHORIZED WARTIME STRENGTH AS DEFINED IN THE TUCHA FILE OR THE VALUE SUPPLIED BY THE FORCE PLANNER IN THE CASE OF A NONSTANDARD UNIT.
17	9(05)	101-105	PERSONNEL REQUIRING TOA TRANSPORTATION	PERSONNEL REQUIRING NON-ORGANIC TRANSPORTATION WHEN THE UNIT MOVES.
18	9(6)V9	106-112	BULK CARGO (S/T)	TOTAL SHORT TONS OF BULK CARGO ASSOCIATED WITH THE UNIT.
19	9(07)	113-119	BULK CARGO (M/T)	TOTAL MEASUREMENT TONS OF OF BULK CARGO ASSOCIATED WITH THE UNIT.
20	9(6)V9	120-126	OVERSIZE CARGO (S/T)	TOTAL SHORT TONS OF OVERSIZE CARGO ASSOCIATED WITH THE UNIT.
21	9(07)	127-133	OVERSIZE CARGO (M/T)	TOTAL MEASUREMENT TONS OF OVERSIZE CARGO ASSOCIATED WITH THE UNIT.
22	9(6)V9	134-140	OUTSIZE CARGO (S/T)	TOTAL SHORT TONS OF OUTSIZE CARGO ASSOCIATED WITH THE UNIT.
23	9(07)	141-147	OUTSIZE CARGO (M/T)	TOTAL MEASUREMENT TONS OF OUTSIZE CARGO ASSOCIATED WITH THE UNIT.
24	9(6)V9	148-154	NONAIR-TRANSPORTABLE CARGO (S/T)	TOTAL SHORT TONS OF NAT CARGO ASSOCIATED WITH THE UNIT.
25	9(07)	155-161	NONAIR-TRANSPORTABLE CARGO (M/T)	TOTAL MEASUREMENT TONS OF NAT CARGO ASSOCIATED WITH THE UNIT.

Figure A-3. (Part 2 of 8)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
26	9(07)	162-168	BULK POL (CBBLS)	TOTAL BULK POL, IN HUNDREDS OF BARRELS, ASSOCIATED WITH THE UNIT; NOTE, DOES NOT INCLUDE PACKAGED POL.
27	9(02)	169-170	ACTUAL NUMBER OF CARGO CATEGORIES	A CONTROL FIELD WHICH CONTAINS THE ACTUAL NUMBER OF CARGO CATEGORIES THAT ARE ASSOCIATED WITH THE UNIT.
28	9(02)	171-172	REQUIRED NUMBER OF CARGO CATEGORIES	THE NUMBER OF CARGO CATEGORIES THAT SHOULD BE SUBMITTED BY THE ORIGINATOR OF THE CARGO DATA.
29	X(01)	173-173	TUCHA STATUS INDICATOR	A VALUE OF 'X' INDICATES FORCE DESCRIPTION IS NOT TO BE CHANGED BY TUCHA.
30	X(04)	174-177	ORIGIN GEOLOC CODE	SEE TABLE 12.
31	X(02)	178-179	ORIGIN COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
32	X(04)	180-183	UNIT READY TO LOAD DATE (RLD).	THE DAY THIS UNIT WILL BE READY TO MOVE FROM ITS ORIGIN LOCATION; SEE TABLE 14.
33	X(04)	184-187	POE GEOLOC CODE	SEE TABLE 12.
34	X(02)	188-189	POE COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
35	X(04)	190-193	POE AVAILABLE TO LOAD DATE (ALD)	THE DAY THIS UNIT WILL BE READY TO MOVE FROM THE POE; SEE TABLE 14.
36	X(04)	194-197	POD EARLIEST DELIVERY DATE (EDD)	THE COMPUTED DAY THE FIRST INCREMENT OF THIS UNIT WOULD ARRIVE AT THE POD; SEE TABLE 14.

Figure A-3. (Part 3 of 8)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
37	X(01)	198-198	PREFERRED MODE OF TRANSPORT TO THE POE	SEE TABLE 9.
38	X(01)	199-199	PREFERRED SOURCE OF TRANSPORT TO THE POE	SEE TABLE 9.
39	X(04)	200-203	ALTERNATE POE GEOLOC CODE	SEE TABLE 12.
40	X(02)	204-205	ALTERNATE POE COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
41	X(04)	206-209	INTERMEDIATE LOCATION GEOLOC CODE	SEE TABLE 12.
42	X(02)	210-211	INTERMEDIATE LOCATION COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
43	X(01)	212-212	PREFERRED MODE OF TRANSPORT TO INTERMEDIATE	SEE TABLE 9.
44	X(01)	213-213	PREFERRED SOURCE OF TRANSPORT TO INTERMEDIATE	SEE TABLE 9.
45	9(03)	214-216	DAYS DELAY AT THE INTERMEDIATE LOCATION	INDICATES THE NUMBER OF DAYS THE UNIT WILL DELAY AT THE INTERMEDIATE LOCATION.
46	X(01)	217-217	TYPE OF DELAY AT THE INTERMEDIATE LOCATION	A CODE THAT INDICATES WHETHER THE ENTIRE FORCE MUST REMAIN AS A UNIT AT THE INTERMEDIATE LOCATION (VALUE 'T') OR THAT THE DELAY APPLIES TO INCREMENTAL PORTIONS OF THE FORCE (VALUE 'F').
47	X(01)	218-218	LOCATION CODE FOR THE INTERMEDIATE STOP	SEE TABLE 13.
48	X(01)	219-219	LOAD CONFIGURATION TO THE INTERMEDIATE	SEE TABLE 10.
49	X(02)	220-221	DISCHARGE CONSTRAINTS AT THE INTERMEDIATE	SEE TABLE 11.

Figure A-3. (Part 4 of 8)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
50	X(04)	222-225	POD GEOLOC CODE	SEE TABLE 12.
51	X(02)	226-227	POD COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
52	X(04)	228-231	POD EARLIEST ARRIVAL DATE (EAD)	THE EARLIEST DAY THAT THE UNIT MAY ARRIVE AT THE POD; SEE TABLE 14.
53	X(04)	232-235	POD LATEST ARRIVAL DATE (LAD)	THE LATEST DAY BY WHICH THE UNIT MUST ARRIVE AND COMPLETE UNLOADING AT THE POD; SEE TABLE 14.
54	X(04)	236-239	POD FEASIBLE ARRIVAL DATE (FAD)	THE COMPUTED DAY THAT THE LAST INCREMENT OF THIS UNIT COMPLETES UNLOADING AT THE POD; SEE TABLE 14.
55	9(02)	240-241	PROJECTED DAYS LATE AT THE POD	THE PROJECTED NUMBER OF DAYS THE UNIT WILL BE LATE IN ARRIVING AT THE POD.
56	X(01)	242-242	PREFERRED MODE OF TRANSPORT TO THE POD	SEE TABLE 9.
57	X(01)	243-243	PREFERRED SOURCE OF TRANSPORT TO THE POD	SEE TABLE 9.
58	X(01)	244-244	LOAD CONFIGURATION TO THE POD	SEE TABLE 10.
59	X(02)	245-246	DISCHARGE CONSTRAINTS AT THE POD	SEE TABLE 11.
60	X(04)	247-250	ALTERNATE POD GEOLOC CODE	SEE TABLE 12.
61	X(02)	251-252	ALTERNATE POD COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
62	X(04)	253-255	PRIORITY FOR ARRIVAL AT THE POD	INDICATES THE DESIRED SEQUENCE (001-999) FOR ARRIVAL ON THE LAD AT THE POD.

Figure A-3. (Part 5 of 8)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
63	X(01)	256-256	PRIORITY ADD-ON	USED TO INSERT A UNIT INTO THE DESIRED ARRIVAL SEQUENCE.
64	X(04)	257-260	DESTINATION GEOLOC CODE	SEE TABLE 12.
65	X(02)	261-262	DESTINATION COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
66	X(04)	263-266	DESTINATION REQUIRED DELIVERY DATE (RDD)	THE LATEST DAY BY WHICH THE UNIT MUST ARRIVE AND COMPLETE UNLOADING AT ITS FINAL DESTINATION; SEE TABLE 14.
67	X(01)	267-267	PREFERRED MODE OF TRANSPORT TO THE DEST	SEE TABLE 9.
68	X(01)	268-268	PREFERRED SOURCE OF TRANSPORT TO THE DEST	SEE TABLE 9.
69	X(01)	269-269	LOAD CONFIGURATION TO THE DESTINATION	SEE TABLE 10.
70	X(02)	270-271	DISCHARGE CONSTRAINTS AT THE DESTINATION	SEE TABLE 11.
71	X(04)	272-275	SEA PORT-OF-SUPPORT GEOLOC CODE	THE SEAPORT THAT THE JOPS III MRG DETERMINED WAS THE DESIRED DELIVERY POINT FOR NONUNIT RELATED GENERAL CARGO; SEE TABLE 12.
72	X(02)	276-277	SEA PORT-OF-SUPPORT COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
73	X(04)	278-281	AIR PORT-OF-SUPPORT GEOLOC CODE	THE AIRPORT THAT THE JOPS III MRG DETERMINED WAS THE DESIRED DELIVERY POINT FOR NONUNIT RELATED GENERAL CARGO AND REPLACEMENT PERSONNEL; SEE TABLE 12.
74	X(02)	282-283	AIR PORT-OF-SUPPORT COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.

Figure A-3. (Part 6 of 8)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
75	X(04)	284-287	POL PORT-OF-SUPPORT GEOLOC CODE	THE SEAPORT THAT THE JOPS III MRC DETERMINED WAS THE DESIRED DELIVERY POINT FOR NONUNIT RELATED POL; SEE TABLE 12.
76	X(02)	288-289	POL PORT-OF-SUPPORT COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
77	X(04)	290-293	AMMUNITION PORT-OF-SUPPORT GEOLOC CODE	THE SEAPORT THAT THE JOPS III MRC DETERMINED WAS THE DESIRED DELIVERY POINT FOR NONUNIT RELATED AMMUNITION; SEE TABLE 12
78	X(02)	294-295	AMMUNITION PORT-OF-SUPPORT COUNTRY/STATE	PROGRAM GENERATED FROM GEOFILE.
79	X(02)	296-297	NOT USED	FILLER SPACE.
80	X(03)	298-300	NOT USED	FILLER SPACE.
81	9(05)	301-305	FRC FORCE SELECT NUMBER	SEQUENCE NUMBER (00001-99999) AUTOMATICALLY ASSIGNED TO EACH FORCE RECORD AS IT IS CREATED TO PROVIDE A UNIQUE KEY VALUE THAT CAN BE USED TO UPDATE THE SRF WHEN AN FRN IS NOT ASSIGNED.
82	9(06)	306-311	DATE THIS RECORD WAS CREATED	DATE THIS RECORD WAS INITIALLY ADDED TO THE TPFDD FILE (YYMMDD).
83	9(06)	312-317	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN THE TPFDD FILE (YYMMDD).
84	X(01)	318-318	CRITICAL EMPLOYMENT INDICATOR (CEI)	WHEN NONBLANK THE FORCE IS ESSENTIAL TO MISSION.

Figure A-3. (Part 7 of 8)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
85	X(36)	319-354	RESERVED FOR JOPS III BASELINE SOFTWARE	THIS AREA OF THE RECORD IS CURRENTLY FILLER SPACE AND IS RESERVED FOR POSSIBLE FUTURE ADDITIONS OF DATA ELEMENTS WITHIN THE JOPS III BASELINE SOFTWARE.
86	X(30)	355-384	RESERVED FOR COMMAND UNIQUE NONBASELINE SOFTWARE APPLICATIONS	THIS AREA OF THE RECORD IS FREE SPACE THAT CAN BE USED FOR ANY COMMAND OR USER UNIQUE PROCESSING APPLICATION.

Figure A-3. (Part 8 of 8)

```
01  TPFDD-FORCE-RECORD.
    03  TP-RECD-TYPE                          PIC X.
    03  TP-FRN                                PIC X(05).
    03  TP-FRAG                               PIC X.
    03  TP-INSERT                             PIC X.
    03  TP-PRORG                              PIC X.
    03  TP-SERVICE                            PIC X.
    03  TP-UTC                                PIC X(05).
    03  TP-ULC                                PIC X(03).
    03  TP-FORCE-DESCRIPTION                  PIC X(31).
    03  TP-FORCE-DESC-RSVD                    PIC X(05).
    03  TP-FIC                                PIC 9.
    03  TP-PIC                                PIC X.
    03  TP-UIC                                PIC X(06).
    03  TP-UNIT-NAME                          PIC X(30).
    03  TP-PROJECT-CD  93                     PIC X(03).
    03  TP-AUTH-PERS                          PIC 9(05).
    03  TP-TOT-PERS-REQ-TRANS                 PIC 9(05).
    03  TP-TOT-BULK-CARGO-STONS               PIC 9(06)V9.
    03  TP-TOT-BULK-CARGO-MTONS               PIC 9(07).
    03  TP-TOT-OVR-CARGO-STONS                PIC 9(06)V9.
    03  TP-TOT-OVR-CARGO-MTONS                PIC 9(07).
    03  TP-TOT-OUT-CARGO-STONS                PIC 9(06)V9.
    03  TP-TOT-OUT-CARGO-MTONS                PIC 9(07).
    03  TP-TOT-NAT-CARGO-STONS                PIC 9(06)V9.
    03  TP-TOT-NAT-CARGO-MTONS                PIC 9(07).
    03  TP-TOT-BULK-POL                       PIC 9(07).
    03  TP-NBR-CARGO-CATEGORIES               PIC 9(02).
    03  TP-NBR-REPT-CARGO-CATEGORIES          PIC 9(02).
    03  TP-TUCHA-STATUS-IND                   PIC X.
    03  TP-ORIGIN-GEOLOC-CD                   PIC X(04).
    03  TP-ORIGIN-COUNTRY-CD                  PIC X(02).
    03  TP-UNIT-RDY-LOAD-DATE.
        05  TP-UNIT-RDY-LOAD-IND              PIC X.
        05  TP-UNIT-RDY-LOAD                  PIC 9(03).
    03  TP-POE-GEOLOC-CD                      PIC X(04).
    03  TP-POE-COUNTRY-CD                     PIC X(02).
    03  TP-POE-AVAIL-LOAD-DATE.
        05  TP-POE-AVAIL-LOAD-IND             PIC X.
        05  TP-POE-AVAIL-LOAD                 PIC 9(03).
    03  TP-POD-EARLIEST-DELIVERY-DATE.
        05  TP-POD-EARLIEST-DELIVERY-IND      PIC X.
        05  TP-POD-EARLIEST-DELIVERY          PIC 9(03).
    03  TP-POE-PREF-MODE                      PIC X.
    03  TP-POE-PREF-SOURCE                    PIC X.
    03  TP-POE-ALT-GEOLOC-CD                  PIC X(04).
    03  TP-POE-ALT-COUNTRY-CD                 PIC X(02).
    03  TP-IL-GEOLOC-CD                       PIC X(04).
    03  TP-IL-COUNTRY-CD                      PIC X(02).
    03  TP-IL-PREF-MODE                       PIC X.
    03  TP-IL-PREF-SOURCE                     PIC X.
```

Figure A-4. TPFDD Force Record Layout (Part 1 of 2)

```
03  TP-IL-DAYS-DELAY                        PIC 9(03).
03  TP-IL-TYPE-DELAY                        PIC X.
03  TP-IL-LOCATION-STOP                     PIC X.
03  TP-IL-LOAD-CONFIG                       PIC X.
03  TP-IL-DISCHARGE-CON                     PIC X(02).
03  TP-POD-GEOLOC-CD                        PIC X(04).
03  TP-POD-COUNTRY-CD                       PIC X(02).
03  TP-POD-EARLY-ARR-DATE.
    05  TP-POD-EARLY-ARR-IND                PIC X.
    05  TP-POD-EARLY-ARR                    PIC 9(03).
03  TP-POD-LATEST-ARR-DATE.
    05  TP-POD-LATEST-ARR-IND               PIC X.
    05  TP-POD-LATEST-ARR                   PIC 9(03).
03  TP-POD-FEASIBLE-ARR-DATE.
    05  TP-POD-FEASIBLE-ARR-IND             PIC X.
    05  TP-POD-FEASIBLE-ARR                 PIC 9(03).
03  TP-POD-PROJ-DAYS-LATE                   PIC 9(02).
03  TP-POD-PREF-MODE                        PIC X.
03  TP-POD-PREF-SOURCE                      PIC X.
03  TP-POD-LOAD-CONFIG                      PIC X.
03  TP-POD-DISCHARGE-CON                    PIC X(02).
03  TP-POD-ALT-GEOLOC-CD                    PIC X(04).
03  TP-POD-ALT-COUNTRY-CD                   PIC X(02).
03  TP-POD-PRIORITY                         PIC 9(03).
03  TP-POD-PRIOR-ADD-ON                     PIC X.
03  TP-DEST-GEOLOC-CD                       PIC X(04).
03  TP-DEST-COUNTRY-CD                      PIC X(02).
03  TP-DEST-REQ-DELIVERY-DATE.
    05  TP-DEST-REQ-DELIVERY-IND            PIC X.
    05  TP-DEST-REQ-DELIVERY                PIC 9(03).
03  TP-DEST-PREF-MODE                       PIC X.
03  TP-DEST-PREF-SOURCE                     PIC X.
03  TP-DEST-LOAD-CONFIG                     PIC X.
03  TP-DEST-DISCHARGE-CON                   PIC X(02).
03  TP-SEA-POS-GEOLOC-CD                    PIC X(04).
03  TP-SEA-POS-COUNTRY-CD                   PIC X(02).
03  TP-AIR-POS-GEOLOC-CD                    PIC X(04).
03  TP-AIR-POS-COUNTRY-CD                   PIC X(02).
03  TP-POL-POS-GEOLOC-CD                    PIC X(04).
03  TP-POL-POS-COUNTRY-CD                   PIC X(02).
03  TP-AMMO-POS-GEOLOC-CD                   PIC X(04).
03  TP-AMMO-POS-COUNTRY-CD                  PIC X(02).
03  FILLER                                  PIC X(02).
03  FILLER                                  PIC 9(03).
03  TP-FORCE-SELECT-NUMBER                  PIC 9(05).
03  TP-DATE-RECD-CREATED                    PIC 9(06).
03  TP-DATE-RECD-LAST-CHG                   PIC 9(06).
03  TP-CRITICAL-EMPLOYMENT-IND              PIC X.
03  TP-RESERVED-BASELINE                    PIC X(36).
03  TP-RESERVED-NON-BASELINE                PIC X(30).
```

Figure A-4. (Part 2 of 2)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1	X(01)	1-1	RECORD TYPE	A VALUE OF "C" DENOTES A NONUNIT CARGO RECORD; A VALUE OF "J" DENOTES A NONUNIT PERSONNEL RECORD.
2	X(01)	2-2	USING ORGANIZATION	A CODE FROM TABLE 5 THAT IDENTIFIES THE SERVICE OR ACTIVITY THAT WILL BE THE USER OF THIS NONUNIT RELATED CARGO OR PERSONNEL.
3	X(01)	3-3	TYPE OF MOVEMENT CODE	A CODE FROM TABLE 17 THAT CATEGORIZES THE FUNCTIONAL USE OF THE CARGO/PERSONNEL DEFINED IN THIS RECORD.
4	9(05)	4-8	SEQUENCING NUMBER	SEQUENCE NUMBER (00001-99999) THAT UNIQUELY IDENTIFIES EACH RECORD WITHIN A USING ORGANIZATION AND TYPE OF MOVEMENT RECORD SET.
5	X(04)	9-12	ORIGIN GEOLOC CODE	SEE TABLE 12.
6	X(02)	13-14	ORIGIN COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
7	X(04)	15-18	POE GEOLOC CODE	SEE TABLE 12.
8	X(02)	19-20	POE COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
9	X(04)	21-24	POE AVAILABLE TO LOAD DATE (ALD)	THE DAY THAT THIS MOVEMENT REQUIREMENT WILL BE READY TO MOVE FROM THE POE; SEE TABLE 14.
10	X(04)	25-28	POD EARLIEST DELIVERY DATE (EDD)	THE COMPUTED DAY THAT THE FIRST INCREMENT OF THIS MOVEMENT REQUIREMENT COULD ARRIVE AT THE POD; SEE TABLE 14.

Figure A-5. TPFDD Nonunit Record Specifications (Part 1 of 5)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
11	X(01)	29-29	PREFERRED MODE OF TRANSPORT TO THE POE	SEE TABLE 9.
12	X(01)	30-30	PREFERRED SOURCE OF TRANSPORT TO THE POE	SEE TABLE 9.
13	X(04)	31-34	ALTERNATE POE GEOLOC CODE	SEE TABLE 12.
14	X(02)	35-36	ALTERNATE POE COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
15	X(04)	37-40	POD GEOLOC CODE	SEE TABLE 12.
16	X(02)	41-42	POD COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
17	X(04)	43-46	POD EARLIEST ARRIVAL DATE (EAD)	THE EARLIEST DAY THAT THIS MOVEMENT REQUIREMENT MAY ARRIVE AT THE POD; SEE TABLE 14.
18	X(04)	47-50	POD LATEST ARRIVAL DATE (LAD)	THE LATEST DAY BY WHICH THIS MOVEMENT REQUIREMENT MUST ARRIVE AND COMPLETE UNLOADING AT THE POD; SEE TABLE 14.
19	X(04)	51-54	POD FEASIBLE ARRIVAL DATE (FAD)	THE COMPUTED DAY THE LAST INCREMENT OF THIS MOVEMENT REQUIREMENT COMPLETED UNLOADING AT THE POD; SEE TABLE 14.
20	X(01)	55-55	PREFERRED MODE OF TRANSPORT TO THE POD	SEE TABLE 9.
21	X(01)	56-56	PREFERRED SOURCE OF TRANSPORT TO THE POD	SEE TABLE 9.
22	X(04)	57-60	ALTERNATE POD GEOLOC CODE	SEE TABLE 12.
23	X(02)	61-62	ALTERNATE POD COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
24	X(04)	63-66	DESTINATION GEOLOC CODE	SEE TABLE 12.

Figure A-5. (Part 2 of 5)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
25	X(02)	67-68	DESTINATION COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
26	X(04)	69-72	DESTINATION REQUIRED DELIVERY DATE (RDD)	THE LATEST DAY BY WHICH THIS MOVEMENT REQUIREMENT MUST ARRIVE AND COMPLETE UNLOADING AT ITS FINAL DESTINATION; SEE TABLE 14.
27	X(01)	73-73	PREFERRED MODE OF TRANSPORT TO THE DEST	SEE TABLE 9.
28	X(01)	74-74	PREFERRED SOURCE OF TRANSPORT TO THE DEST	SEE TABLE 9.
29	9(05)	75-79	PERSONNEL REQUIRING TO A TRANSPORTATION	PERSONNEL REQUIRING NON-ORGANIC TRANSPORTATION WHEN THIS REQUIREMENT MOVES.
30	X(01)	80-80	CARGO CATEGORY CODE (FIRST POSITION)	IDENTIFIES THE TYPE OF CARGO TO BE MOVED; SEE TABLE 18.
31	X(01)	81-81	CARGO CATEGORY CODE (SECOND POSITION)	IDENTIFIES THE TYPE OF CARGO TO BE MOVED; SEE TABLE 18.
32	X(01)	82-82	CARGO CATEGORY CODE (THIRD POSITION)	IDENTIFIES THE TYPE OF CARGO TO BE MOVED; SEE TABLE 18.
33	X(01)	83-83	HEAVY LIFT AND DIMENSION CATEGORY CODE	A CODE FROM TABLE 19 THAT EQUATES TO THE HEAVIEST ITEM AND THE GREATEST DIMENSION OF THE LARGEST ITEM OF THIS CARGO CATEGORY.
34	X(02)	84-85	SUPPLY CLASS/SUBCLASS CODE	SEE TABLE 20.
35	9(06)	86-91	CARGO SQUARE FEET	NUMBER OF SQUARE FEET OF DECK OR FLOOR SPACE REQUIRED FOR TRANSPORTING THIS CARGO.

Figure A-5. (Part 3 of 5)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
36	9(5)V9	92-97	CARGO WEIGHT (S/T)	CONTAINS THE CARGO WEIGHT IN SHORT TONS.
37	9(06)	98-103	CARGO CUBE (M/T)	CONTAINS THE CARGO CUBE IN MEASUREMENT TONS.
38	9(06)	104-109	CARGO BULK POL (CBBLS)	CONTAINS THE AMOUNT OF BULK POL IN HUNDREDS OF BARRELS.
39	X(03)	110-112	PROJECT CODE	USED TO IDENTIFY SPECIAL PROJECTS.
40	9(06)	113-118	DATE THIS RECORD WAS CREATED	DATE THIS RECORD WAS INITIALLY ADDED TO THE TPFDD FILE (YYMMDD).
41	9(06)	119-124	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN THE TPFDD FILE (YYMMDD).
42	X(01)	125-125	PROVIDING ORGANIZATION CODE	A CODE FROM TABLE 16 OR TABLE 21 THAT IDENTIFIES THAT SERVICE OR ACTIVITY THAT IS RESPONSIBLE FOR PROVIDING THIS CARGO OR PERSONNEL REQUIREMENT.
43	X(01)	126-126	REASON FOR THE INTERMEDIATE STOP	A CODE FROM TABLE 25 THAT PROVIDES A REASON FOR THE INTERMEDIATE STOP.
44	X(03)	127-129	FUEL TYPE CODE	SEE TABLE 26.
45	X(04)	130-133	INTERMEDIATE LOCATION GEOLOC CODE	SEE TABLE 12.
46	X(02)	134-135	INTERMEDIATE LOCATION COUNTRY/STATE CODE	PROGRAM GENERATED FROM GEOFILE.
47	X(01)	136-136	PREFERRED MODE OF TRANSPORT TO INTERMEDIATE	SEE TABLE 9.
48	X(01)	137-137	PREFERRED SOURCE OF TRANSPORT TO INTERMEDIATE	SEE TABLE 9.

Figure A-5. (Part 4 of 5)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
49	9(03)	138-140	DAYS DELAY AT THE INTERMEDIATE LOCATION	INDICATES THE NUMBER OF DAYS THAT THE MOVEMENT REQUIREMENT WILL BE DELAYED AT THE INTERMEDIATE LOCATION.
50	X(01)	141-141	LOCATION CODE FOR THE INTERMEDIATE STOP	SEE TABLE 13.
51	X(15)	142-156	CARGO/PERSONNEL DESCRIPTION	FREE FORM DESCRIPTION OF THIS CARGO/PERSONNEL INCREMENT NUMBER.
52	X(30)	157-186	RESERVED FOR COMMAND UNIQUE NONBASELINE SOFTWARE APPLICATIONS	THIS AREA OF THE RECORD IS FREE SPACE THAT CAN BE USED FOR ANY COMMAND OR USER UNIQUE PROCESSING APPLICATION.

Figure A-5. (Part 5 of 5)

```
01  TPFDD-NONUNIT-RECORD.
    03  TN-RECD-TYPE                          PIC X.
    03  TN-USING-ORG                          PIC X.
    03  TN-TYPE-MVMNT                         PIC X.
    03  TN-SEQUENCE-NO                        PIC 9(05).
    03  TN-ORIGIN-GEOLOC-CD                   PIC X(04).
    03  TN-ORIGIN-COUNTRY-CD                  PIC X(02).
    03  TN-POE-GEOLOC-CD                      PIC X(04).
    03  TN-POE-COUNTRY-CD                     PIC X(02).
    03  TN-POE-AVAIL-LOAD-DATE.
        05  TN-POE-AVAIL-LOAD-IND             PIC X.
        05  TN-POE-AVAIL-LOAD                 PIC 9(03).
    03  TN-POD-EARLIEST-DELIVERY-DATE.
        05  TN-POD-EARLIEST-DELIVERY-IND      PIC X.
        05  TN-POD-EARLIEST-DELIVERY          PIC 9(03).
    03  TN-POE-PREF-MODE                      PIC X.
    03  TN-POE-PREF-SOURCE                    PIC X.
    03  TN-POE-ALT-GEOLOC-CD                  PIC X(04).
    03  TN-POE-ALT-COUNTRY-CD                 PIC X(02).
    03  TN-POD-GEOLOC-CD                      PIC X(04).
    03  TN-POD-COUNTRY-CD                     PIC X(02).
    03  TN-POD-EARLY-ARR-DATE.
        05  TN-POD-EARLY-ARR-IND              PIC X.
        05  TN-POD EARLY-ARR                  PIC 9(03).
    03  TN-POD-LATEST-ARR-DATE.
        05  TN-POD-LATEST-ARR-IND             PIC X.
        05  TN-POD-LATEST-ARR                 PIC 9(03).
    03  TN-POD-FEASIBLE-ARRIVAL-DATE.
        05  TN-POD-FEASIBLE-ARRIVAL-IND       PIC X.
        05  TN-POD-FEASIBLE-ARRIVAL           PIC 9(03).
    03  TN-POD-PREF-MODE                      PIC X.
    03  TN-POD-PREF-SOURCE                    PIC X.
    03  TN-POD-ALT-GEOLOC-CD                  PIC X(04).
    03  TN-POD-ALT-COUNTRY-CD                 PIC X(02).
    03  TN-DEST-GEOLOC-CD                     PIC X(04).
    03  TN-DEST-COUNTRY-CD                    PIC X(02).
    03  TN-DEST-REQ-DELIVERY-DATE.
        05  TN-DEST-REQ-DELIVERY-IND          PIC X.
        05  TN-DEST-REQ-DELIVERY              PIC 9(03).
    03  TN-DEST-PREF-MODE                     PIC X.
    03  TN-DEST-PREF-SOURCE                   PIC X.
    03  TN-PERS-REQ-TRANS                     PIC 9(05).
    03  TN-CARGO-CATGY-CD-1                   PIC X.
    03  TN-CARGO-CATGY-CD-2                   PIC X.
    03  TN-CARGO-CATGY-CD-3                   PIC X.
    03  TN-HEAVY-LIFT-CD                      PIC X.
    03  TN-SUPPLY-CLASS-SUBCLASS-CD.
        05  TN-SUPPLY-CLASS-CD                PIC X.
        05  TN-SUPPLY-SUBCLASS-CD             PIC X.
```

Figure A-6. TPFDD Nonunit Record Layout (Part 1 of 2)

```
03  TN-CARGO-SQ-FT                 PIC 9(06).
03  TN-CARGO-STONS                 PIC 9(05)V9.
03  TN-CARGO-MTONS                 PIC 9(06).
03  TN-CARGO-BULK-POL              PIC 9(06).
03  TN-PROJECT-CD                  PIC X(03).
03  TN-DATE-RECD-CREATED           PIC 9(06).
03  TN-DATE-RECD-LAST-CHG          PIC 9(06).
03  TN-PROVIDING-ORG               PIC X.
03  TN-IL-REASON-DELAY             PIC X.
03  TN-FUEL-TYPE-CODE              PIC X(03).
03  TN-IL-GEOLOC-CD                PIC X(04).
03  TN-IL-COUNTRY-CD               PIC X(02).
03  TN-IL-PREF-MODE                PIC X.
03  TN-IL-PREF-SOURCE              PIC X.
03  TN-IL-DAYS-DELAY               PIC 9(03).
03  TN-IL-LOCATION-STOP            PIC X.
03  TN-CARGO-PERSONNEL-DESC        PIC X(15).
03  TN-RESERVED-NON-BASELINE       PIC X(30).
```

Figure A-6. (Part 2 of 2)

APPENDIX B

SUMMARY REFERENCE FILE (SRF)

B.1 Purpose. The SRF is intrinsic to each operation plan TPFDD. It contains OPLAN-unique data beyond that which is in a TPFDD.

B.2 General. The SRF is an ISP structured file and its storage media for processing is disk. Magnetic tape is used for storage when the SRF is not required for online processing. The first record in the SRF must begin with the value " SRF " and be 145 words in length. This is the SRF Identification Record.

B.2.1 File Code and Name. The ISP data file code is "JQ" and the file name is SRFD. The ISP index file code is "Q#" and the file name is SRFX.

B.2.2 Collation Sequence. Commercial.

B.2.3 File Description. The SRF is subject to contain many types of variable length records. The minimum requirement is the SRF Identification Record. A description of each type of record follows.

a. OPLAN Identification Record (SR1). The SR1 record is created by module F10 and is the first step in establishing an OPLAN. This record contains data used by other modules to complete report heading and provides OPLAN identification. The data includes OPLAN number, date, classification, objective area, concept of operations, and record counts. See figures B-1 and B-2.

b. Force Module Record (SRFFM). The SRFFM record is created and maintained by the JOPS Force Module Subsystem (FMS). It defines a force module by use of a 3-character identifier. Each force module in turn has associated title and description text and Unit Line Number (ULN), Cargo Increment Number (CIN), and Personnel Increment Number (PIN) indexes. See figures B-3 through B-12.

c. Force Definition Record (SR3A). The SR3A record is created whenever a force requirement is fragmented. It contains the original supported CINC force description and force routing data. See figures B-13 and B-14.

d. Nonunit Cargo Aggregation Record (SR3H). The SR3H record is created when nonunit cargo data are aggregated. It contains detail data by supply class or fuel type code. See figures B-15 through B-22.

e. Force Cargo Category Record (SR3K). The SR3K record is created and maintained by module F23. It contains a summation of cargo characteristics data for nonstandard forces. See figures B-23 and B-24.

f. Force Cargo Detail Record (SR3KT). This record contains detailed characteristics for individual pieces of unit equipment within a related cargo category for a nonstandard force requirement. See figures B-25 and B-26.

g. Movement Table Record (SR3M). The SR3M record contains movement table data as provided by the TOAs. The data include mode and source of transport for personnel, equipment, and resupply requirements, dates of shipment, and quantity moved. See figures B-27 and B-28.

h. Remarks Record (SR3R). The SR3R record contains general remarks information about force requirements and nonunit-related resupply and personnel requirements defined in the OPLAN. See figures B-29 and B-30.

i. Service Force Definition Record (SR3S). The SR3S record contains specific U.S. Military Service-provided remarks relating to force requirements defined in the OPLAN. See figures B-31 through B-40.

j. Facilities Used Record (SR8). The SR8 record provides summary information for each mobility facility (geographic location) within the OPLAN. It is created and maintained by TFE module TO5. See figures B-41 and B-42.

k. Stranger Record (SRX). The SRX record type is reserved for non-JOPS III site-unique processing. It is a free form record of 222 characters in length. Any SRF record type not described in the preceding paragraphs is considered an SRX record. See figures B-43 and B-44.

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	ISP KEY FIELD; ALWAYS 'SRF '.
2	X(05)	19-23	OPLAN NUMBER	SEE TABLES 1 AND 2.
3	X(18)	24-41	OPLAN DATE	DATE ASSIGNED TO THE OPLAN.
4	X(19)	42-60	OPLAN CLASSIFICATION	SECURITY CLASSIFICATION OF DATA IN THE OPLAN.
5	X(36)	61-96	OPLAN IDENTIFICATION	SPECIFIC OPLAN IDENTIFICATION INFORMATION.
6	X(50)	97-146	TASK ORGANIZATION	DESCRIBES TASK ORGANIZATION FOR THIS OPLAN.
7	X(36)	147-182	OBJECTIVE AREA	DESCRIBES PRIMARY OBJECTIVE AREA OF THIS OPLAN.
8	X(02)	183-184	OPLAN CHANGE NUMBER	SPECIFIES THE CHANGE NUMBER OF THIS OPLAN.
9	X(400)	185-584	CONCEPT OF OPERATIONS	AN ABBREVIATED CONCEPT OF OPERATIONS FOR THIS OPLAN.
10	X(03)	585-587	FIRST AVAILABLE FRN	INTERNAL PROCESSING CONTROL FIELD USED BY JOPS III FRG TO AUTOMATICALLY ASSIGN FORCE REQUIREMENT NUMBERS.
11	X(03)	588-590	LAST AVAILABLE FRN	INTERNAL PROCESSING CONTROL FIELD USED BY JOPS III FRG TO AUTOMATICALLY ASSIGN FORCE REQUIREMENT NUMBERS.
12	X(03)	591-593	LAST RESERVED FRN	INTERNAL PROCESSING CONTROL FIELD USED BY JOPS III FRG TO AUTOMATICALLY ASSIGN FORCE REQUIREMENT NUMBERS.
13	X(187)	594-780	AGENCY RESERVED FRNS	COLUMN REFERENCES 13A-13D OCCUR 17 TIMES AND DEFINE INTERNAL PROCESSING CONTROL FIELDS THAT ARE USED BY JOPS III FRG TO RESERVE UP TO 17 RANGES OF FRN VALUES FOR SPECIFIC AGENCIES.

Figure B-1. SRF IDENT Record Specifications (Part 1 of 2)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
13A	X(01)		AGENCY ORGANIZATION CODE	MUST BE ONE OF THE CODES FROM TABLE 4.
13B	X(03)		AGENCY FIRST FRN	FIRST FRN IN THE RANGE OF AGENCY RESERVED FRNS.
13C	X(03)		AGENCY LAST FRN	LAST FRN IN THE RANGE OF AGENCY RESERVED FRNS.
13D	9(04)		AGENCY TOTAL NUMBER OF FRNS	TOTAL NUMBER OF FRNS IN THE RANGE OF THE FRNS RESERVED FOR THE SPECIFIED AGENCY.
14	9(06)	781-786	TOTAL NUMBER OF SRF RECORDS	A COUNT OF THE TOTAL NUMBER OF RECORDS THAT ARE CONTAINED IN THE SRF.
15	X(06)	787-792	OPLAN OWNER'S UIC	THE UNIT IDENTIFICATION CODE (UIC) OF THE OWNER OF THE DATA IN THIS OPLAN.
16	9(06)	793-798	DATE THIS RECORD WAS CREATED	DATE THIS RECORD WAS FIRST ADDED TO THE SRF (YYMMDD).
17	9(06)	799-804	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN SRF (YYMMDD).
18	X(01)	805-805	NOT USED	FILLER SPACE.
19	9(05)	806-810	FORCE SELECT COUNTER	A CONTROL FIELD USED BY JOPS III FRG TO TRACK THE NUMBER OF FORCE RECORDS CREATED DURING BUILDING AND MAINTENANCE LIFE CYCLE OF THE OPLAN.
20	X(18)	811-828	OPLAN TUCHA DATE	DATE OF THE TUCHA FILE USED WHEN THIS OPLAN WAS INITIALLY CREATED OR DATE OF THE TUCHA FILE WHEN THE TPFDD FILE WAS COMPLETELY UPDATED WITH A NEW TUCHA.
21	X(42)	829-870	RESERVED FOR JOPS III BASELINE SOFTWARE	THIS AREA OF THE RECORD IS CURRENTLY NOT USED AND IS RESERVED FOR POSSIBLE FUTURE ADDITIONS OF DATA ELEMENTS WITHIN THE JOPS III BASELINE SOFTWARE.

Figure B-1. (Part 2 of 2)

```
01  SRF-IDENT-RECORD.
    03  SR1-RECD-KEY.
        05  SR1-RECD-TYPE                      PIC X(04).
        05  SR1-FILLER                         PIC X(14).
    03  SR1-OPLAN-NBR                          PIC X(05).
    03  SR1-OPLAN-DATE                         PIC X(18).
    03  SR1-OPLAN-CLASS                        PIC X(19).
    03  SR1-OPLAN-IDENT                        PIC X(36).
    03  SR1-TASK-ORG                           PIC X(50)
    03  SR1-OBJ-AREA                           PIC X(36).
    03  SR1-OPLAN-CHANGE-NR                    PIC X(02).
    03  SR1-CONCEPT-OF-OPERATIONS.
        05  SR1-CONCEPT-1-80                   PIC X(80).
        05  SR1-CONCEPT-81-160                 PIC X(80).
        05  SR1-CONCEPT-161-240                PIC X(80).
        05  SR1-CONCEPT-241-320                PIC X(80).
        05  SR1-CONCEPT-321-400                PIC X(80).
    03  SR1-FIRST-FRN-AVAIL                    PIC X(03).
    03  SR1-LAST-FRN-AVAIL                     PIC X(03).
    03  SR1-LAST-RESVD-FRN-AVAIL               PIC X(03).
    03  SR1-AGENCY-RSV-FRNS OCCURS 17.
        05  SR1-AGENCY-ORG-CD                  PIC X.
        05  SR1-AGENCY-FIRST-AVAIL-FRN         PIC X(03).
        05  SR1-AGENCY-LAST-AVAIL-FRN          PIC X(03).
        05  SR1-AGENCY-TOTAL-FRNS              PIC 9(04).
    03  SR1-TOTAL-NBR-SRF-RECDDS               PIC 9(06).
    03  SR1-ORIG-UIC                           PIC X(06).
    03  SR1-DATE-RECD-CREATED                  PIC 9(06).
    03  SR1-DATE-RECD-LAST-CHG                 PIC 9(06).
    03  FILLER                                 PIC X.
    03  SR1-FORCE-SELECT                       PIC 9(05).
    03  SR1-TUCHA-DATE                         PIC X(18).
    03  SR1-RESERVED-BASELINE                  PIC X(42).
```

Figure B-2. SRF IDENT Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1E COMPRISE THE KEY FIELD FOR ISP CONTROL.
1A	X(06)	1-6	SPECIAL KEY FILLER	WILL ALWAYS CONTAIN THE VALUE '-SRFFM'.
1B	X(03)	7-9	FORCE MODULE IDENTIFIER	THE FORCE MODULE IDENTIFIER FOR THIS RECORD.
1C	X(01)	10-10	FORCE MODULE RECORD TYPE	ALWAYS VALUE 'A'.
1D	9(02)	11-12	RECORD TYPE SEQUENCE NUMBER	ALWAYS VALUE '01'.
1E	X(06)	13-18	SPECIAL KEY FILLER	ALWAYS VALUE ' '.
2	X(800)	19-818	TITLE DATA	COLUMN REFERENCES 2A-2C OCCUR 10 TIMES AND ARE USED BY THE JOPS III FORCE MODULE SOFTWARE TO STORE UP TO 10 LINES OF TITLE DATA FOR THE FORCE MODULE IDENTIFIED IN COLUMN REFERENCE 1B.
2A	9(03)		TITLE LINE NUMBER	A NUMBER (010-100) THAT UNIQUELY IDENTIFIES EACH TITLE LINE.
2B	X(01)		TITLE LINE FILLER	ALWAYS VALUE ' '.
2C	X(76)		TITLE LINE TEXT	USER FURNISHED TEXTUAL DATA FOR EACH TITLE LINE.
3	X(52)	819-870	NOT USED	FILLER SPACE.

Figure B-3. SRF Force Module A Record Specifications

```
01  SRF-FMA-RECORD.
    03  SRFMA-KEY.
      05  SRFMA-ID                          PIC X(06).
      05  SRFMA-PKG                         PIC X(03).
      05  SRFMA-TYPE                        PIC X(01).
        88  TYPE-A                          VALUE "A".
      05  SRFMA-SEQ                         PIC 9(02).
      05  SRFMA-FILLER                      PIC X(06).
    03  SRFMA-TITLE-DESC.
      05  SRFMA-LINE OCCURS 10.
        07  SRFMA-NBR                       PIC 9(03).
        07  FILLER                          PIC X(01).
        07  SRFMA-TITLE                     PIC X(76).
    03  FILLER                              PIC X(52).
```

Figure B-4. SRF Force Module A Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1E COMPRISE THE ISP KEY.
1A	X(06)	1-6	SPECIAL KEY FILLER	ALWAYS VALUE 'SRFFM'.
1B	X(03)	7-9	FORCE MODULE IDENTIFIER	THE FORCE MODULE IDENTIFIER FOR THIS RECORD.
1C	X(01)	10-10	FORCE MODULE RECORD TYPE	ALWAYS VALUE 'B'.
1D	9(02)	11-12	RECORD TYPE SEQUENCE NUMBER	A NUMBER (01-10) THAT UNIQUELY IDENTIFIES EACH TYPE B RECORD WITHIN A SET OF RECORDS FOR THE FORCE MODULE IDENTIFIED IN COLUMN REFERENCE 1B.
1E	X(06)	13-18	SPECIAL KEY FILLER	ALWAYS VALUE ' '.
2	X(800)	19-818	DESCRIPTION DATA	COLUMN REFERENCES 2A-2C OCCUR 10 TIMES AND ARE USED BY THE JOPS III FORCE MODULE SOFTWARE TO STORE UP TO 10 LINES OF DESCRIPTION DATA FOR THE FORCE MODULE IDENTIFIED IN COLUMN REFERENCE 1B.
2A	9(03)		DESCRIPTION LINE NUMBER	A NUMBER (010-990) THAT UNIQUELY IDENTIFIES EACH DESCRIPTION LINE.
2B	X(01)		DESCRIPTION LINE FILLER	ALWAYS VALUE ' '.
2C	X(76)		DESCRIPTION LINE TEXT	USER FURNISHED TEXTUAL DATA FOR EACH DESCRIPTION LINE.
3	X(52)	819-870	NOT USED	FILLER SPACE.

Figure B-5. SRF Force Module B Record Specifications

```
01  SRF-FMB-RECORD.
    03  SRFMB-KEY
        05  SRFMB-ID                          PIC X(06).
        05  SRFMB-PKG                         PIC X(03).
        05  SRFMB-TYPE                        PIC X(01).
            88  TYPE-B                        VALUE "B".
        05  SRFMB-SEQ                         PIC 9(02).
        05  SRFMB-FILLER                      PIC X(06).
    03  SRFMB-DESC-DESC.
        05  SRFMB-LINE OCCURS 10.
            07  SRFMB-NBR                     PIC 9(03).
            07  FILLER                        PIC X(01).
            07  SRFMB-DESC                    PIC X(76).
    03  FILLER                                PIC X(52).
```

Figure B-6. SRF Force Module B Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1E COMPRISE THE ISP KEY.
1A	X(06)	1-6	SPECIAL KEY FILLER	ALWAYS VALUE ' SRFFM'.
1B	X(03)	7-9	FORCE MODULE IDENTIFIER	THE FORCE MODULE IDENTIFIER FOR THIS RECORD.
1C	X(01)	10-10	FORCE MODULE RECORD TYPE	ALWAYS VALUE 'F'.
1D	9(02)	11-12	RECORD TYPE SEQUENCE NUMBER	A NUMBER (01-50) THAT UNIQUELY IDENTIFIES EACH TYPE F RECORD WITHIN A SET OF RECORDS FOR THE FORCE MODULE IDENTIFIED IN COLUMN REFERENCE 1B.
1E	X(06)	13-18	SPECIAL KEY FILLER	ALWAYS VALUE ' '.
2	X(840)	19-858	INDEX DATA	COLUMN REFERENCE 2A OCCURS 120 TIMES AND IS USED BY JOPS III FORCE MODULE SOFTWARE FOR UP TO 120 UNIT LINE NUMBER (ULN) VALUES FOR THE FORCE MODULE NOTED IN COLUMN REFERENCE 1B.
2A	X(07)		UNIT LINE NUMBER	IDENTIFIES EACH FORCE RECORD IN THE TPFDD FILE WHICH IS ASSOCIATED WITH THE FORCE MODULE NOTED IN COLUMN REFERENCE 1B.
3	X(12)	859-870	NOT USED	FILLER SPACE.

Figure B-7. SRF Force Module F Record Specifications

```
01  SRF-FMF-RECORD.
    03  SRFMF-KEY.
        05  SRFMF-ID                    PIC X(06).
        05  SRFMF-PKG                   PIC X(03).
        05  SRFMF-TYPE                  PIC X(01).
            88  TYPE-F                  VALUE "F".
        05  SRFMF-SEQ                   PIC 9(02).
        05  SRFMF-FILLER                PIC X(06).
    03  SRFMF-INDEX-AREA.
        05  SRFMF-INDEX OCCURS 120      PIC X(07).
    03  FILLER                          PIC X(12).
```

Figure B-8. SRF Force Module F Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1E COMPRISE THE ISP KEY.
1A	X(06)	1-6	SPECIAL KEY FILLER	ALWAYS VALUE ' SRFFM'.
1B	X(03)	7-9	FORCE MODULE IDENTIFIER	THE FORCE MODULE IDENTIFIER FOR THIS RECORD.
1C	X(01)	10-10	FORCE MODULE RECORD TYPE	ALWAYS VALUE 'G'.
1D	9(02)	11-12	RECORD TYPE SEQUENCE NUMBER	A NUMBER (01-50) THAT UNIQUELY IDENTIFIES EACH TYPE G RECORD IN A SET OF RECORDS FOR THE FORCE MODULE IDENTIFIED IN COLUMN REFERENCE 1B.
1E	X(06)	13-18	SPECIAL KEY FILLER	ALWAYS VALUE ' '.
2	X(840)	19-858	INDEX DATA	COLUMN REFERENCE 2A OCCURS 120 TIMES AND IS USED BY JOPS III FORCE MODULE SOFTWARE FOR UP TO 120 CARGO INCREMENT NUMBER VALUES FOR THE FORCE MODULE IDENTIFIED IN COLUMN REFERENCE 1B.
2A	X(07)		CARGO INCREMENT NUMBER	IDENTIFIES EACH NONUNIT CARGO RECORD IN THE TPFDD FILE WHICH IS ASSOCIATED WITH THE FORCE MODULE IDENTIFIED IN COLUMN REFERENCE 1B.
3	X(12)	859-870	NOT USED	FILLER SPACE.

Figure B-9. SRF Force Module G Record Specifications

```
01  SRF-FMG-RECORD.
    03  SRFMG-KEY.
        05  SRFMG-ID                    PIC X(06).
        05  SRFMG-PKG                   PIC X(03).
        05  SRFMG-TYPE                  PIC X(01).
            88  TYPE-G                  VALUE "G".
        05  SRFMG-SEQ                   PIC 9(02).
        05  SRFMG-FILLER                PIC X(06).
    03  SRFMG-INDEX-AREA.
        05  SRFMG-INDEX OCCURS 120      PIC X(07).
    03  FILLER                          PIC X(12).
```

Figure B-10. SRF Force Module G Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1E COMPRISE THE ISP KEY.
1A	X(06)	1-6	SPECIAL KEY FILLER	ALWAYS VALUE 'SRFFM'.
1B	X(03)	7-9	FORCE MODULE IDENTIFIER	THE FORCE MODULE IDENTIFIER FOR THIS RECORD.
1C	X(01)	10-10	FORCE MODULE RECORD TYPE	ALWAYS VALUE 'J'.
1D	9(02)	11-12	RECORD TYPE SEQUENCE NUMBER	A NUMBER (01-50) THAT UNIQUELY IDENTIFIES EACH TYPE J RECORD WITHIN A SET OF RECORDS FOR THE FORCE MODULE IDENTIFIED IN COLUMN REFERENCE 1B.
1E	X(06)	13-18	SPECIAL KEY FILLER	ALWAYS VALUE ' '.
2	X(840)	19-858	INDEX DATA	COLUMN REFERENCE 2A OCCURS 120 TIMES AND IS USED BY JOPS III FORCE MODULE SOFTWARE FOR UP TO 120 PERSONNEL INCREMENT NUMBER VALUES FOR THE FORCE MODULE IN COLUMN REFERENCE 1B.
2A	X(07)		PERSONNEL INCREMENT NUMBER	IDENTIFIES EACH NONUNIT PERSONNEL RECORD IN THE TPFDD FILE WHICH IS ASSOCIATED WITH THE FORCE MODULE IDENTIFIED IN COLUMN REFERENCE 1B.
3	X(12)	859-870	NOT USED	FILLER SPACE.

Figure B-11. SRF Force Module J Record Specifications

```
01  SRF-FMJ-RECORD.
    03  SRFMJ-KEY.
        05  SRFMJ-ID                          PIC X(06).
        05  SRFMJ-PKG                         PIC X(03).
        05  SRFMJ-TYPE                        PIC X(01).
            88  TYPE-J                        VALUE "J".
        05  SRFMJ-SEQ                         PIC 9(02).
        05  SRFMJ-FILLER                      PIC X(06).
    03  SRFMJ-INDEX-AREA.
        05  SRFMJ-INDEX OCCURS 120            PIC X(07).
    03  FILLER                                PIC X(12).
```

Figure B-12. SRF Force Module J Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1F COMPRISE THE ISP KEY.
1A	X(01)	1-1	PRIMARY RECORD TYPE	ALWAYS VALUE '3'.
1B	X(01)	2-2	TPFDD RECORD TYPE	ALWAYS VALUE SPACE FOR A FORCE RECORD RELATION.
1C	X(05)	3-7	FORCE REQUIREMENT NUMBER (FRN)	CONTAINS THE FRN OF THE FRAG AND INSERT RECORDS IN THE TPFDD RELATED TO THIS RECORD. SEE TABLE 3.
1D	X(02)	8-9	SPECIAL KEY FILLER	ALWAYS VALUE ' '.
1E	X(01)	10-10	SECONDARY RECORD TYPE	ALWAYS VALUE 'A'.
1F	X(08)	11-18	SPECIAL KEY FILLER	ALWAYS VALUE '00000000'.
2	X(01)	19-19	PROVIDING ORGANIZATION	SEE TABLE 4.
3	X(01)	20-20	SERVICE CODE	SEE TABLE 5.
4	X(05)	21-25	UNIT TYPE CODE	SEE TABLE 6.
5	X(03)	26-28	UNIT LEVEL CODE	SEE TABLE 7.
6	X(31)	29-59	FORCE DESCRIPTION	FREE-FORM LONG NAME.
7	X(05)	60-64	FORCE DESCRIPTION (SERVICE RESERVED)	RESERVED FOR SERVICE USE.
8	9(01)	65-65	FORCE INDICATOR CODE	SEE TABLE 8.
9	9(05)	66-70	PERSONNEL STRENGTH	AUTHORIZED WARTIME STRENGTH AS DEFINED IN THE TUCHA FILE OR THE VALUE SUPPLIED BY THE FORCE PLANNER FOR A NONSTANDARD UNIT.
10	X(01)	71-71	PARENT INDICATOR CODE	SEE TABLE 3.
11	X(01)	72-72	PREFERRED MODE OF TRANSPORT TO THE INTERMEDIATE	SEE TABLE 9.
12	X(01)	73-73	PREFERRED SOURCE OF TRANSPORT TO THE INTERMEDIATE	SEE TABLE 9.

Figure B-13. SRF Force Definition Record Specifications (Part 1 of 3)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
13	X(01)	74-74	LOAD CONFIGURATION TO THE INTERMEDIATE	SEE TABLE 10.
14	X(02)	75-76	DISCHARGE CONSTRAINTS AT THE INTERMEDIATE	SEE TABLE 11.
15	X(04)	77-80	INTERMEDIATE LOCATION GEOLOC CODE	SEE TABLE 12.
16	9(03)	81-83	DAYS DELAY AT THE INTERMEDIATE LOCATION	INDICATES THE NUMBER OF DAYS THE UNIT WILL DELAY AT THE INTERMEDIATE LOCALE.
17	X(01)	84-84	TYPE OF DELAY AT THE INTERMEDIATE LOCATION	A CODE INDICATING IF THE ENTIRE FORCE ENTRY MUST REMAIN AS A UNIT AT THE INTERMEDIATE LOCATION (CODE 'T'), OR TO PART OF THE FORCE (CODE 'F').
18	X(01)	85-85	LOCATION CODE FOR THE INTERMEDIATE STOP	SEE TABLE 13.
19	X(01)	86-86	PREFERRED MODE OF TRANSPORT TO THE POD	SEE TABLE 9.
20	X(01)	87-87	PREFERRED SOURCE OF TRANSPORT TO THE POD	SEE TABLE 9.
21	X(01)	88-88	LOAD CONFIGURATION TO THE POD	SEE TABLE 10.
22	X(02)	89-90	DISCHARGE CONSTRAINTS AT THE POD	SEE TABLE 11.
23	X(04)	91-94	POD GEOLOC CODE	SEE TABLE 12.
24	X(04)	95-98	POD EARLIEST ARRIVAL DATE (EAD)	THE EARLIEST DAY THE UNIT MAY ARRIVE AT THE POD; SEE TABLE 14.
25	X(04)	99-102	POD LATEST ARRIVAL DATE (LAD)	THE LATEST DAY BY WHICH THE UNIT MUST ARRIVE AND COMPLETE UNLOADING AT THE POD; SEE TABLE 14.
26	9(03)	103-105	PRIORITY FOR ARRIVAL AT THE POD	INDICATES THE DESIRED ARRIVAL SEQUENCE (001-999) ON THE LAD AT THE POD.

Figure B-13. (Part 2 of 3)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
27	X(01)	106-106	PRIORITY ADD-ON	USED TO INSERT A UNIT INTO THE PRIORITY SEQUENCE.
28	X(01)	107-107	PREFERRED MODE OF TRANSPORT TO THE DEST	SEE TABLE 9.
29	X(01)	108-108	PREFERRED SOURCE OF TRANSPORT TO THE DEST	SEE TABLE 9.
30	X(01)	109-109	LOAD CONFIGURATION TO THE DESTINATION	SEE TABLE 10.
31	X(02)	110-111	DISCHARGE CONSTRAINTS AT THE DESTINATION	SEE TABLE 11.
32	X(04)	112-115	DESTINATION GEOLOC CODE	SEE TABLE 12.
33	X(04)	116-119	DESTINATION REQUIRED DELIVERY DATE (RDD)	THE LATEST DAY BY WHICH THE THE UNIT MUST ARRIVE AND AND COMPLETE UNLOADING AT ITS FINAL DESTINATION; SEE TABLE 14.
34	X(06)	120-125	NOT USED	FILLER SPACE.
35	X(01)	126-126	SELECT CODE	INTERNAL PROCESSING CONTROL FIELD USED BY JOPS III FRG; NORMAL VALUE IS SPACE.
36	9(06)	127-132	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN SRF (YYMMDD).

Figure B-13. (Part 3 of 3)

```
01   SRF-SR3A-RECORD.
     03  SR3A-RECD-KEY.
         05  SR3A-RECD-TYPE                  PIC X(02).
         05  SR3A-FRN                        PIC X(05).
         05  SR3A-FILLER-1                   PIC X(02).
         05  SR3A-SUBRECD-TYPE               PIC X.
         05  SR3A-FILLER-2                   PIC X(08).
     03  SR3A-PRORG                          PIC X.
     03  SR3A-SERVICE                        PIC X.
     03  SR3A-UTC                            PIC X(05).
     03  SR3A-ULC                            PIC X(03).
     03  SR3A-FORCE-DESCRIPTION              PIC X(31).
     03  SR3A-FORCE-DESC-RSVD                PIC X(05).
     03  SR3A-FIC                            PIC 9.
     03  SR3A-AUTH-PERS                      PIC 9(05).
     03  SR3A-PIC                            PIC X.
     03  SR3A-IL-PREF-MODE                   PIC X.
     03  SR3A-IL-PREF-SOURCE                 PIC X.
     03  SR3A-IL-LOAD-CONFIG                 PIC X.
     03  SR3A-IL-DISCHARGE-CON               PIC X(02).
     03  SR3A-IL-GEOLOC-CD                   PIC X(04).
     03  SR3A-IL-DAYS-DELAY                  PIC 9(03).
     03  SR3A-IL-TYPE-DELAY                  PIC X.
     03  SR3A-IL-LOCATION-STOP               PIC X.
     03  SR3A-POD-PREF-MODE                  PIC X.
     03  SR3A-POD-PREF-SOURCE                PIC X.
     03  SR3A-POD-LOAD-CONFIG                PIC X.
     03  SR3A-POD-DISCHARGE-CON              PIC X(02).
     03  SR3A-POD-GEOLOC-CD                  PIC X(04).
     03  SR3A-POD-EARLY-ARR-DATE             PIC X(04).
     03  SR3A-POD-LATEST-ARR-DATE            PIC X(04).
     03  SR3A-POD-PRIORITY                   PIC 9(03).
     03  SR3A-POD-PRIOR-ADD-ON               PIC X.
     03  SR3A-DEST-PREF-MODE                 PIC X.
     03  SR3A-DEST-PREF-SOURCE               PIC X.
     03  SR3A-DEST-LOAD-CONFIG               PIC X.
     03  SR3A-DEST-DISCHARGE-CON             PIC X(02).
     03  SR3A-DEST-GEOLOC-CD                 PIC X(04).
     03  SR3A-DEST-REQ-DELIVERY-DATE         PIC X(04).
     03  FILLER                              PIC X(06).
     03  SR3A-SELECT                         PIC X.
     03  SR3A-DATE-RECD-LAST-CHG             PIC 9(06).
```

Figure B-14. SRF Force Definition Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1F COMPRISE THE KEY FIELD FOR ISP CONTROL.
1A	X(01)	1-1	RECORD TYPE	WILL ALWAYS CONTAIN A "3".
1B	X(01)	2-2	TPFDD RECORD TYPE	WILL ALWAYS CONTAIN A "G".
1C	X(07)	3-9	CARGO INCREMENT NUMBER (CIN)	WILL MATCH CIN FOR ASSOCIATED TPFDD RECORD.
1D	X(01)	10-10	SECONDARY RECORD TYPE	WILL ALWAYS CONTAIN AN "H".
1E	X(05)	11-15	CARGO CATEGORY	WILL ALWAYS CONTAIN A "J" IN COLUMN 11 TO INDICATE GENERAL CARGO. COLUMN 12 WILL ALWAYS CONTAIN A "D" TO INDICATE BULK CARGO. COLUMN 13 WILL CONTAIN A "D" OR "B" TO INDICATE NONCONTAINERIZABLE OR CONTAINERIZABLE. COLUMNS 14 AND 15 CONTAIN "XX".
1F	X(03)	16-18	FILLER	WILL ALWAYS CONTAIN BLANKS.
2	9(5)V9	19-24	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 1A
3	9(06)	25-30	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 1A
4	9(5)V9	31-36	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 1C
5	9(06)	37-42	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 1C
6	9(5)V9	43-48	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 1S
7	9(06)	49-54	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 1S
8	9(5)V9	55-60	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 2A
9	9(06)	61-66	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 2A

Figure B-15. SRF Nonunit General Cargo Record Specifications (Part 1 of 5)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
10	9(5)V9	67-72	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 2B
11	9(06)	73-78	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 2B
12	9(5)V9	79-84	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 2E
13	9(06)	85-90	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 2E
14	9(5)V9	91-96	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 2F
15	9(06)	97-102	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 2F
16	9(5)V9	103-108	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 2G
17	9(06)	109-114	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 2G
18	9(5)V9	115-120	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 2M
19	9(06)	121-126	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 2M
20	9(5)V9	127-132	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 2T
21	9(06)	133-138	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 2T
22	9(5)V9	139-144	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 3P
23	9(06)	145-150	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 3P
24	9(5)V9	151-156	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 4A
25	9(06)	157-162	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 4A

Figure B-15. (Part 2 of 5)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
26	9(5)V9	163-168	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 4B
27	9(06)	169-174	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 4B
28	9(5)V9	175-180	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR CLASS 6
29	9(06)	181-186	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR CLASS 6
30	9(5)V9	187-192	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 7A
31	9(06)	193-198	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 7A
32	9(5)V9	199-204	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 7B
33	9(06)	205-210	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 7B
34	9(5)V9	211-216	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 7D
35	9(06)	217-222	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 7D
36	9(5)V9	223-228	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 7G
37	9(06)	229-234	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 7G
38	9(5)V9	235-240	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 7J
39	9(06)	241-246	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 7J
40	9(5)V9	247-252	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 7K
41	9(06)	253-258	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 7K
42	9(5)V9	259-264	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 7L

Figure B-15. (Part 3 of 5)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
43	9(06)	265-270	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 7L
44	9(5)V9	271-276	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 7M
45	9(06)	277-282	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 7M
46	9(5)V9	283-288	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 7N
47	9(06)	289-294	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 7N
48	9(5)V9	295-300	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 7X
49	9(06)	301-306	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 7X
50	9(5)V9	307-312	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 8A
51	9(06)	313-318	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 8A
52	9(5)V9	319-324	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 9A
53	9(06)	325-330	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 9A
54	9(5)V9	331-336	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 9B
55	9(06)	337-342	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 9B
56	9(5)V9	343-348	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 9D
57	9(06)	349-354	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 9D
58	9(5)V9	355-360	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 9G

Figure B-15. (Part 4 of 5)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
59	9(06)	361-366	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 9G
60	9(5)V9	367-372	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 9K
61	9(06)	373-378	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 9K
62	9(5)V9	379-384	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 9L
63	9(06)	385-390	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 9L
64	9(5)V9	391-396	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 9M
65	9(06)	397-402	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 9M
66	9(5)V9	403-408	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 9N
67	9(06)	409-414	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 9N
68	9(5)V9	415-420	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 9T
69	9(06)	421-426	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 9T
70	9(5)V9	427-432	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 9X
71	9(06)	433-438	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 9X
72	9(5)V9	439-444	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR CLASS 0
73	9(06)	445-450	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR CLASS 0
74	X(11)	451-461	NOT USED	FILLER SPACE.
75	X(01)	462-462	SELECT CODE	INTERNAL PROCESSING CONTROL FIELD USED BY JOPS III FRG; NORMAL VALUE IS SPACE.

Figure B-15. (Part 5 of 5)

```
01  SRF-GENL-RCD.
    03  SR3H-GENL-RECD-KEY.
        05  SR3H-GENL-RECD-TYPE                    PIC X(02).
        05  SR3H-GENL-CIN.
            07  SR3H-GENL-USING-ORG                PIC X(01).
            07  SR3H-GENL-TYPE-MOVE                PIC X(01).
            07  SR3H-GENL-SEQ-NBR                  PIC 9(05).
        05  SR3H-GENL-SUBRECD-TYPE                 PIC X(01).
        05  SR3H-GENL-CARGO-CATEGORY.
            07  SR3H-GENL-CCC.
                09  SR3H-GENL-CCC1                 PIC X(01).
                09  SR3H-GENL-CCC2                 PIC X(01).
                09  SR3H-GENL-CCC3                 PIC X(01).
            07  SR3H-GENL-SC                       PIC X(02).
        05  FILLER                                 PIC X(03).
    03  SR3H-GENL-SUBCLASS OCCURS 36 TIMES.
*                                                               *
*                                                               *
*   01 = 1A  02 = 1C  03 = 1S  04 = 2A  05 = 2B  06 = 2E        *
*   07 = 2F  08 = 2G  09 = 2M  10 = 2T  11 = 3P  12 = 4A        *
*   13 = 4B  14 = 6   15 = 7A  16 = 7B  17 = 7D  18 = 7G        *
*   19 = 7J  20 = 7K  21 = 7L  22 = 7M  23 = 7N  24 = 7X        *
*   25 = 8A  26 = 9A  27 = 9B  28 = 9D  29 = 9G  30 = 9K        *
*   31 = 9L  32 = 9M  33 = 9N  34 = 9T  35 = 9X  36 = 0         *
*                                                               *
*                                                               *
        05  SR3H-GENL-STONS                       PIC 9(05)V9.
        05  SR3H-GENL-MTONS                      PIC 9(06).
    03  SR3H-GENL-SPECIAL-CONTROL.
        05  FILLER                                 PIC X(11).
        05  SR3H-GENL-SELECT                       PIC X(01).
```

Figure B-16. SRF Nonunit General Cargo Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1F COMPRISE THE KEY FIELD FOR ISP CONTROL.
1A	X(01)	1-1	RECORD TYPE	WILL ALWAYS CONTAIN A "3".
1B	X(01)	2-2	TPFDD RECORD TYPE	WILL ALWAYS CONTAIN A "G".
1C	X(07)	3-9	CARGO INCREMENT NUMBER (CIN)	WILL MATCH CIN FOR ASSOCIATED TPFDD RECORD.
1D	X(01)	10-10	SECONDARY RECORD TYPE	WILL ALWAYS CONTAIN AN "H".
1E	X(05)	11-15	CARGO CATEGORY	WILL ALWAYS CONTAIN AN "M" IN COLUMN 11 TO INDICATE AMMUNITION. COLUMN 12 WILL ALWAYS CONTAIN A "D" TO INDICATE BULK CARGO. COLUMN 13 WILL CONTAIN A "D" OR "B" TO INDICATE NONCONTAINERIZABLE OR CONTAINERIZABLE. COLUMNS 14 AND 15 CONTAIN "XX".
1F	X(03)	16-18	FILLER	WILL ALWAYS CONTAIN BLANKS.
2	9(5)V9	19-24	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 5A
3	9(06)	25-30	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 5A
4	9(5)V9	31-36	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 5W
5	9(06)	37-42	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 5W
6	X(05)	43-47	NOT USED	FILLER SPACE.
7	X(01)	48-48	SELECT CODE	INTERNAL PROCESSING CONTROL FIELD USED BY JOPS III FRG; NORMAL VALUE IS SPACE.

Figure B-17. SRF Nonunit Ammunition Record Specifications

```
01  SRF-AMMO-RCD.
    03  SR3H-AMMO-RECD-KEY.
        05  SR3H-AMMO-RECD-TYPE                    PIC X(02).
        05  SR3H-AMMO-CIN.
            07  SR3H-AMMO-USING-ORG                PIC X(01).
            07  SR3H-AMMO-TYPE-MOVE                PIC X(01).
            07  SR3H-AMMO-SEQ-NBR                  PIC 9(05).
        05  SR3H-AMMO-SUBRECD-TYPE                 PIC X(01).
        05  SR3H-AMMO-CARGO-CATEGORY.
            07  SR3H-AMMO-CCC.
                09  SR3H-AMMO-CCC1                 PIC X(01).
                09  SR3H-AMMO-CCC2                 PIC X(01).
                09  SR3H-AMMO-CCC3                 PIC X(01).
            07  SR3H-AMMO-SC                       PIC X(02).
        05  FILLER                                 PIC X(03).
    03  SR3H-AMMO-SUBCLASS OCCURS 2 TIMES.
*                                  *
*                                  *
*   01 = 5A (AMMUNITION - AIR)     *
*   02 = 5W (AMMUNITION - GROUND)  *
*                                  *
*                                  *
        05  SR3H-AMMO-STONS                        PIC 9(05)V9.
        05  SR3H-AMMO-MTONS                        PIC 9(06).
    03  SR3H-AMMO-SPECIAL-CONTROL.
        05  FILLER                                 PIC X(05).
        05  SR3H-AMMO-SELECT                       PIC X(01).
```

Figure B-18. SRF Nonunit Ammunition Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1F COMPRISE THE KEY FIELD FOR ISP CONTROL.
1A	X(01)	1-1	RECORD TYPE	WILL ALWAYS CONTAIN A "3".
1B	X(01)	2-2	TPFDD RECORD TYPE	WILL ALWAYS CONTAIN A "G".
1C	X(07)	3-9	CARGO INCREMENT NUMBER (CIN)	WILL MATCH CIN FOR ASSOCIATED TPFDD RECORD.
1D	X(01)	10-10	SECONDARY RECORD TYPE	WILL ALWAYS CONTAIN AN "H".
1E	X(05)	11-15	CARGO CATEGORY	WILL ALWAYS CONTAIN AN "F" IN COLUMN 11 TO INDICATE REFRIGERATED CARGO. COLUMN 12 WILL ALWAYS CONTAIN A "D" TO INDICATE BULK CARGO. COLUMN 13 WILL CONTAIN A "D" OR "B" TO INDICATE NONCONTAINERIZABLE OR CONTAINERIZABLE. COLUMNS 14 AND 15 WILL CONTAIN "XX".
1F	X(03)	16-18	FILLER	WILL ALWAYS CONTAIN BLANKS.
2	9(5)V9	19-24	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 1R
3	9(06)	25-30	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 1R
4	9(5)V9	31-36	CARGO WEIGHT (S/T)	TOTAL SHORT TONS FOR SUBCLASS 8B
5	9(06)	37-42	CARGO CUBE (M/T)	TOTAL MEASUREMENT TONS FOR SUBCLASS 8B
6	X(05)	43-47	NOT USED	FILLER SPACE.
7	X(01)	48-48	SELECT CODE	INTERNAL PROCESSING CONTROL FIELD USED BY JOPS III FRG; NORMAL VALUE IS SPACE.

Figure B-19. SRF Nonunit Refrigerated Record Specifications

```
01  SRF-REFRIG-RCD.
    03  SR3H-REF-RECD-KEY.
        05  SR3H-REF-RECD-TYPE                    PIC X(02).
        05  SR3H-REF-CIN.
            07  SR3H-REF-USING-ORG                PIC X(01).
            07  SR3H-REF-TYPE-MOVE                PIC X(01).
            07  SR3H-REF-SEQ-NBR                  PIC 9(05).
        05  SR3H-REF-SUBRECD-TYPE                 PIC X(01).
        05  SR3H-REF-CARGO-CATEGORY.
            07  SR3H-REF-CCC.
                09  SR3H-REF-CCC1                 PIC X(01).
                09  SR3H-REF-CCC2                 PIC X(01).
                09  SR3H-REF-CCC3                 PIC X(01).
            07  SR3H-REF-SC                       PIC X(02).
        05  FILLER                                PIC X(03).
    03  SR3H-REF-SUBCLASS OCCURS 2 TIMES.
*                                                  *
*                                                  *
*   01 = 1R (REFRIGERATED SUBSISTENCE)             *
*   02 - 8B (BLOOD/FLUIDS)                         *
*                                                  *
*                                                  *
        05  SR3H-REF-STONS                        PIC 9(05)V9.
        05  SR3H-REF-MTONS                        PIC 9(06).
    03  SR3H-REF-SPECIAL-CONTROL.
        05  FILLER                                PIC X(05).
        05  SR3H-REF-SELECT                       PIC X(01).
```

Figure B-20. SRF Nonunit Refrigerated Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1F COMPRISE THE KEY FIELD FOR ISP CONTROL.
1A	X(01)	1-1	RECORD TYPE	WILL ALWAYS CONTAIN A "3".
1B	X(01)	2-2	TPFDD RECORD TYPE	WILL ALWAYS CONTAIN A "C".
1C	X(07)	3-9	CARGO INCREMENT NUMBER (CIN)	WILL MATCH CIN FOR ASSOCIATED TPFDD RECORD.
1D	X(01)	10-10	SECONDARY RECORD TYPE	WILL ALWAYS CONTAIN AN "H".
1E	X(05)	11-15	CARGO CATEGORY	WILL ALWAYS CONTAIN A "GAD" IN COLUMNS 11-13 TO INDICATE BULK POL. COLUMNS 14 AND 15 WILL CONTAIN "XX".
1F	X(03)	16-18	FILLER	WILL ALWAYS CONTAIN BLANKS.
2	9(06)	19-24	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE DFA
3	9(06)	25-30	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE DFM
4	9(06)	31-36	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE DFS
5	9(06)	37-42	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE DFW
6	9(06)	43-48	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE DF1
7	9(06)	49-54	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE DF2
8	9(06)	55-60	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE FSL
9	9(06)	61-66	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE FS1
10	9(06)	67-72	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE FS2

Figure B-21. SRF Nonunit POL Record Specifications (Part 1 of 4)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
11	9(06)	73-78	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE FS4
12	9(06)	79-84	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE FS5
13	9(06)	85-90	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE FS6
14	9(06)	91-96	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE GUP
15	9(06)	97-102	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE GUR
16	9(06)	103-108	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE GUS
17	9(06)	109-114	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE JAA
18	9(06)	115-120	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE JAB
19	9(06)	121-126	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE JA1
20	9(06)	127-132	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE JPX
21	9(06)	133-138	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE JP4
22	9(06)	139-144	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE JP5
23	9(06)	145-150	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE JP8
24	9(06)	151-156	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE JTS
25	9(06)	157-162	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE KSD
26	9(06)	163-168	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE KSN

Figure B-21. (Part 2 of 4)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
27	9(06)	169-174	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE MGP
28	9(06)	175-180	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE MGR
29	9(06)	181-186	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE MGU
30	9(06)	187-192	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE MGX
31	9(06)	193-198	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE MG1
32	9(06)	199-204	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE MG2
33	9(06)	205-210	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE MLP
34	9(06)	211-216	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE MLR
35	9(06)	217-222	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE MUP
36	9(06)	223-228	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE MUR
37	9(06)	229-234	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE MUS
38	9(06)	235-240	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE MDF
39	9(06)	241-246	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE MSF
40	9(06)	247-252	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE SII
41	9(06)	253-258	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE 130
42	9(06)	259-264	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE 131

Figure B-21. (Part 3 of 4)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
43	9(06)	265-270	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE 145
44	9(06)	271-276	CBBLS	HUNDREDS OF BARRELS FOR FUEL CODE 887
45	X(23)	277-299	NOT USED	FILLER SPACE.
46	X(01)	300-300	SELECT CODE	INTERNAL PROCESSING CONTROL FIELD USED BY JOPS III FRG; NORMAL VALUE IS SPACE.

Figure B-21. (Part 4 of 4)

```
01  SRF-POL-RCD.
    03  SR3H-POL-RECD-KEY.
        05  SR3H-POL-RECD-TYPE                    PIC X(02).
        05  SR3H-POL-CIN.
            07  SR3H-POL-USING-ORG                PIC X(01).
            07  SR3H-POL-TYPE-MOVE                PIC X(01).
            07  SR3H-POL-SEQ-NBR                  PIC 9(05).
        05  SR3H-POL-SUBRECD-TYPE                 PIC X(01).
        05  SR3H-POL-CARGO-CATEGORY.
            07  SR3H-POL-CCC.
                09  SR3H-POL-CCC1                 PIC X(01).
                09  SR3H-POL-CCC2                 PIC X(01).
                09  SR3H-POL-CCC3                 PIC X(01).
            07  SR3H-POL-SC                       PIC X(02).
        05  FILLER                                PIC X(03).
    03  SR3H-POL-FUEL-CODE OCCURS 43 TIMES.
*                                                          *
*                                                          *
*  01 = DFA  02 = DFM  03 = DFS  04 = DFW  05 = DF1        *
*  06 = DF2  07 = FSL  08 = FS1  09 = FS2  10 = FS4        *
*  11 = FS5  12 = FS6  13 = GUP  14 = GUR  15 = GUS        *
*  16 = JAA  17 = JAB  18 = JA1  19 = JPX  20 = JP4        *
*  21 = JP5  22 = JP8  23 = JTS  24 = KSD  25 = KSN        *
*  26 = MGP  27 = MGR  28 = MGU  29 = MGX  30 = MG1        *
*  31 = MG2  32 = MLP  33 = MLR  34 = MUP  35 = MUR        *
*  36 = MUS  37 = NDF  38 = NSF  39 = SII  40 = 130        *
*  41 = 131  42 = 145  43 = 887                            *
*                                                          *
*                                                          *
        05  SR3H-POL-CBBLS                       PIC 9(06).
    03  SR3H-POL-SPECIAL-CONTROL.
        05  FILLER                                PIC X(23).
        05  SR3H-POL-SELECT                       PIC X(01).
```

Figure B-22. SRF Nonunit POL Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1C COMPRISE THE ISP KEY.
1A	X(01)	1-1	PRIMARY RECORD TYPE	ALWAYS VALUE '3'.
1B	X(01)	2-2	TPFDD RECORD TYPE	ALWAYS VALUE SPACE FOR A FORCE RECORD RELATION.
1C	X(07)	3-9	UNIT LINE NUMBER (ULN)	USED TO RELATE THIS CARGO RECORD TO THE ASSOCIATED ULN IN THE TPFDD FILE.
1D	X(01)	10-10	SECONDARY RECORD TYPE	ALWAYS VALUE 'K'.
1E	X(03)	11-13	CARGO CATEGORY CODE	SEE TABLE 18.
1F	9(03)	14-16	RECORD IDENTIFICATION	ALWAYS VALUE '000'.
1G	X(02)	17-18	SPECIAL KEY FILLER	ALWAYS VALUE '00'.
2	9(06)	19-24	CARGO SQUARE FEET	THE NUMBER OF SQUARE FEET OF SURFACE SPACE REQUIRED BY THE CARGO CATEGORY CODE.
3	9(5)V9	25-30	CARGO WEIGHT (S/T)	THE WEIGHT, IN SHORT TONS OF THE CARGO DESCRIBED BY THIS CARAGO CATEGORY CODE.
4	9(06)	31-36	CARGO CUBE (M/T)	THE CUBE, IN MEASUREMENT TONS OF THE CARGO DESCRIBED BY THE CARGO CATEGORY CODE.
5	9(06)	37-42	CARGO BULK POL (CBBLS)	THE AMOUNT OF POL, IN HUNDREDS OF BARRELS, DESCRIBED BY THIS CARGO CATEGORY CODE; NOTE, APPLICABLE ONLY WHEN FIRST POSITION OF CARGO CATEGORY CODE IS 'G'.
6	X(01)	43-43	HEAVY LIFT AND DIMENSION CATEGORY CODE	A CODE FROM TABLE 19 THAT EQUATES TO THE HEAVIEST ITEM AND THE GREATEST DIMENSION OF THE LARGEST ITEM.

Figure B-23. SRF Force Cargo Category Record Specifications (Part 1 of 2)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
7	9(03)	44-46	ACTUAL COUNT OF CARGO DETAIL RECORDS	THE COMPUTED NUMBER OF CARGO DETAIL RECORDS ASSOCIATED WITH THIS CARGO CATEGORY CODE.
8	9(03)	47-49	REQUIRED NUMBER OF CARGO DETAIL RECORDS	THE NUMBER OF CARGO DETAIL RECORDS THAT SHOULD BE SUBMITTED FOR THIS CARGO CATEGORY CODE.
9	X(01)	50-50	AGGREGATION SWITCH	AN INTERNAL PROCESSING CONTROL FIELD USED TO DENOTE WHETHER THE WEIGHT, CUBE, AND SQUARE FEET FIELDS OF THIS RECORD WERE DERIVED BY SUMMING THE ASSOCIATED CARGO DETAIL RECORDS.
10	X(15)	51-65	NOT USED	FILLER SPACE.
11	X(01)	66-66	SELECT CODE	INTERNAL PROCESSING CONTROL FIELD USED BY JOPS III FRG; VALUE NORMALLY SPACE.
12	9(06)	67-72	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN SRF (YYMMDD).

Figure B-23. (Part 2 of 2)

```
01  SRF-SR3K-RECORD.
    03  SR3K-RECD-KEY.
        05  SR3K-RECD-TYPE                    PIC X(02).
        05  SR3K-UNIT-LINE-NBR.
            07  SR3K-FRN                      PIC X(05).
            07  SR3K-FRAG                     PIC X.
            07  SR3K-INSERT                   PIC X.
        05  SR3K-SUBRECD-TYPE                 PIC X.
        05  SR3K-CARGO-CATEGORY-CODE
            07  SR3K-CAT1                     PIC X.
            07  SR3K-CAT2                     PIC X.
            07  SR3K-CAT3                     PIC X.
        05  SR3K-IDENT-NBR                    PIC 9(03).
        05  SR3K-FILLER                       PIC X(02).
    03  SR3K-CARGO-SQ-FT                      PIC 9(06).
    03  SR3K-CARGO-STONS                      PIC 9(05)V9.
    03  SR3K-CARGO-MTONS                      PIC 9(06).
    03  SR3K-CARGO-BULK-POL                   PIC 9(06).
    03  SR3K-HEAVY-LIFT-DIM-CD                PIC X.
    03  SR3K-TOT-NBR-CARGO-DETAILS            PIC 9(03).
    03  SR3K-RPT-NBR-CARGO-DETAILS            PIC 9(03).
    03  SR3K-AGG-SWITCH                       PIC X.
    03  FILLER                                PIC X(15).
    03  SR3K-SELECT                           PIC X.
    03  SR3K-DATE-RECD-LAST-CHG               PIC 9(06).
```

Figure B-24. SRF Force Cargo Category Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1G COMPRISE THE ISP KEY.
1A	X(01)	1-1	PRIMARY RECORD TYPE	ALWAYS VALUE '3'.
1B	X(01)	2-2	TPFDD RECORD TYPE	ALWAYS VALUE SPACE FOR A FORCE RECORD RELATION.
1C	X(07)	3-9	UNIT LINE NUMBER (ULN)	USED TO RELATE THIS CARGO RECORD TO THE ASSOCIATED ULN IN THE TPFDD FILE.
1D	X(01)	10-10	SECONDARY RECORD TYPE	ALWAYS VALUE 'K'.
1E	X(03)	11-13	CARGO CATEGORY CODE	SEE TABLE 18.
1F	9(03)	14-16	RECORD IDENTIFICATION NUMBER	A NUMBER (001-999) THAT UNIQUELY IDENTIFIES EACH CARGO DETAIL RECORD WITHIN THE CARGO CATEGORY CODE DEFINED IN COLUMN REFERENCE 1E.
1G	X(02)	17-18	SPECIAL KEY FILLER	ALWAYS VALUE '00'.
2	X(14)	19-32	CARGO DESCRIPTION	A DESCRIPTION OF THE ITEM OF EQUIPMENT THAT IS DESCRIBED BY THIS RECORD.
3	9(04)	33-36	CARGO LENGTH	THE LENGTH, IN INCHES, OF ONE PIECE OF THE EQUIPMENT DESCRIBED BY THIS RECORD.
4	9(03)	37-39	CARGO WIDTH	THE WIDTH, IN INCHES, OF ONE PIECE OF THE EQUIPMENT DESCRIBED BY THIS RECORD.
5	9(03)	40-42	CARGO HEIGHT	THE HEIGHT, IN INCHES, OF ONE PIECE OF THE EQUIPMENT DESCRIBED BY THIS RECORD.
6	9(04)	43-46	CARGO SQUARE FEET	THE NUMBER OF SQUARE FEET OF SURFACE SPACE THAT ONE PIECE OF THIS EQUIPMENT REQUIRES.
7	9(03)	47-49	NUMBER OF PIECES	THE NUMBER OF PIECES OF THE ITEM OF EQUIPMENT THAT IS DESCRIBED BY THIS RECORD.

Figure B-25. SRF Force Cargo Detail Record Specifications (Part 1 of 2)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
8	9(5)V9	50-55	CARGO WEIGHT (S/T)	THE WEIGHT, IN SHORT TONS, OF ONE PIECE OF EQUIPMENT DESCRIBED BY THIS RECORD.
9	9(5)V9	56-61	CARGO CUBE (M /T)	THE CUBE, IN MEASUREMENT TONS, OF ONE PIECE OF THE EQUIPMENT THAT IS DESCRIBED BY THIS RECORD.
10	X(04)	62-6!	NOT USED	FILLER SPACE.
11	X(01)	66-66	SELECT CODE	INTERNAL PROCESSING CONTROL FIELD USED BY JOPS III FRG; VALUE IS NORMALLY SPACE.
12	9(06)	67-72	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN SRF (YYMMDD).

Figure B-25. (Part 2 of 2)

```
01  SRF-SR3T-RECORD.
    03  SR3T-RECD-KEY.
        05  SR3T-RECD-TYPE                  PIC X(02).
        05  SR3T-UNIT-LINE-NBR.
            07  SR3T-FRN                    PIC X(05).
            07  SR3T-FRAG                   PIC X.
            07  SR3T-INSERT                 PIC X.
        05  SR3T-SUBRECD-TYPE               PIC X.
        05  SR3T-CARGO-CATEGORY-CODE.
            07  SR3T-CAT1                   PIC X.
            07  SR3T-CAT2                   PIC X.
            07  SR3T-CAT3                   PIC X.
        05  SR3T-IDENT-NBR                  PIC 9(03).
        05  SR3T-FILLER                     PIC X(02).
    03  SR3T-CARGO-DESCRIPTION              PIC X(14).
    03  SR3T-CARGO-LENGTH                   PIC 9(04).
    03  SR3T-CARGO-WIDTH                    PIC 9(03).
    03  SR3T-CARGO-HEIGHT                   PIC 9(03).
    03  SR3T-CARGO-SQ-FT                    PIC 9(04).
    03  SR3T-NBR-OF-PIECES                  PIC 9(03).
    03  SR3T-CARGO-STONS                    PIC 9(05)V9.
    03  SR3T-CARGO-MTONS                    PIC 9(05)V9.
    03  FILLER                              PIC X(04).
    03  SR3T-SELECT                         PIC X.
    03  SR3T-DATE-RECD-LAST-CHG             PIC 9(06).
```

Figure B-26. SRF Force Cargo Detail Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1G COMPRISE THE ISP KEY.
1A	X(01)	1-1	PRIMARY RECORD TYPE	ALWAYS VALUE '3'.
1B	X(01)	2-2	TPFDD RECORD TYPE	CODE WHICH SPECIFIES THE TYPE OF TPFDD RECORD TO WHICH THIS MOVEMENT TABLE RECORD IS ASSOCIATED; A SPACE IS A FORCE RECORD, A 'C' IS A NONUNIT CARGO RECORD, AND A 'J' IS A NON-UNIT PERSONNEL RECORD.
1C	X(07)	3-9	UNIT LINE NUMBER OR CARGO INCREMENT NUMBER OR PERSONNEL INCREMENT NUMBER	RELATES THIS MOVEMENT TABLE RECORD TO THE APPROPRIATE TPFDD ULN, CIN, OR PIN.
1D	X(01)	10-10	SECONDARY RECORD TYPE	TRANSPORTATION LEG. [illegible] = MOVE TO POE [illegible] = MOVE TO INTERMEDIATE [illegible] = MOVE TO POD [illegible] = MOVE TO DESTINATION
1E	X(01)	11-11	TRANSPORTATION SOURCE	SEE TABLE 9.
1F	9(02)	12-13	MOVEMENT IDENTIFICATION NUMBER	A NUMBER (01-99) THAT UNIQUELY IDENTIFIES EACH MOVEMENT TABLE RECORD WITHIN A SET OF MOVEMENTS.
1G	X(05)	14-18	SPECIAL KEY FILLER	ALWAYS VALUE '00000'.
2	X(04)	19-22	DEPARTURE GEOLOC CODE	SEE TABLE 12.
3	X(01)	23-23	DEPARTURE LOCATION TYPE CODE	A CODE FROM TABLE 22 THAT INDICATES IF THE DEPARTURE LOCATION IS AN ORIGIN, POE INTERMEDIATE, OR POD.
4	X(04)	24-27	DEPARTURE DATE	INDICATES THE DAY THE SPECIFIED MOVEMENT IS PLANNED TO CLEAR THE DEPARTURE LOCATION; SEE TABLE 14.

Figure B-27. SRF Movement Table Record Specifications (Part 1 of 3)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
5	X(01)	28-28	TRANSPORTATION MODE (PERSONNEL)	SEE TABLE 9.
6	X(01)	29-29	TRANSPORTATION MODE (CARGO)	SEE TABLE 9.
7	X(01)	30-30	TRANSPORTATION MEANS (PERSONNEL)	SEE TABLE 24.
8	X(01)	31-31	TRANSPORTATION MEANS (CARGO)	SEE TABLE 24.
9	X(04)	32-35	ARRIVAL GEOLOC CODE	SEE TABLE 12.
10	X(01)	36-36	NOT USED	FILLER SPACE.
11	X(01)	37-37	SPECIAL CARGO CATEGORY CODE	'B' DENOTES NON-SELF-DEPLOYABLE AIRCRAFT, 'C' DENOTES FLOATING CRAFT, 'J' DENOTES CONTAINERIZED CARGO, AND A SPACE DENOTES ALL OTHER TYPES OF CARGO.
12	X(04)	38-41	ARRIVAL DATE	INDICATES THE DAY THE SPECIFIED MOVEMENT IS PLANNED TO ARRIVE, SEE TABLE 14.
13	9(05)	42-46	NUMBER OF PERSONNEL	THE TOTAL NUMBER OF PERSONNEL INCLUDED IN THIS MOVEMENT TABLE RECORD.
14	X(03)	47-49	PROJECT CODE	PROJECT CODE ASSIGNED TO THIS SHIPMENT.
15	9(5)V9	50-55	CARGO WEIGHT (S/T)	THE WEIGHT, IN SHORT TONS, OF THE CARGO THAT IS INCLUDED IN THE MOVEMENT TABLE RECORD.
16	9(06)	56-61	CARGO CUBE (M/T)	THE CUBE, IN MEASUREMENT TONS, OF THE CARGO THAT IS INCLUDED IN THE MOVEMENT TABLE RECORD.

Figure B-27. (Part 2 of 3)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
17	9(06)	62-67	CARGO BULK POL (CBBLS)	THE AMOUNT OF BULK POL, IN HUNDREDS OF BARRELS, THAT IS INCLUDED IN THE MOVEMENT TABLE RECORD.
18	9(02)	68-69	NUMBER OF MOVEMENT RECORDS IN THIS SET	THE COUNT OF MOVEMENT RECORDS THAT ARE INCLUDED IN THE COMMON MOVEMENT SET.
19	X(01)	70-70	PRECEDING TRANSPORTATION SOURCE OR CONSTRAINT INDICATOR	WHEN THE MOVEMENT REQUIREMENT CANNOT BE MET, ENTER A CONSTRAINT CODE FROM TABLE 23; OTHERWISE, ENTER A CODE FROM TABLE 9 THAT IDENTIFIES THE SOURCE OF THE PRECEDING TRANSPORTATION LEG, UNLESS THIS IS THE FIRST TRANSPORTATION LEG.
20	X(07)	71-77	NOT USED	FILLER SPACE.
21	X(01)	78-78	SELECT CODE	AN INTERNAL PROCESSING CONTROL FIELD THAT IS USED BY THE JOPS III FRG; WILL NORMALLY CONTAIN SPACE.
22	9(06)	79-84	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN SRF (YYMMDD).

Figure B-27. (Part 3 of 3)

```
01  SRF-SR3LMNP-RECORD.
    03  SR3LMNP-RECD-KEY.
        05  SR3LMNP-RECD-TYPE                          PIC X.
        05  SR3LMNP-TPFDD-TYPE.                        PIC X.
        05  SR3LMNP-ULN.
            07  SR3LMNP-FRN                            PIC X(05).
            07  SR3LMNP-FRAG                           PIC X.
            07  SR3LMNP-INSERT                         PIC X.
        05  SR3LMNP-CINPIN REDEFINES SR3LMNP-ULN.
            07  SR3LMNP-USING-ORG                      PIC X.
            07  SR3LMNP-TYPE-MOVEMENT                  PIC X.
            07  SR3LMNP-SEQUENCE-NBR                   PIC 9(05).
        05  SR3LMNP-SUBRECD-TYPE                       PIC X.
        05  SR3LMNP-TRANS-SOURCE                       PIC X.
        05  SR3LMNP-MOVEMENT-ID-NBR                    PIC 9(02).
        05  SR3LMNP-FILLER                             PIC X(05).
    03  SR3LMNP-DEPART-GEOLOC-CD                       PIC X(04).
    03  SR3LMNP-DEPART-LOC-TYPE-CD                     PIC X.
    03  SR3LMNP-DEPART-DATE.
        05  SR3LMNP-DPT-PREFIX                         PIC X.
        05  SR3LMNP-DPT-DAY                            PIC 9(03).
    03  SR3LMNP-TRANS-MODE-PERS                        PIC X.
    03  SR3LMNP-TRANS-MODE-CARGO                       PIC X.
    03  SR3LMNP-TRANS-MEANS-PERS                       PIC X.
    03  SR3LMNP-TRANS-MEANS-CARGO                      PIC X.
    03  SR3LMNP-ARRIVAL-GEOLOC-CD                      PIC X(04).
    03  FILLER                                         PIC X.
    03  SR3LMNP-SPECIAL-CATEGORY-CD                    PIC X.
    03  SR3LMNP-ARRIVAL-DATE.
        05  SR3LMNP-ARR-PREFIX                         PIC X.
        05  SR3LMNP-ARR-DAY                            PIC 9(03).
    03  SR3LMNP-NBR-OF-PERS                            PIC 9(05).
    03  SR3LMNP-PROJECT-CD                             PIC X(03).
    03  SR3LMNP-CARGO-STONS                            PIC 9(05)V9.
    03  SR3LMNP-CARGO-MTONS                            PIC 9(06).
    03  SR3LMNP-CARGO-BULK-POL                         PIC 9(06).
    03  SR3LMNP-TOT-NBR-TYPE-RCDS                      PIC 9(02).
    03  SR3LMNP-TRANS-SOURCE-CONST-IND                 PIC X.
    03  FILLER                                         PIC X(07).
    03  SR3LMNP-SELECT                                 PIC X.
    03  SR3LMNP-DATE-RECD-LAST-CHG                     PIC 9(06).
```

Figure B-28. SRF Movement Table Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1G COMPRISE THE ISP KEY.
1A	X(01)	1-1	PRIMARY RECORD TYPE	ALWAYS VALUE '3'.
1B	X(01)	2-2	TPFDD RECORD TYPE	CODE WHICH SPECIFIES THE TYPE OF TPFDD RECORD FOR THIS REMARKS RECORD; A SPACE IS A FORCE RECORD, A 'C' IS A NONUNIT CARGO RECORD, AND A 'J' IS A NONUNIT PERSONNEL RECORD.
1C	X(07)	3-9	UNIT LINE NUMBER OR CARGO OR PERSONNEL INCREMENT NUMBER	RELATES REMARKS TO THE ASSOCIATED ULN, CIN OR PIN IN THE TPFDD FILE.
1D	X(01)	10-10	SECONDARY RECORD TYPE	ALWAYS VALUE 'R'.
1E	X(01)	11-11	ORIGINATOR's CODE	ONE OF THE CODES FROM TABLE 4 TO IDENTIFY THE SOURCE FOR THIS REMARK.
1F	9(01)	12-12	RECORD IDENTIFICATION NUMBER	A VALUE (0-9) THAT UNIQUELY IDENTIFIES EACH REMARKS RECORD IN A SET OF RECORDS.
1G	X(06)	13-18	SPECIAL KEY FILLER	ALWAYS VALUE '000000'.
2	X(49)	19-67	REMARKS	FREE-FORM DATA ENTRY.
3	X(04)	68-71	NOT USED	FILLER SPACE.
4	X(01)	72-72	SELECT CODE	INTERNAL PROCESSING CONTROL FIELD USED BY JOPS III FRG; VALUE IS NORMALLY SPACE.
5	9(06)	73-78	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN SRF (YYMMDD).

Figure B-29. SRF General Remarks Record Specifications

```
01  SRF-SR3R-RECORD.
    03  SR3R-RECD-KEY.
        05  SR3R-RECD-TYPE                    PIC X.
        05  SR3R-TPFDD-TYPE                   PIC X.
        05  SR3R-ULN.
            07  SR3R-FRN                      PIC X(05).
            07  SR3R-FRAG                     PIC X.
            07  SR3R-INSERT                   PIC X.
        05  SR3R-CINPIN REDEFINE SR3R-ULN.
            07  SR3R-USING-ORG                PIC X.
            07  SR3R-TYPE-MOVEMENT            PIC X.
            07  SR3R-SEQ-NBR                  PIC 9(05).
        05  SR3R-SUBRECD-TYPE                 PIC X.
        05  SR3R-ORIGINATOR                   PIC X.
        05  SR3R-IDENT-NBR                    PIC 9.
        05  SR3R-FILLER                       PIC X(06).
    03  SR3R-REMARKS                          PIC X(49).
    03  FILLER                                PIC X(04).
    03  SR3R-SELECT                           PIC X.
    03  SR3R-DATE-RECD-LAST-CHG               PIC 9(06).
```

Figure B-30. SRF General Remarks Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1F COMPRISE THE ISP KEY.
1A	X(01)	1-1	PRIMARY RECORD TYPE	ALWAYS VALUE '3'.
1B	X(01)	2-2	TPFDD RECORD TYPE	VALUE SPACE TO SHOW FORCE RECORD ASSOCIATION.
1C	X(07)	3-9	UNIT LINE NUMBER (ULN)	ASSOCIATED TPFDD ULN.
1D	X(01)	10-10	SECONDARY RECORD TYPE	ALWAYS VALUE 'U'.
1E	9(03)	11-13	RECORD IDENTIFICATION	NUMBER 001-999 TO IDENTIFY EACH USAF MANPOWER FORCE SUPPLEMENT RECORD WITHIN A COMMON SET OF RECORDS.
1F	X(05)	14-18	SPECIAL KEY FILLER	ALWAYS VALUE '00000'.
2	X(02)	19-20	NOT USED	FILLER SPACE.
3	X(05)	21-25	UNIT TYPE CODE	SEE TABLE 6.
4	X(02)	26-27	NOT USED	FILLER SPACE.
5	X(06)	28-33	FUNCTIONAL ACCOUNT CODE (FAC)	APPLICABLE USAF FAC FOR THIS REQUIREMENT.
6	X(07)	34-40	AIR FORCE SPECIALTY CODE (AFSC)	AFSC PREFIX (1-1), NUMBER (2-6), SUFFIX (7-7).
7	X(02)	41-42	NOT USED	FILLER SPACE.
8	X(02)	43-44	MILITARY GRADE	USE AFM 300-4, ADD GR 050, TO DETERMINE GRADE CODE.
9	X(02)	45-46	NOT USED	FILLER SPACE.
10	9(03)	47-49	QUANTITY REQUIRED	TOTAL PACKAGE RQMT FOR (FAC, AFSC, AND MILITARY GRADE).
11	X(03)	50-52	NOT USED	FILLER SPACE.
12	X(04)	53-56	STANDARD PACKAGE CHANGE	INCREASE (+) OR DECREASE (-) AND RANGE (001-999) OF POSITIONS ADDED OR DELETED FROM STANDARD UNIT TYPE PACKAGE; BLANK FOR NON-STD PACKAGE.

Figure B-31. SRF USAF Force Supplement (Manpower) Record Specifications (1 of 2)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
13	X910)	57-66	COMMENTS	OPTIONAL DATA.
14	X(05)	67-71	NOT USED	FILLER SPACE.
15	X(01)	72-72	SELECT CODE	INTERNAL PROCESSING CONTROL FIELD USED BY FRG; NORMAL VALUE IS SPACE.
16	9(06)	73-78	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN SRF (YYMMDD).

Figure B-31. (Part 2 of 2)

```
01  SRF-SR3U-RECORD.
    03  SR3U-RECD-KEY.
        05  SR3U-RECD-TYPE                  PIC X(02).
        05  SR3U-ULN.
            07  SR3U-FRN                    PIC X(05).
            07  SR3U-FRAG                   PIC X.
            07  SR3U-INSERT                 PIC X.
        05  SR3U-SUBRECD-TYPE               PIC X.
        05  SR3U-IDENT-NBR                  PIC 9(03).
        05  SR3U-KEY-FILLER                 PIC X(05).
    03  FILLER                              PIC X(02).
    03  SR3U-UTC                            PIC X(05).
    03  FILLER                              PIC X(02).
    03  SR3U-FUNCTIONAL-ACCT-CD.
        05  SR3U-FAC-POS1                   PIC X.
        05  SR3U-FAC-POS2-6                 PIC X(05).
    03  SR3U-AIR-FORCE-SPEC-CD.
        05  SR3U-AFSC-POS1                  PIC X.
        05  SR3U-AFSC-POS2-6                PIC 9(05).
        05  SR3U-AFSC-POS7                  PIC X.
    03  FILLER                              PIC X(02).
    03  SR3U-MILITARY-GRADE                 PIC X(02).
    03  FILLER                              PIC X(02).
    03  SR3U-QUANTITY-REQUIRED              PIC 9(03).
    03  FILLER                              PIC X(03).
    03  SR3U-CHG-STD-PKG-REQUIREMENT.
        05  SR3U-CSPR-POS1                  PIC X.
        05  SR3U-CSPR-POS2-4                PIC 9(03).
    03  SR3U-COMMENTS                       PIC X(10).
    03  FILLER                              PIC X(05).
    03  SR3U-SELECT                         PIC X.
    03  SR3U-DATE-RECD-LAST-CHG             PIC 9(06).
```

Figure B-32. SRF USAF Force Supplement (Manpower) Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1F COMPRISE THE ISP KEY.
1A	X(01)	1-1	PRIMARY RECORD TYPE	ALWAYS VALUE '3'.
1B	X(01)	2-2	TPFDD RECORD TYPE	VALUE SPACE TO SHOW FORCE RECORD ASSOCIATION.
1C	X(07)	3-9	UNIT LINE NUMBER (ULN)	RELATES THIS RECORD TO THE ASSOCIATED TPFDD ULN.
1D	X(01)	10-10	SECONDARY RECORD TYPE	ALWAYS VALUE 'V'.
1E	9(03)	11-13	RECORD IDENTIFICATION NUMBER	A NUMBER (001-999) THAT UNIQUELY IDENTIFIES EACH NAVY/COAST GUARD FORCE SUPPLEMENT RECORD WITHIN A COMMON SET OF RECORDS.
1F	X(05)	14-18	SPECIAL KEY FILLER	ALWAYS VALUE '00000'.
2	X(48)	19-66	COMMENTS	SUPPLEMENTAL INFORMATION.
3	X(05)	67-71	NOT USED	FILLER SPACE.
4	X(01)	72-72	SELECT CODE	INTERNAL PROCESSING CONTROL FIELD USED BY FRG; NORMAL VALUE IS SPACE.
5	9(06)	73-78	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN SRF (YYMMDD).

Figure B-33. SRF Navy/Coast Guard Force Supplement Record Specifications

```
01  SRF-SR3V-RECORD.
    03  SR3V-RECD-KEY.
        05  SR3V-RECD-TYPE                  PIC X(02).
        05  SR3V-ULN.
            07  SR3V-FRN                    PIC X(05).
            07  SR3V-FRAG                   PIC X.
            07  SR3V-INSERT                 PIC X.
        05  SR3V-SUBRECD-TYPE               PIC X.
        05  SR3V-IDENT-NBR                  PIC 9(03).
        05  SR3V-KEY-FILLER                 PIC X(05).
    03  SR3V-COMMENTS                       PIC X(48).
    03  FILLER                              PIC X(05).
    03  SR3V-SELECT                         PIC X.
    03  SR3V-DATE-RECD-LAST-CHG             PIC 9(06).
```

Figure B-34. SRF Navy/Coast Guard Force Supplement Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1F ARE THE ISP KEY FIELD.
1A	X(01)	1-1	PRIMARY RECORD TYPE	ALWAYS VALUE '3'.
1B	X(01)	2-2	TPFDD RECORD TYPE	VALUE SPACE TO DENOTE A FORCE RECORD ASSOCIATION.
1C	X(07)	3-9	UNIT LINE NUMBER (ULN)	ASSOCIATED ULN IN THE TPFDD.
1D	X(01)	10-10	SECONDARY RECORD TYPE	ALWAYS VALUE 'W'.
1E	9(03)	11-13	RECORD IDENTIFICATION NUMBER	A NUMBER (001-999) THAT UNIQUELY IDENTIFIES EACH ARMY FORCE SUPPLEMENT RECORD WITHIN A COMMON SET.
1F	X(05)	14-18	SPECIAL KEY FILLER	ALWAYS VALUE '00000'.
2	X(48)	19-66	COMMENTS	SUPPLEMENTAL INFORMATION.
3	X(05)	67-71	NOT USED	FILLER SPACE.
4	X(01)	72-72	SELECT CODE	INTERNAL PROCESSING CONTROL FIELD USED BY FRC; NORMALLY CONTAINS SPACE.
5	9(06)	73-78	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN SRF (YYMMDD).

Figure B-35. SRF Army Force Supplement Record Specifications

```
01  SRF-SR3W-RECORD.
    03  SR3W-RECD-KEY.
        05  SR3W-RECD-TYPE                 PIC X(02).
        05  SR3W-ULN.
            07  SR3W-FRN                   PIC X(05).
            07  SR3W-FRAG                  PIC X.
            07  SR3W-INSERT                PIC X.
        05  SR3W-SUBRECD-TYPE              PIC X.
        05  SR3W-IDENT-NBR                 PIC 9(03).
        05  SR3W-KEY-FILLER                PIC X(05).
    03  SR3W-COMMENTS                      PIC X(48).
    03  FILLER                             PIC X(05).
    03  SR3W-SELECT                        PIC X.
    03  SR3W-DATE-RECD-LAST-CHG            PIC 9(06).
```

Figure B-36. SRF Army Force Supplement Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1F ARE THE ISP KEY FIELD.
1A	X(01)	1-1	PRIMARY RECORD TYPE	ALWAYS VALUE '3'.
1B	X(01)	2-2	TPFDD RECORD TYPE	VALUE SPACE TO DENOTE A FORCE RECORD ASSOCIATION.
1C	X(07)	3-9	UNIT LINE NUMBER (ULN)	ASSOCIATED TPFDD ULN.
1D	X(01)	10-10	SECONDARY RECORD TYPE	ALWAYS VALUE 'X'.
1E	9(03)	11-13	RECORD IDENTIFICATION NUMBER	NUMBER (001-999) THAT UNIQUELY IDENTIFIES EACH MARINE CORPS FORCE SUPPLEMENT RECORD WITHIN A COMMON SET.
1F	X(05)	14-18	SPECIAL KEY FILLER	ALWAYS VALUE '00000'.
2	X(48)	19-66	COMMENTS	SUPPLEMENTAL INFORMATION.
3	X(05)	67-71	NOT USED	FILLER SPACE.
4	X(01)	72-72	SELECT CODE	INTERNAL PROCESSING CONTROL FIELD USED BY FRG; NORMALLY CONTAINS SPACE.
5	9(06)	73-78	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN SRF (YYMMDD).

Figure B-37. SRF USMC Force Supplement Record Specifications

```
01  SRF-SR3X-RECORD.
    03  SR3X-RECD-KEY.
        05  SR3X-RECD-TYPE                  PIC X(02).
        05  SR3X-ULN.
            07  SR3X-FRN                    PIC X(05).
            07  SR3X-FRAG                   PIC X.
            07  SR3X-INSERT                 PIC X.
        05  SR3X-SUBRECD-TYPE               PIC X.
        05  SR3X-IDENT-NBR                  PIC 9(03).
        05  SR3X-KEY-FILLER                 PIC X(05).
    03  SR3X-COMMENTS                       PIC X(48).
    03  FILLER                              PIC X(05).
    03  SR3X-SELECT                         PIC X.
    03  SR3X-DATE-RECD-LAST-CHG             PIC 9(06).
```

Figure B-38. SRF USMC Force Supplement Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1F ARE THE ISP KEY FIELD.
1A	X(01)	1-1	PRIMARY RECORD TYPE	ALWAYS VALUE '3'.
1B	X(01)	2-2	TPFDD RECORD TYPE	VALUE SPACE TO DENOTE A FORCE RECORD ASSOCIATION.
1C	X(07)	3-9	UNIT LINE NUMBER (ULN)	ASSOCIATED TPFDD ULN.
1D	X(01)	10-10	SECONDARY RECORD TYPE	ALWAYS VALUE 'Y'.
1E	9(03)	11-13	RECORD IDENTIFICATION NUMBER	A NUMBER (001-999) THAT UNIQUELY IDENTIFIES EACH USAF LOGISTICS FORCE SUPPLEMENT RECORD WITHIN A COMMON SET.
1F	X(05)	14-18	SPECIAL KEY FILLER	ALWAYS VALUE '00000'.
2	X(05)	19-23	OPLAN IDENTIFICATION NUMBER	SEE TABLES 1 AND 2.
3	X(02)	24-25	DEPLOYMENT ECHELON	CODE TO IDENTIFY SPECIFIC DEPLOYMENT ECHELON; REFERENCE JCS PUB 6, VOL V, PART 4, CHAPTER 1.
4	9(04)	26-29	PRIORITY INCREMENT	INDICATES THE MOVEMENT PRIORITY WITHIN THE ECHELON THAT WAS SPECIFIED IN COLUMN REFERENCE 3.
5	9(02)	30-31	ITEM PRIORITY	INDICATES THE MOVEMENT PRIORITY OF THE ITEM WITHIN THE ECHELON (COLUMN REFERENCE 3) AND PRIORITY INCREMENT (COLUMN REFERENCE 4).
6	X(06)	32-37	FUNCTIONAL ACCOUNT CODE	CODE THAT IDENTIFIES THE FUNCTION (ELECTRIC SHOP, MAINTENANCE SHOP, ETC.).

Figure B-39. SRF USAF Force Supplement (Logistics) Record Specifications (Part 1 of 2)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
7	X(15)	38-52	NATIONAL STOCK NUMBER	PRIME STOCK NUMBER OF ITEM.
8	9(03)	53-55	QUANTITY	NUMBER OF PIECES OF THE ITEM IDENTIFIED IN COLUMN REFERENCE 7 WHICH WILL DEPLOY WITHIN THE ECHELON DEFINED IN COLUMN REFERENCE 3.
9	9(05)	56-60	WEIGHT	WEIGHT IN POUNDS OF A SINGLE PIECE OF THE ITEM IDENTIFIED IN COLUMN REFERENCE 7.
10	9(04)	61-64	LENGTH	LENGTH IN INCHES OF A SINGLE PIECE OF THE ITEM IDENTIFIED IN COLUMN REFERENCE 7.
11	9(03)	65-67	WIDTH	WIDTH IN INCHES OF A SINGLE PIECE OF THE ITEM IDENTIFIED IN COLUMN REFERENCE 7.
12	9(03)	68-70	HEIGHT	HEIGHT IN INCHES OF A SINGLE PIECE OF THE ITEM IDENTIFIED IN COLUMN REFERENCE 7.
13	X(03)	71-73	CARGO CATEGORY CODE	SEE TABLE 18.
14	X(04)	74-77	NOT USED	FILLER SPACE.
15	X(01)	78-78	SELECT CODE	INTERNAL PROCESSING CONTROL FIELD USED BY FRG; NORMALLY CONTAINS SPACE.
15	9(06)	79-84	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN SRF (YYMMDD).

Figure B-39. (Part 2 of 2)

```
01  SRF-SR3Y-RECORD.
    03  SR3Y-RECD-KEY.
        05  SR3Y-RECD-TYPE                    PIC X(02).
        05  SR3Y-ULN.
            07  SR3Y-FRN                      PIC X(05).
            07  SR3Y-FRAG                     PIC X.
            07  SR3Y-INSERT                   PIC X.
        05  SR3Y-SUBRECD-TYPE                 PIC X.
        05  SR3Y-IDENT-NBR                    PIC X.
        05  SR3Y-KEY-FILLER                   PIC 9(03).
    03  SR3Y-PIN                              PIC X(05).
    03  SR3Y-DEPLOYMENT-ECHELON.              PIC X(05).
        05  SR3Y-ECH-POS1                     PIC A.
        05  SR3Y-ECH-POS2                     PIC 9.
    03  SR3Y-PRIORITY-INCREMENT               PIC 9(04).
    03  SR3Y-ITEM-PRIORITY                    PIC 9(02).
    03  SR3Y-FUNCTIONAL-ACCT-CD               PIC X(06).
    03  SR3Y-NATIONAL-STOCK-NBR.
        05  SR3Y-NSN-POS1-4                   PIC 9(04).
        05  SR3Y-NSN-POS5-15                  PIC X(11).
    03  SR3Y-QUANTITY                         PIC 9(03).
    03  SR3Y-WEIGHT                           PIC 9(05).
    03  SR3Y-LENGTH                           PIC 9(04).
    03  SR3Y-WIDTH                            PIC 9(03).
    03  SR3Y-HEIGHT                           PIC 9(03).
    03  SR3Y-CARGO-CATEGORY-CD.
        05  SR3Y-CCC-POS1                     PIC X.
        05  SR3Y-CCC-POS2                     PIC X.
        05  SR3Y-CCC-POS3                     PIC X.
    03  FILLER                                PIC X(04).
    03  SR3Y-SELECT                           PIC X.
    03  SR3Y-DATE-RECD-LAST-CHG               PIC 9(06).
```

Figure B-40. SRF USAF Force Supplement (Logistics) Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1D COMPRISE THE ISP KEY FIELD.
1A	X(02)	1-2	PRIMARY RECORD IDENTIFIER	VALUE '8 '.
1B	X(04)	3-6	FACILITY GEOLOCATION CODE	THE GEOLOC CODE FOR THE FACILITY BEING DEFINED.
1C	X(01)	7-7	POE/POD INDICATOR	INTERNAL PROCESSING CONTROL FIELD USED BY MODULE T05 TO DENOTE WHETHER OR NOT THIS FACILITY IS A POE OR POD.
1D	X(11)	8-18	SPECIAL KEY FILLER	VALUE ' '.
2	X(66)	19-84	T05 FACILITIES ELEMENTS	FIELD USED BY MODULES T05 AND T06 TO PRODUCE A PORTS THROUGHPUT REPORT.
3	9(06)	85-90	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN SRF (YYMMDD).

Figure B-41. SRF T05 Facilities Record Specifications

```
01  SRF-SR8-RECORD.
    03  SR8-RECD-KEY.
        05  SR8-RECD-TYPE                          PIC X(02).
        05  SR8-GEOLOC-CD                          PIC X(04).
        05  SR8-POE-POD-TAG                        PIC X.
        05  SR8-FILLER                             PIC X(11).
    03  SR8-DATA.
        05  SR8-HIT-FLAG                           PIC X.
        05  SR8-TAB-A-ID                           PIC X.
        05  SR8-FAC-FUNCTIONS.
            07  SR8-ORIG                           PIC X.
            07  SR8-INTER-ONE                      PIC X.
            07  SR8-POE                            PIC X.
            07  SR8-INTER-TWO                      PIC X.
            07  SR8-POD                            PIC X.
            07  SR8-INTER-THREE                    PIC X.
            07  SR8-DEST                           PIC X.
        05  SR8-ALPHA-FIELDS.
            07  SR8-FAC-MODE                       PIC X.
            07  SR8-FAC-TYPE                       PIC X(03).
            07  SR8-COUNTRY-CD                     PIC X(02).
            07  SR8-COUNTRY-NAME                   PIC X(17).
        05  SR8-NUMBER-FIELDS.
            07  SR8-DAILY-CGO-OFFLOAD-CAPA         PIC X(06).
            07  SR8-DAILY-CGO-CLEAR-CAPA-AIR       PIC X(06).
            07  SR8-DAILY-CGO-CLEAR-CAPA-ROAD      PIC X(06).
            07  SR8-DAILY-CGO-CLEAR-CAPA-RAIL      PIC X(06).
            07  SR8-DAILY-CGO-CLEAR-CAPA-WTR       PIC X(06).
        05  FILLER                                 PIC X(04).
        05  SR8-DATE-RECD-LAST-CHG                 PIC 9(06).
```

Figure B-42. SRF TO5 Facilities Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1B ARE THE ISP.KEY FIELD.
1A	A(01)	1-1	PRIMARY RECORD IDENTIFIER	A CODE USED TO IDENTIFY THIS RECORD AS A STRANGER RECORD TYPE THAT IS NOT DEFINED IN THE JOPS III BASELINE SRF RECORD TYPES; MUST BE ALPHABETIC (A-Z) TO DISTINGUISH IT FROM BASELINE SRF RECORD TYPES.
1B	X(17)	2-18	SECONDARY KEY	CONTAINS THE REMAINDER OF THE STRANGER RECORD KEY VALUE.
2	X(204)	19-222	STRANGER DATA	FIELD IS FREE-FORM AND WILL CONSIST OF THE REMAINDER OF THE STRANGER RECORD DATA; NOTE THAT THE SIZE OF ALL STRANGER RECORDS IS 222 CHARACTERS.

Figure B-43. SRF Stranger Record Specifications

```
01  SRF-STRANGER-RECORD.
    03  SRS-RECD-KEY.
        05  SRS-RECD-TYPE                  PIC A.
        05  SRS-KEY-REMAINDER              PIC X(17).
    03  SRS-STRANGER-DATA                  PIC X(204).
```

Figure B-44. SRF Stranger Record Layout

APPENDIX C

SEQUENCING ORDER FILES (SOF)

C.1 Purpose. Two sequencing order files are provided to guide the order of processing for the records in a TPFDD; the Online Sequencing Order File (ONLSOF) and the Deployment Sequencing Order File (DEPSOF).

C.2 General. A sequencing order file is used whenever a TPFDD file is processed in its random format. The key field for the ONLSOF is the TPFDD Sequence Number. For the DEPSOF, the key field is the ULN/CIN/PIN. These files are ISP formatted with different key offsets for key determination.

C.2.1 File Codes and Names. The ONLSOF ISP data file code is "JX" and the file name is OSOFD. The ONLSOF ISP index file code is "X#" and the file name is OSOFX. The DEPSOF ISP data file code is "JD" and the file name is DSOFD. The DEPSOF ISP index file code is "X#" and the file name is DSOFX.

C.2.2 Collation Sequence. Commercial.

C.2.3 File Description. The ONLSOF record is 24 characters or 4 H6000 words in length. Its record specifications and layouts are provided in figures C-1 and C-2. The DEPSOF record is 24 characters or 4 H6000 words in length. Its record specifications and layouts are provided in figures C-3 and C-4.

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1	X(01)	1-1	NOT USED	FILLER SPACE.
2*	9(05)	2-6	RECORD KEY	COLUMN REFERENCE 2A IS THE KEY FIELD FOR ISP CONTROL.
2A	9(05)	2-6	SEQUENCE NUMBER	SEQUENTIAL NUMBER (00001-99999) TO IDENTIFY THE ORDER FOR PROCESSING RECORDS IN THE RANDOM TPFDD FILE.
3	X(01)	7-7	TPFDD RECORD TYPE	A VALUE OF SPACE DENOTES FORCES, "C" NONUNIT CARGO, AND "J" NONUNIT PERSONNEL.
4	X(07)	8-14	UNIT LINE NUMBER, OR CARGO OR PERSONNEL INCREMENT NUMBER	UNIQUELY IDENTIFIES EACH RECORD IN THE TPFDD FILE BY ITS ULN, CIN, OR PIN.
5	X(04)	15-18	NOT USED	FILLER SPACE.
6	9(06)	19-24	TPFDD SECTOR ADDRESS	CONTAINS THE SECTOR NUMBER OF THE RECORD WITHIN THE RANDOM TPFDD FOR THE ABOVE SEQUENCE NUMBER.

Figure C-1. ONLSOF Record Specifications

```
01  ONLSOF-RECORD.
    03  FILLER                                 PIC X.
    03  ONLSOF-KEY.
        05  ONLSOF-SEQ-NBR                     PIC 9(05).
    03  ONLSOF-TPFDD-RECD-TYPE                 PIC X.
    03  ONLSOF-ULN.
        05  ONLSOF-FRN                         PIC X(05).
        05  ONLSOF-FRAC                        PIC X.
        05  ONLSOF-INSERT                      PIC X.
    03  ONLSOF-CINPIN REDEFINES ONLSOF-ULN.
        05  ONLSOF-USING-ORGANIZATION          PIC X.
        05  ONLSOF-TYPE-MOVEMENT               PIC X.
        05  ONLSOF-INCR-SEQ-NBR                PIC 9(05).
    03  FILLER                                 PIC X(4).
    03  ONLSOF-TPFDD-SECTOR-ADDRESS            PIC 9(06).
```

Figure C-2. ONLSOF Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1	X(01)	1-1	NOT USED	FILLER SPACE.
2	9(05)	2-6	SEQUENCE NUMBER	SEQUENTIAL NUMBER (00001-99999) TO IDENTIFY THE ORDER FOR PROCESSING RECORDS IN THE RANDOM TPFDD FILE.
3*	X(08)	7-14	RECORD KEY	COLUMN REFERENCES 3A-3B ARE THE ISP KEY FIELD.
3A	X(01)	7-7	TPFDD RECORD TYPE	VALUE OF SPACE DENOTES FORCE, "G" DENOTES NONUNIT CARGO, AND "J" DENOTES NONUNIT PERSONNEL.
3B	X(07)	8-14	UNIT LINE NUMBER, CARGO OR PERSONNEL INCREMENT NUMBER	UNIQUELY IDENTIFIES EACH RECORD IN THE TPFDD FILE BY ITS ULN, CIN, OR PIN.
4	X(04)	15-18	NOT USED	FILLER SPACE.
5	9(06)	19-24	TPFDD SECTOR ADDRESS	CONTAINS THE SECTOR NUMBER OF THE RECORD WITHIN THE RANDOM TPFDD FOR THE ABOVE ULN OR CIN OR PIN.

Figure C-3. DEPSOF Record Specifications

```
01  DEPSOF-RECORD.
    03  FILLER                                  PIC X.
    03  DEPSOF-SEQ-NBR                          PIC 9(05).
    03  DEPSOF-KEY.
        05  DEPSOF-TPFDD-RECD-TYPE              PIC X.
        05  DEPSOF-ULN.
            07  DEPSOF-FRN                      PIC X(05).
            07  DEPSOF-FRAG                     PIC X.
            07  DEPSOF-INSERT                   PIC X.
        05  DEPSOF-CINPIN REDEFINES DEPSOF-ULN.
            07  DEPSOF-USING-ORGANIZATION       PIC X.
            07  DEPSOF-TYPE-MOVEMENT            PIC X.
            07  DEPSOF-INCR-SEQ-NBR             PIC 9(05).
    03  FILLER                                  PIC X(04).
    03  DEPSOF-TPFDD-SECTOR-ADDRESS             PIC 9(06).
```

Figure C-4. DEPSOF Record Layout

APPENDIX D

TYPE UNIT CHARACTERISTICS (TUCHA) FILE

D.1 Purpose. The TUCHA file provides force identification and movement characteristics for standard type military units.

D.2 General. The storage media for the TUCHA file is online, permanent disk space. It is an ISP structured file. The data file is comprised of variable length records.

D.2.1 File Code and Name. The ISP data file code is "JU" and the file name is TUCHAD. The index file code is "D#" and the file name is TUCHAX.

D.2.2 Collation Sequence. Scientific.

D.2.3 File Description. The TUCHA file is comprised of several types of variable length records. The record key size is 18 characters and key offset is zero. Detailed record specifications and record layouts appear in figures D-1 through D-12. The following are the various TUCHA record types, their sizes (in words), and name.

Type	Size	Name
00	5	Date Record
A0	27	AB Record
A1	38	ABF1 Record
E0	6	Replace Record
F2	9	F2 Record
F3	11	F3 Record

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	KEY FIELD FOR ISP CONTROL: WILL CONTAIN '000000000000000000'.
2	9(06)	19-24	DATE OF LAST UPDATE TO THIS TUCHA FILE	DATE THIS TUCHA FILE WAS LAST UPDATED (YYMMDD).
3	X(06)	25-30	NOT USED	FILLER SPACE.

Figure D-1. TUCHA Date Record Specifications

```
01  TUCHA-DATE-RECORD.
    03  TU-DATE-RECORD-KEY                  PIC  X(18).
    03  TU-DATE-UPDATE                      PIC  9(06).
    03  FILLER                              PIC  X(06).
```

Figure D-2. TUCHA Date Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1B COMPRISE THE KEY FIELD FOR ISP CONTROL.
1A	X(05)	1-5	UNIT TYPE CODE	A STANDARD 5-CHARACTER CODED ITEM THAT IDENTIFIES A SPECIFIC TYPE OF MILITARY UNIT; SEE JCS PUB 6, VOL II, PART 11, CHAPTER 9.
1B	X(13)	6-18	SPECIAL KEY FILLER	WILL ALWAYS CONTAIN THE VALUE '0000000000000'.
2	X(03)	19-21	UNIT LEVEL CODE	CATEGORIZES THE TYPE UNIT ACCORDING TO STRATUM, ECHELON, OR CONTROL CONCENTRATION; SEE JCS PUB 6, VOL II, PART 11, CHAPTER 9.
3	X(01)	22-22	DEPLOYMENT INDICATOR CODE	CATEGORIZES THE DEPLOYABILITY OF THE TYPE UNIT: SEE JCS PUB 6, VOL II, PART 11, CHAPTER 9.
4	X(01)	23-23	SERVICE CODE	SEE TABLE 5.
5	X(01)	24-24	SECURITY CLASSIFICATION CODE	APPROPRIATE CLASSIFICATION CODE THAT APPLIES TO THIS RECORD.
6	X(15)	25-39	SHORT TYPE NAME	ABBREVIATION OF THE UNIT TYPE NAME.
7	X(01)	40-40	NOT USED	FILLER SPACE.
8	X(01)	41-41	UNIT TYPE STATUS	A CODE WHICH INDICATES THAT THIS UTC IS EITHER ACTIVE (A) OR CANCELLED (C); NOTE, CANCELLED RECORDS WILL BE AUTOMATICALLY DELETED FROM THE TUCHA FILE ONE YEAR FOLLOWING CANCELLATION.

Figure D-3. TUCHA AB Record Specifications (Part 1 of 2)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
9	X(01)	42-42	NOT USED	FILLER SPACE.
10	X(54)	43-96	UNIT TYPE NAME	THE OFFICIAL NAME OF THE TYPE ORGANIZATION.
11	X(06)	97-102	ORIGINATOR'S UNIT IDENTIFICATION CODE	IDENTIFIER FOR THE SOURCE OF THIS RECORD.
12	9(06)	103-108	DATE OF REGISTRATION FOR THIS UTC	DATE THIS RECORD WAS ADDED TO THE TUCHA FILE (YYMMDD).
13	9(06)	109-114	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN THE TUCHA FILE (YYMMDD).
14	9(05)	115-119	AUTHORIZED WARTIME STRENGTH (PERSONNEL)	THE AUTHORIZED WARTIME PERSONNEL STRENGTH FOR THIS UTC.
15	9(06)	120-125	DATE THIS UTC WAS CANCELLED	DATE THE UTC DEFINED BY THIS RECORD WAS CANCELLED (YYMMDD).
16	X(06)	126-131	NOT USED	FILLER SPACE.
17	X(19)	132-150	REFERENCE DOCUMENT	IDENTIFIER OF THE DOCUMENT(S) THAT EITHER AUTHORIZES THE TYPE ORGANIZATION OR CONTAINS ITS CHARACTERISTICS.
18	X(05)	151-155	REPLACER UTC	THE UTC THAT THIS RECORD IS A REPLACEMENT FOR (IF APPLICABLE).
19	X(07)	156-162	NOT USED	FILLER SPACE.

Figure D-3. (Part 2 of 2)

```
01  TUCHA-AB-RECORD.
    03  TU-AB-RECORD-KEY.
        05  TU-AB-UNIT-TYPE-CODE                PIC X(05).
        05  TU-AB-FILLER-1                      PIC X(03).
        05  TU-AB-RECORD-TYPE                   PIC X(02).
            88  TYPE A-RECORD                   VALUE "A0".
        05  TU-AB-FILLER-2                      PIC X(08).
    03  TU-AB-UNIT-LEVEL-CODE                   PIC X(03).
    03  TU-AB-DEPLOYMENT-INDICATOR-CDE          PIC X.
    03  TU-AB-SERVICE-CODE                      PIC X.
    03  TU-AB-RECORD-SECURITY-CLASSIF           PIC X.
    03  TU-AB-SHORT-TYPE-NAME                   PIC X(15).
    03  FILLER                                  PIC X.
    03  TU-AB-UNIT-TYPE-STATUS                  PIC X.
        88  AB-ACTIVE-TYPE-CODE                 VALUE "A".
        88  AB-CANCELLED-TYPE-CODE              VALUE "C".
    03  FILLER                                  PIC X.
    03  TU-AB-TYPE-NAME                         PIC X(54).
    03  TU-AB-ORIG-UIC                          PIC X(06).
    03  TU-AB-DATE-OF-CREATION                  PIC 9(06).
    03  TU-AB-DATE-OF-LAST-CHANGE               PIC 9(06).
    03  TU-AB-AUTH-WARTIME-PERSONNEL            PIC 9(05).
    03  TU-AB-DATE-CANCELLED                    PIC 9(06).
    03  FILLER                                  PIC X(06).
    03  TU-AB-REFERENCE-DOCUMENT                PIC X(19).
    03  TU-AB-UTC-OF-REPLACER                   PIC X(05).
    03  FILLER                                  PIC X(07).
```

Figure D-4. TUCHA AB Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(08)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1B COMPRISE THE KEY FIELD FOR ISP CONTROL.
1A	X(05)	1-5	UNIT TYPE CODE	A STANDARD 5-CHARACTER CODED ITEM THAT IDENTIFIES A SPECIFIC TYPE OF MILITARY UNIT; SEE JCS PUB 6, VOL II, PART 11, CHAPTER 9.
1B	X(13)	6-18	SPECIAL KEY FILLER	WILL ALWAYS CONTAIN THE VALUE '0000000000000'.
2 .	X(03)	19-21	UNIT LEVEL CODE	CATEGORIZES THE TYPE UNIT ACCORDING TO STRATUM, ECHELON, OR CONTROL CONCENTRATION; SEE JCS PUB 6, VOL II, PART 11, CHAPTER 9.
3	X(01)	22-22	DEPLOYMENT INDICATOR CODE	CATEGORIZES THE DEPLOYABILITY OF THE TYPE UNIT; SEE JCS PUB 6, VOL II, PART 11, CHAPTER 9.
4	X(01)	23-23	SERVICE CODE	SEE TABLE 5.
5	X(01)	24-24	ABF1 SECURITY CLASSIFICATION CODE	APPROPRIATE CLASSIFICATION CODE THAT APPLIES TO THIS RECORD.
6	X(15)	25-39	SHORT TYPE NAME	ABBREVIATION OF THE UNIT TYPE NAME.
7	X(01)	40-40	RECORD INDICATOR	A VALUE OF SPACE DENOTES A COMPLETE UTC; 'V' INDICATES F1 RECORD MISSING; 'X' INDICATES F2 OR F3 RECORD COUNTS DIFFER; 'Y' INDICATES MORE PAX THAN AUTHORIZED PERSONNEL; 'Z' INDICATES 'X' AND 'Y'; AND 'W' INDICATES 'V' AND 'X'.

Figure D-5. TUCHA ABF1 Record Specifications (Part 1 of 4)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
8	X(01)	41-41	UNIT TYPE STATUS	A CODE WHICH INDICATES THAT THIS UTC IS EITHER ACTIVE (A) OR CANCELLED (C); NOTE, CANCELLED RECORDS WILL BE AUTOMATICALLY DELETED FROM THE TUCHA FILE ONE YEAR FOLLOWING CANCELLATION.
9	X(01)	42-42	F1 SECURITY CLASSIFICATION CODE	APPROPRIATE CLASSIFICATION CODE FOR F1 DATA IN THIS RECORD.
10	X(54)	43-96	UNIT TYPE NAME	THE OFFICIAL NAME OF THE TYPE ORGANIZATION.
11	X(06)	97-102	ORGINATOR'S UNIT IDENTIFICATION CODE	IDENTIFIER FOR THE SOURCE OF THIS RECORD.
12	9(06)	103-108	DATE THIS RECORD WAS CREATED	DATE THIS RECORD WAS ADDED TO THE TUCHA FILE (YYMMDD).
13	9(06)	109-114	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN THE TUCHA FILE (YYMMDD).
14	9(05)	115-119	AUTHORIZED WARTIME STRENGTH (PERSONNEL)	THE AUTHORIZED WARTIME PERSONNEL STRENGTH FOR THIS UTC.
15	9(05)	120-124	PERSONNEL REQUIRING NON-ORGANIC TRANSPORT	NUMBER OF PERSONNEL (PAX) WHICH REQUIRE NON-ORGANIC TRANSPORT.
16	9(03)	125-127	REQUIRED NUMBER OF CARGO CATEGORIES	THE NUMBER OF CARGO CATEGORY RECORDS (F2) THAT SHOULD BE SUBMITTED FOR THIS UTC.
17	9(03)	128-130	ACTUAL NUMBER OF CARGO CATEGORIES	THE ACTUAL NUMBER OF CARGO CATEGORY RECORDS PRESENT WITH THIS UTC.

Figure D-5. (Part 2 of 4)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
18	X(01)	131-131	F1 INDICATOR CODE	AN INTERNAL PROCESSING CONTROL FIELD USED BY THE TUCHA FILE MAINTENANCE PROCESSOR; WILL NORMALLY CONTAIN A SPACE.
19	X(05)	132-150	REFERENCE DOCUMENT	IDENTIFIER OF THE DOCUMENT(S) THAT EITHER AUTHORIZES THE TYPE ORGANIZATION OR CONTAINS ITS CHARACTERISTICS.
20	X(05)	151-155	REPLACER UTC	THE UTC THAT THIS RECORD IS A REPLACEMENT FOR (IF APPLICABLE.)
21	X(07)	156-162	NOT USED	FILLER SPACE.
22	9(6)V9	163-169	BULK CARGO (S/T)	TOTAL WEIGHT, IN SHORT TONS, OF BULK CARGO THAT IS ASSOCIATED WITH THIS UTC.
23	9(07)	170-176	BULK CARGO (M/T)	TOTAL CUBE, IN MEASUREMENT TONS, OF BULK CARGO THAT IS ASSOCIATED WITH THIS UTC.
24	9(6)V9	177-183	OVERSIZE CARGO (S/T)	TOTAL WEIGHT, IN SHORT TONS, OF OVERSIZE CARGO THAT IS ASSOCIATED WITH THIS UTC.
25	9(07)	184-190	OVERSIZE CARGO (M/T)	TOTAL CUBE, IN MEASUREMENT TONS, OF OVERSIZE CARGO THAT IS ASSOCIATED WITH THIS UTC.
26	9(6)V9	191-197	OUTSIZE CARGO (S/T)	TOTAL WEIGHT, IN SHORT TONS, OF OUTSIZE CARGO THAT IS ASSOCIATED WITH THIS UTC.
27	9(07)	198-204	OUTSIZE CARGO (M/T)	TOTAL CUBE, IN MEASUREMENT TONS, OF OUTSIZE CARGO THAT IS ASSOCIATED WITH THIS UTC.

Figure D-5. (Part 3 of 4)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
28	9(6)V9	205-211	NON-AIR-TRANSPORTABLE CARGO (S/T)	TOTAL WEIGHT, IN SHORT TONS, OF NAT CARGO THAT IS ASSOCIATED WITH THIS UTC.
29	9(07)	212-218	NON-AIR-TRANSPORTABLE CARGO (M/T)	TOTAL CUBE, IN MEASUREMENT TONS, OF NAT CARGO THAT IS ASSOCIATED WITH THIS UTC.
30	9(07)	219-225	BULK POL (CBBLS)	TOTAL BULK POL, IN HUNDREDS OF BARRELS, THAT IS ASSOCIATED WITH THIS UTC.
31	X(03)	226-228	NOT USED	FILLER SPACE.

Figure D-5. (Part 4 of 4)

```
01  TUCHA-ABF1-RECORD.
    03  TU-ABF1-RECORD-KEY.
        05  TU-ABF1-UNIT-TYPE-CODE                 PIC X(05).
        05  TU-ABF1-FILLER-1                       PIC X(03).
        05  TU-ABF1-RECORD TYPE                    PIC X(02).
            88  ABF1-RECORD                        VALUE "A1".
        05  TU-ABF1-FILLER-2                       PIC X(08).
    03  TU-ABF1-UNIT-LEVEL-CODE                    PIC X(03).
    03  TU-ABF1-DEPLOYMENT-INDICATOR-CD            PIC X.
    03  TU-ABF1-SERVICE-CODE                       PIC X.
    03  TU-ABF1-RECORD-SECURITY-CLASSIF            PIC X.
    03  TU-ABF1-SHORT-TYPE-NAME                    PIC X(15).
    03  TU-ABF1-INVALID-RECORD-INDICATOR           PIC X.
        88  GOOD-TUCHA-RECORD                      VALUE " ".
    03  TU-ABF1-UNIT-TYPE-STATUS                   PIC X.
        88  STATS-A                                VALUE "A".
        88  STATS-C                                VALUE "C".
    03  TU-ABF1-SECURITY-CLASSIF-DATA              PIC X.
    03  TU-ABF1-TYPE-NAME                          PIC X(54).
    03  TU-ABF1-ORIGINATORS-UIC.
        05  TU-ABF1-SERVICE-UIC                    PIC X.
        05  TU-ABF1-ORIGINATOR                     PIC X(05).
    03  TU-ABF1-DATE-OF-RECORD-CREATION            PIC 9(06).
    03  TU-ABF1-DATE-OF-LAST-CHANGE                PIC 9(06).
    03  TU-ABF1-AUTH-WARTIME-PERSONNEL             PIC 9(05).
    03  TU-ABF1-NONORGANIC-PASSENGERS              PIC 9(05).
    03  TU-ABF1-NUMBER-OF-CGO-CATEGORIES           PIC 9(03).
    03  TU-ABF1-COUNT-OF-F2-RECORDS                PIC 9(03).
    03  TU-ABF1-INDICATOR                          PIC X.
        88  F1-ADD-OUTSTANDING                     VALUE "A".
        88  F1-REPLACE-OUTSTANDING                 VALUE "R".
    03  TU-ABF1-REFERENCE-DOCUMENT                 PIC X(19).
    03  TU-ABF1-REPLACER-UIC                       PIC X(05).
    03  FILLER                                     PIC X(07).
    03  TU-ABF1-TOT-BULK-CARGO-STONS               PIC 9(06)V9.
    03  TU-ABF1-TOT-BULK-CARGO-MTONS               PIC 9(07).
    03  TU-ABF1-TOT-OVR-CARGO-STONS                PIC 9(06)V9.
    03  TU-ABF1-TOT-OVR-CARGO-MTONS                PIC 9(07).
    03  TU-ABF1-TOT-NAT-CARGO-STONS                PIC 9(06)V9.
    03  TU-ABF1-TOT-NAT-CARGO-MTONS                PIC 9(07).
    03  TU-ABF1-TOT-BULK-POL                       PIC 9(07).
    03  FILLER                                     PIC X(03).
```

Figure D-6. TUCHA ABF1 Record Layout

TUCCHAA

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-AC COMPRISE THE KEY FIELD FOR ISP CONTROL.
1A	X(05)	1-5	UNIT TYPE CODE	A STANDARD 5-CHARACTER CODED ITEM THAT IDENTIFIES A SPECIFIC TYPE OF MILITARY UNIT; SEE JCS PUB 6, VOL II, PART 11, CHAPTER 9.
1B	X(08)	6-13	SPECIAL KEY FILLER	WILL ALWAYS CONTAIN THE VALUE '00000000'.
1C	X(05)	14-18	UTC OF REPLACER OR REPLACEE	THE UTC OF THE REPLACER OR REPLACEE FOR THE UTC DEFINED IN COLUMN REFERENCE 1A.
2	X(15)	19-33	SHORT TYPE NAME	SHORT TYPE NAME OF THE UTC SPECIFIED IN COLUMN REFERENCE 1C ABOVE.
3	X(01)	34-34	REPLACER/REPLACEE STATUS FLAG	VALUE 'R' DENOTES THAT COLUMN REFERENCE 1C IS A REPLACER UTC; 'E' DENOTES A REPLACEE UTC.
4	X(02)	35-36	NOT USED	FILLER SPACE.

Figure D-7. TUCHA Replace Record Specifications

```
01  TUCHA-REPLACE-RECORD.
    03  TU-RP-RECORD-KEY.
        05  TU-RP-UNIT-TYPE-CODE          PIC X(05).
        05  TU-RP-FILLER-1                PIC X(03).
        05  TU-RP-RECORD-TYPE             PIC X(02).
            88  REPLACE-RECORD            VALUE "E0".
        05  TU-RP-FILLER-2                PIC X(03).
        05  TU-RP-REPLAC-UTC              PIC X(05).
    03  TU-RP-SHORT-TYPE-NAME             PIC X(15).
    03  TU-RP-REPLAC-FLAG                 PIC X.
        88  FLG-E                         VALUE "E".
        88  FLG-R                         VALUE "R".
    03  FILLER                            PIC X(02).
```

Figure D-8. TUCHA Replace Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1C COMPRISE THE KEY FIELD FOR ISP CONTROL.
1A	X(05)	1-5	UNIT TYPE CODE	A STANDARD 5-CHARACTER CODED ITEM THAT IDENTIFIES A SPECIFIC TYPE OF MILITARY UNIT; SEE JCS PUB 6, VOL II, PART 11, CHAPTER 9.
1B	X(03)	6-8	CARGO CATEGORY CODE	CODES FROM TABLE 18, EXCLUDING 'N' AND 'P' IN THE FIRST POSITION.
1C	X(10)	9-18	SPECIAL KEY FILLER	VALUE 'F200000000'.
2	X(01)	19-19	SECURITY CLASSIFICATION CODE	APPROPRIATE CLASSIFICATION CODE THAT APPLIES TO THIS RECORD.
3	X(01)	20-20	F2 INDICATOR CODE	AN INTERNAL PROCESSING CONTROL FIELD USED BY THE TUCHA FILE MAINTENANCE PROCESSOR; WILL NORMALLY CONTAIN A SPACE.
4	X(01)	21-21	HEAVY LIFT AND DIMENSION CATEGORY CODE	A CODE FROM TABLE 19 WHICH EQUATES TO THE HEAVIEST ITEM AND THE GREATEST DIMENSION OF THE LARGEST ITEM.
5	X(01)	22-22	F2 AGGREGATION INDICATOR CODE	AN INTERNAL PROCESSING CONTROL FIELD; WHEREIN THE VALUE '1' DENOTES THAT THE WEIGHT/CUBE QUANTITIES FOR THIS RECORD WERE DERIVED BY SUMMING THE ASSOCIATED F3 RECORD VALUES.
6	X(02)	23-24	(NOT USED)	FILLER SPACE.
7	9(06)	25-30	CARGO SQUARE FEET	THE NUMBER OF SQUARE FEET OF DECK OR FLOOR SPACE REQUIRED BY THIS CARGO CATEGORY CODE.

Figure D-9. TUCHA F2 Record Specifications (Part 1 of 2)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
8	9(5)V9	31-36	CARGO WEIGHT (S/T)	THE WEIGHT, IN SHORT TONS, OF THE CARGO DESCRIBED BY THIS CARGO CATEGORY CODE.
9	9(06)	37-42	CARGO CUBE (M/T)	THE CUBE, IN MEASUREMENT TONS, OF THE CARGO DESCRIBED BY THIS CARGO CATEGORY CODE.
10	9(06)	43-48	CARGO BULK POL (CBBLS)	THE AMOUNT OF POL, IN HUNDREDS OF BARRELS, DESCRIBED BY THIS CARGO CATEGORY CODE; NOTE, APPLICABLE ONLY WHEN FIRST POSITION OF CARGO CATEGORY CODE IS 'G'.
11	9(03)	49-51	REQUIRED NUMBER OF F3 RECORDS	THE NUMBER OF F3 DETAIL RECORDS THAT SHOULD BE SUBMITTED FOR THIS CARGO CATEGORY CODE.
12	9(03)	52-54	ACTUAL COUNT OF F3 RECORDS	THE ACTUAL NUMBER OF F3 DETAIL RECORDS THAT ARE PRESENT WITH THIS CARGO CATEGORY CODE.

Figure D-9. (Part 2 of 2)

```
01  TUCHA-F2-RECORD.
    03  TU-F2-RECORD-KEY.
        05  TU-F2-UNIT-TYPE-CODE                PIC X(05).
        05  TU-F2-CARGO-CAT.
            07  TU-F2-CARGO-CATEGORY-CODE.
                09  TU-F2-CARGO-1.              PIC X.
                09  TU-F2-CARGO-2               PIC X.
            07  TU-F2-CONTAINERIZATION-CODE     PIC X.
        05  TU-F2-RECORD-TYPE                   PIC X(02).
            88  F2-RECORD                       VALUE "F2".
        05  TU-F2-FILLER                        PIC X(08).
    03  TU-F2-SECURITY-CLAS-DATA                PIC X.
    03  TU-F2-INDICATOR                         PIC X.
        88  F2-ADD-OUTSTANDING                  VALUE "A".
        88  F2-REPLACE-OUTSTANDING              VALUE "R".
    03  TU-F2-HEAVY-LIFT-CATEGORY-CODE          PIC X.
    03  TU-F2-SUMIND                            PIC X.
    03  FILLER                                  PIC X(02).
    03  TU-F2-SQFT                              PIC 9(06).
    03  TU-F2-STONS                             PIC 9(05)V9.
    03  TU-F2-MTONS                             PIC 9(06).
    03  TU-F2-BULK-POL                          PIC 9(06).
    03  TU-F2-REQUIRED-F3                       PIC 9(03).
    03  TU-F2-COUNT-F3                          PIC 9(03).
```

Figure D-10. TUCHA F2 Record Layout

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(18)	1-18	RECORD KEY	COLUMN REFERENCES 1A-1E COMPRISE THE KEY FIELD FOR ISP CONTROL.
1A	X(05)	1-5	UNIT TYPE CODE	A STANDARD 5-CHARACTER CODED ITEM THAT IDENTIFIES A SPECIFIC TYPE OF MILITARY UNIT; SEE JCS PUB 6, VOL II, PART 11, CHAPTER 9.
1B	X(03)	6-8	CARGO CATEGORY CODE	CODES FROM TABLE 18, EXCLUDING 'W' AND 'P' IN THE FIRST POSITION.
1C	X(02)	9-10	SPECIAL RECORD TYPE	WILL ALWAYS CONTAIN THE VALUE 'F3'.
1D	9(03)	11-13	RECORD IDENTIFICATION NUMBER	A SEQUENTIAL NUMBER (001-999) THAT IS USED TO UNIQUELY IDENTIFY EACH F3 RECORD WITHIN THE F2 RECORD SET.
1E	X(05)	14-18	SPECIAL KEY FILLER	WILL ALWAYS CONTAIN THE VALUE '00000'.
2	X(01)	19-19	SECURITY CLASSIFICATION CODE	APPROPRIATE CLASSIFICATION CODE THAT APPLIES TO THIS RECORD.
3	X(01)	20-20	F3 INDICATOR CODE	AN INTERNAL PROCESSING CONTROL FIELD USED BY THE THE TUCHA FILE MAINTENANCE PROCESSOR; WILL NORMALLY CONTAIN THE VALUE SPACE.
4	X(14)	21-34	CARGO DESCRIPTION	A DESCRIPTION OF THE ITEM OF EQUIPMENT THAT IS BEING DEFINED.
5	9(04)	35-38	CARGO LENGTH	THE LENGTH, IN INCHES, OF ONE PIECE OF THE EQUIPMENT THAT IS DESCRIBED BY THIS RECORD.
6	9(03)	39-41	CARGO WIDTH	THE WIDTH, IN INCHES, OF ONE PIECE OF THE EQUIPMENT THAT IS DESCRIBED BY THIS RECORD.

Figure D-11. TUCHA F3 Record Specifications (Part 1 of 2)

COLF REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
7	9(03)	42-44	CARGO HEIGHT	THE HEIGHT, IN INCHES, OF ONE PIECE OF THE EQUIPMENT THAT IS DESCRIBED BY THIS RECORD.
8	9(04)	45-48	CARGO SQUARE FEET	THE NUMBER OF SQUARE FEET OF DECK OR FLOOR SPACE THAT ONE PIECE OF THIS EQUIPMENT REQUIRES.
9	9(03)	49-51	NUMBER OF PIECES	THE NUMBER OF PIECES OF THE ITEM OF EQUIPMENT THAT IS DESCRIBED BY THIS RECORD.
10	9(5)V9	52-57	CARGO WEIGHT (S/T)	THE WEIGHT, IN SHORT TONS, OF ONE PIECE OF THE EQUIPMENT THAT IS DESCRIBED BY THIS RECORD.
11	9(5)V9	58-63	CARGO CUBE (M/T)	THE CUBE, IN MEASUREMENT TONS, OF ONE PIECE OF THE EQUIPMENT THAT IS DESCRIBED BY THIS RECORD.
12	X(01)	64-64	TUDET FLAG	AN INTERNAL PROCESSING CONTROL FIELD USED BY THE TUCHA FILE MAINTENANCE PROCESSOR; A VALUE OF 'S' DENOTES THAT THE CHARACTERISTICS OF THE EQUIPMENT DESCRIBED IN THIS RECORD WERE EXTRACTED FROM THE JOPS III TUDET FILE.
13	X(02)	65-66	NOT USED	FILLER SPACE.

Figure D-11. (Part 2 of 2)

```
01  TUCHA-F3-RECORD.
    03  TU-F3-RECORD-KEY.
        05  TU-F3-UNIT-TYPE-CODE              PIC X(05).
        05  TU-F3-CARGO-CAT                   PIC X(03).
        05  TU-F3-RECORD-TYPE                 PIC X(02).
            88  F3-RECORD                     VALUE "F3".
        05  TU-F3-ID-NUMBER                   PIC 9(03).
        05  TU-F3-FILLER                      PIC X(05).
    03  TU-F3-SECURITY-CLAS-DATA              PIC X.
    03  TU-F3-INDICATOR                       PIC X.
        88  F3-ADD-OUTSTANDING                VALUE "A".
        88  F3-REPLACE-OUTSTANDING            VALUE "R".
    03  TU-F3-CARGO-DESCRIPTION               PIC X(14).
    03  TU-F3-CARGO-LENGTH                    PIC 9(04).
    03  TU-F3-CARGO-WIDTH                     PIC 9(03).
    03  TU-F3-CARGO-HEIGHT                    PIC 9(03).
    03  TU-F3-SQUARE-FEET                     PIC 9(04).
    03  TU-F3-NUMBER-OF-PIECES                PIC 9(03).
    03  TU-F3-STONS                           PIC 9(05)V9.
    03  TU-F3-MTONS                           PIC 9(05)V9.
    03  TU-F3-TUDET                           PIC X.
    03  FILLER                                PIC X(02).
```

Figure D-12. TUCHA F3 Record Layout

APPENDIX E

TYPE UNIT EQUIPMENT DETAIL FILE (TUDET)

E.1 Purpose. The TUDET file provides nomenclature, dimension, weight, and cubic measurements of specific pieces of military equipment.

E.2 General. The storage media for the TUDET file is online, permanent disk space. It is an ISP structured file. The data file is comprised of a fixed-length record which is 84 characters, 14 H6000 words in size.

E.2.1 File Code and Name. The ISP data file code is "JE" and the file name is TUDETD. The ISP index file code is "E0" and the file name is TUDETX.

E.2.2 Collation Sequence. Scientific.

E.2.3 File Description. The TUDET file is comprised of one record type. The record key size is 7 characters and the key offset is zero. Figures E-1 and E-2 show the record specifications and layout.

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(07)	1-7	RECORD KEY (EQUIPMENT IDENTIFICATION CODE AND SUFFIX)	KEY FIELD FOR ISP CONTROL. CONTAINS THE SERVICE REPORTED 7-CHARACTER NOMENCLATURE WHICH UNIQUELY IDENTIFIES THIS PIECE OF EQUIPMENT.
2	X(14)	8-21	EQUIPMENT DESCRIPTION	DESCRIBES THE REPORTED PIECE OF EQUIPMENT.
3	X(11)	22-32	MODEL NUMBER	MODEL NUMBER OF THIS PIECE OF EQUIPMENT.
4	X(03)	33-35	CARGO CATEGORY CODE	CODE FROM TABLE 18. "N" AND "P" ARE EXCLUDED IN THE FIRST POSITION.
5	9(04)	36-39	CARGO LENGTH	LENGTH IN INCHES OF THIS PIECE OF EQUIPMENT.
6	9(03)	40-42	CARGO WIDTH	WIDTH IN INCHES OF THIS PIECE OF EQUIPMENT.
7	9(03)	43-45	CARGO HEIGHT	HEIGHT IN INCHES OF THIS PIECE OF EQUIPMENT.
8	9(04)	46-49	CARGO SQUARE FEET	TOTAL SQUARE FEET OF DECK OR FLOOR SPACE REQUIRED BY THIS PIECE OF EQUIPMENT.
9	9(5)V9	50-55	CARGO WEIGHT (S/T)	WEIGHT IN SHORT TONS OF THIS PIECE OF EQUIPMENT.
10	9(5)V9	56-61	CARGO CUBE (M/T)	CUBE IN MEASUREMENT TONS OF THIS PIECE OF EQUIPMENT.
11	X(01)	62-62	SECURITY CLASSIFICATION CODE	SECURITY CLASSIFICATION CODE FOR DATA IN THIS RECORD.
12	X(06)	63-68	RECORD OWNER	CONTAINS THE UIC OF THE REPORTING ORGANIZATION.
13	X(04)	69-72	NOT USED	FILLER SPACE.
14	9(06)	73-78	DATE THIS RECORD WAS CREATED	DATE THIS RECORD WAS ADDED TO THE TUDET FILE (YYMMDD).
15	9(06)	79-84	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN TUDET (YYMMDD).

Figure E-1. TUDET Record Specifications

```
01  TUDET-RECORD.
    03  EQ-RECD-KEY.
        05  EQ-EIC                          PIC X(06).
        05  EQ-EIC-SUFFIX                   PIC X.
    03  EQ-CARGO-DESCRIPTION                PIC X(14).
    03  EQ-MODEL-NUMBER                     PIC X(11).
    03  EQ-CARGO-CATGY-CD                   PIC X(03).
    03  EQ-CARGO-LENGTH                     PIC 9(04).
    03  EQ-CARGO-WIDTH                      PIC 9(03).
    03  EQ-CARGO-HEIGHT                     PIC 9(03).
    03  EQ-CARGO-SQ-FT                      PIC 9(04).
    03  EQ-CARGO-STONS                      PIC 9(05)V9.
    03  EQ-CARGO-MTONS                      PIC 9(05)V9.
    03  EQ-RECORD-CLASSIF                   PIC X.
    03  EQ-ORIG-UIC                         PIC X(06).
    03  FILLER                              PIC X(04).
    03  EQ-DATE-RECD-CREATED                PIC 9(06).
    03  EQ-DATE-RECD-LAST-CHG               PIC 9(06).
```

Figure E-2. TUDET Record Layout

APPENDIX F

SPECIFIED GEOGRAPHIC LOCATION FILE (GEOFILE)

F.1 Purpose. The GEOFILE provides a standard coded representation to identify a specified geographic location for operations planning and other applications as required within the Department of Defense.

F.2 General. The GEOFILE is an ISP structured file to be maintained in online, permanent disk space. The data file is comprised of one fixed-length record for each registered geographic location code.

F.2.1 File Code and Name. The ISP data file code is "BA" and the file name is GEOD. The ISP index file code is "AB" and the file name is GEOX.

F.2.2 Collation Sequence. Scientific.

F.2.4 File Description. The GEOFILE contains one 26 word record for each geolocation code. The record key size is 12 characters and the key offset is zero. Figures F-1 and F-2 show the record specifications and layout.

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
1*	X(12)	1-12	RECORD KEY	COLUMN REFERENCES 1A-1B ARE THE ISP KEY FIELD.
1A	X(04)	1-4	GEOLOCATION CODE (GEOLOC)	REPRESENTS THE SPECIFIC GEOGRAPHIC LOCATION/ PLACE AT WHICH A MILITARY ORGANIZATION MAY BE LOCATED OR A LOCATION/PLACE WHICH IS OF MILITARY SIGNIFICANCE; SEE JCS PUB 6, VOL II, PART 14, CHAPTER 1.
1B	X(08)	5-12	SPECIAL KEY FILLER	ALWAYS VALUE "101 ".
2	X(17)	13-29	GEOLOCATION NAME	IDENTIFIES THE SPECIFIED GEOGRAPHIC LOCATION.
3	X(03)	30-32	INSTALLATION TYPE CODE	A CODE WHICH IDENTIFIES THE TYPE OF INSTALLATION AT THE DEFINED LOCATION; SEE JCS PUB 6, VOL II, PART 14, CHAPTER 1.
4	X(02)	33-34	COUNTRY/STATE CODE	A CODE WHICH REPRESENTS THE GEO-POLITICAL AREA, STATE OF THE USA, OR WATER AREA; SEE JCS PUB 6, VOL II, PUB 6, VOL II, PART 14, CHAPTER 1.
5	X(05)	35-39	COUNTRY/STATE SHORT NAME	NAME OF THE COUNTRY, STATE, OR OCEAN AREA.
6	X(03)	40-42	PROVINCE CODE	A CODE WHICH IDENTIFIES THE POLITICAL SUBDIVISION OF THE COUNTRY OR STATE; SEE JCS PUB 6, VOL II, PART 14, CHAPTER 1.
7	X(14)	43-56	PROVINCE NAME	NAME OF THE POLITICAL SUBDIVISION OF THE COUNTRY OR STATE.
8	X(02)	57-58	TACTICAL ZONE	A CODE WHICH DEFINES THE THE MILITARY TACTICAL ZONE IN WHICH THIS LOCATION IS FOUND; SEE JCS PUB 6, VOL II, PART 14, CHAPTER 1.

Figure F-1. GEOFILE Record Specifications (Part 1 of 3)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
9	X(15)	59-73	GEOGRAPHIC COORDINATES	GEOGRAPHIC COORDINATES OF THE GEOLOC THAT IS DEFINED BY THIS RECORD. FORMAT IS LATITUDE (DDMMSSH) THEN LONGITUDE (DDDMMSSH); IN DEGREES, MINUTES, SECONDS, AND HEMISPHERE INDICATOR (N/S AND E/W).
10	X(02)	74-45	LOGISTIC PLANNING AND REPORTING CODE	A CODE USED BY THE MILITARY LOGISTICS PLANNING COMMUNITY; SEE JCS PUB 6, VOL II, PART 14, CHAPTER 1.
11	X(04)	76-79	PRIME GEOLOCATION CODE	A GEOLOC CODE THAT IS USED TO GROUP DIFFERENT INSTALLATION TYPES AT THE SAME LOCATION; SEE JCS PUB 6, VOL II, PART 14, CHAPTER 1.
12	X(06)	80-85	RECORD OWNER	THE UNIT IDENTIFICATION CODE (UIC) OF THE ORGANIZATION RESPONSIBLE FOR REPORTING THE DATA FOR THIS RECORD.
13	X(14)	86-99	NOT USED	FILLER SPACE.
14	X(04)	100-103	INTERNATIONAL CIVIL AVIATION ORGANIZATION CODE (ICAO)	CODE EXTRACTED FROM DEFENSE MAPPING AGENCY DOD FLIGHT INFORMATION PUBLICATIONS, THAT IS USED TO IDENTIFY AIRPORTS.
15	X(02)	104-105	GSA STATE CODE	A NONMILITARY CODE FOR STATES OF THE USA; SEE JCS PUB 6, VOL II, PART 14, CHAPTER 1.
16	X(04)	106-109	GSA CITY CODE	NONMILITARY CODE FOR CITIES OF THE USA; SEE JCS PUB 6, VOL II, PART 14, CHAPTER 1.
17	X(03)	110-112	GSA COUNTY CODE	A NONMILITARY CODE FOR COUNTIES OF THE USA; SEE JCS PUB 6, VOL II, PART 14, CHAPTER 1.

Figure F-1. (Part 2 of 3)

COL REF	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENTS
18	9(06)	113-118	DATE THIS RECORD WAS LAST CHANGED	DATE THIS RECORD WAS LAST CHANGED IN THE GEOFILE (YYMMDD).
19	9(06)	119-124	DATE THIS RECORD WAS CREATED	DATE THIS RECORD WAS ORIGINALLY ADDED TO THE GEOFILE (YYMMDD).
20	9(06)	125-130	DATE THIS GEOLOC WAS CANCELLED	DATE THAT THIS GEOLOC WAS CANCELLED IN THE GEOFILE (YYMMDD).
21	X(15)	131-145	COUNTRY/STATE LONG NAME	NAME OF THE COUNTRY, STATE, OR WATER AREA.
22	X(01)	146-146	GOVERNMENT AREA OF RESPONSIBILITY CODE	A CODE THAT DEFINES THE UNIFIED OR SPECIFIED COMMAND AREA IN WHICH THIS GEOLOC IS LOCATED; SEE JCS PUB 6, VOL II, PART 14, CHAPTER 1.
23	X(01)	147-147	RECORD STATUS CODE	A CODE WHICH INDICATES THAT THIS GEOLOC IS ACTIVE "A" OR CANCELLED "C"; CANCELLED RECORDS WILL BE AUTOMATICALLY DELETED FROM THE GEOFILE ONE YEAR FOLLOWING CANCELLATION.
24	X(01)	148-148	SECURITY CLASSIFICATION CODE	CLASSIFICATION FOR DATA CONTAINED IN THIS RECORD.
25	X(05)	149-153	ARMY LOCATION CODE	CODE THAT IDENTIFIES A LOCATION AT WHICH A U.S. ARMY ACTIVITY MAY BE SITUATED WITH PRESENT OR POTENTIAL MILITARY SIGNIFICANCE; SEE JCS PUB 6, VOL II, PART 14, CHAPTER 1.
26	X(02)	154-155	NAVY OCEAN AREA CODE	A CODE WHICH IDENTIFIES THE U.S. NAVY OCEAN AREA IN WHICH THIS GEOLOC IS LOCATED; SEE JCS PUB 6, VOL II, PART 14, CHAPTER 1.
27	X(01)	156-156	NOT USED	FILLER SPACE.

Figure F-1. (Part 3 of 3)

```
01  GEO-RECORD.
    03  GEO-KEY.
        05  GEO-GEOLOC-CD                  PIC X(04).
        05  GEO-RECD-LEVEL                 PIC X.
        05  GEO-RECD-TYPE                  PIC X(02).
        05  GEO-KEY-FILLER                 PIC X(05).
    03  GEO-GEOLOCATION-NAME               PIC X(17).
    03  GEO-INSTALLATION-TYPE-CD           PIC X(03).
    03  GEO-COUNTRY-STATE-CD               PIC X(02).
    03  GEO-COUNTRY-STATE-SNAME            PIC X(05).
    03  GEO-PROVINCE-CD                    PIC X(03).
    03  GEO-PROVINCE-NAME                  PIC X(14).
    03  GEO-TACTICAL-ZONE                  PIC X(02).
    03  GEO-COORDINATES.
        05  GEO-LAT                        PIC 9(06).
        05  GEO-LAT-NS                     PIC X.
        05  GEO-LONG                       PIC 9(07).
        05  GEO-LONG-EW                    PIC X.
    03  GEO-LPR-CODE.
        05  GEO-LPR-POS1                   PIC X.
        05  GEO-LPR-POS2                   PIC X.
    03  GEO-GEOLOC-PRIME                   PIC X(04).
    03  GEO-RECD-OWNER                     PIC X(06).
    03  FILLER                             PIC X(14).
    03  GEO-ICAO-CD                        PIC X(04).
    03  GEO-GSA-STATE-CD                   PIC X(02).
    03  GEO-GSA-CITY-CD                    PIC X(04).
    03  GEO-GSA-COUNTY-CD                  PIC X(03).
    03  GEO-DATE-CHANGE                    PIC X(06).
    03  GEO-DATE-CREATION                  PIC X(06).
    03  GEO-DATE-CANCEL                    PIC X(06).
    03  GEO-COUNTRY-STATE-LNAME            PIC X(15).
    03  GEO-CINC-CD                        PIC X.
    03  GEO-RECD-STATUS                    PIC X.
    03  GEO-RECD-CLASS                     PIC X.
    03  GEO-ARMY-CD                        PIC X(05).
    03  GEO-OCEAN-AREA-CD                  PIC X(02).
    03  FILLER                             PIC X.
```

Figure F-2. GEOFILE Record Layout

APPENDIX C

TFE CONTROL FILE (TFECON)

C.1 Purpose. The TFE Control File is an OPLAN-unique data base which stores data produced by and required by TFE modules, records parameters required for model simulation, and stores the results of a model simulation for analysis and report generation. The results of a TFE model simulation are recorded in the Detail Record of the TFE Control File. There is one TFE Movement Record for each deployable TPFDD record.

C.2 General. The storage media for the TFECON is magnetic tape. It is designed to be an Indexed Sequential Processor (ISP) file. The record key is 12 characters. The file consists of different types of variable length records. All date data stored in TFECON records is subject to be modified by the plan adjust date (PAD). The PAD is stored in the TFECON Identification Record to reflect the offset for the most negative date found in the related TPFDD. For example: If the most negative TPFDD date is M003, the PAD is "003".

C.2.1 File Code and Name. The ISP data file code is "TC" and the file name is TFED. The ISP index file code is "TI" and the file name is TFEX.

C.2.2 Collation Sequence. Commercial.

C.2.3 File Description. The TFECON is subject to many types of variable length records. The Detail Record provides the results of a model simulation for a given set of parameters. Data are included which allow the examination of asset utilization as well as a movement closure profile. The order of the records is essentially by TFE Record Sequence Number. This number is originated by TFE Module T04 or T10 when Movement Requirement Records are initialized. The number of detail records required to satisfy a TFE Sequence Number is also reflected by the record key. The Detail Record Sequence Number is incremented by one each time an additional asset is required to transport a given TFE Sequence Number. The following are the various TFE record types and subtypes, their size (in words), and name.

Type/Sub	Size	Record Name
10I	16	Identification
10K	16	POE Aggregation
10L	16	POD Aggregation
10M A	32	Air Movement Record
10M S	32	Sea Movement Record
10V F	6	Force Cargo Code Matrix
10V N	6	Nonunit Cargo Code Matrix
10V V	16	Vessel Selection Matrix
11A	6	Air Distance
11S	6	Sea Distance
11W	6	Assembly Area/Dispersal Area

Type/Sub	Size	Record Name
13A C	6	Airport Constraint
13A K	6	Aircraft Attrition
13A W	32	Aircraft Allowance
13S C	6	Seaport Constraint
13S K	6	Seaport Attrition
14A	6	Aircraft Availability
14C	16	Aircraft Characteristics
14P	32	Aircraft Priority for Selection
14U	6	Aircraft Utilization Rate
15A	6	Ship Availability
15C	16	Ship Characteristics
15P	16	Convoy Parameters
2A	32	Air Simulation Detail Record
2S	32	Sea Simulation Detail Record

Record specifications for selected records and layouts for all records are provided by the following figures:

a. Figure G-1, TFE Identification Record.

b. Figure G-2, TFE Aggregation Record.

c. Figure G-3, TFE Movement Record.

d. Figure G-4, TFE Cargo Matrix Record.

e. Figure G-5, TFE Vessel Selection Matrix Record.

f. Figure G-6, TFE TFE Distance Record.

g. Figure G-7, TFE Assembly and Dispersal Record.

h. Figure G-8, TFE TFE Port Constraint Record.

i. Figure G-9, TFE Attrition Parameters Record.

j. Figure G-10, TFE Aircraft Allowance Record.

k. Figure G-11, TFE Aircraft Availability Record.

l. Figure G-12, TFE Aircraft Characteristics Record.

m. Figure G-13, TFE Aircraft Priority Selection Record.

n. Figure G-14, TFE Aircraft Utilization Rate Record.

o. Figure G-15, TFE Ship Availability Record.

p. Figure G-16, TFE Ship Characteristics Record.

q. Figure C-17, TFE Convoy Parameters Record.

r. Figure C-18, TFE Simulation Detail Record.

REF NBR	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENT
1	X(12)	1-12	RECORD KEY	VALUE "101 . ".
2	9(06)	13-18	AIR RECORD COUNT	NUMBER OF AIR MOVE RECORDS.
3	9(06)	19-24	SEA RECORD COUNT	NUMBER OF SEA MOVE RECORDS.
4	X(05)	25-29	OPLAN NUMBER	EXTRACT FROM TPFDD.
5	X(01)	30-30	POL VESSEL CODE	VALUE "A" THROUGH "Z".
6	9(03)	31-33	PLAN ADJUST DATE (PAD)	DAYS ALL TFE DATE FIELDS ARE OFFSET FOR THE MOST NEGATIVE DATE IN THE OPLAN.
7	9(02)	34-35	APOE COUNT	VALUE OF 1 THROUGH 50.
8	9(02)	36-37	APOD COUNT	VALUE OF 1 THROUGH 50.
9	9(02)	38-39	AIRCRAFT TYPES COUNT	VALUE OF 1 THROUGH 24.
10	9(04)	40-43	AIRCRAFT COUNT	VALUE OF 1 THROUGH 1500.
11	9(02)	44-45	SPOE COUNT	VALUE OF 1 THROUGH 40.
12	9(02)	46-47	SPOD COUNT	VALUE OF 1 THROUGH 40.
13	9(04)	48-51	SHIP COUNT	VALUE OF 1 THROUGH 1500.
14	X(01)	52-52	TROOP VESSEL CODE	VALUE OF "A" THROUGH "Z".
15	X(01)	53-53	WATER VESSEL CODE	VALUE OF "A" THROUGH "Z".
16	9(03)	54-56	APOE AGGREGATION COUNT	VALUE OF 1 TO 200.
17	9(03)	57-59	APOD AGGREGATION COUNT	VALUE OF 1 TO 200.
18	9(03)	60-62	SPOE AGGREGATION COUNT	VALUE OF 1 TO 200.
19	9(03)	63-65	SPOD AGGREGATION COUNT	VALUE OF 1 TO 200.
20	X(31)	66-96	FILLER	VALUE SPACE.

Figure C-1. TFE Identification Record (Part 1 of 2).

```
01  TFE-HEADER-RECORD.
    03  IDENT-KEY                  PIC X(12).
    03  H-AIR-REC                  PIC 9(06).
    03  H-SEA-REC                  PIC 9(06).
    03  H-PLANID                   PIC X(05).
    03  H-POL-VSC                  PIC X(01).
    03  H-PAD                      PIC 9(03).
    03  H-NBR-APOE                 PIC 9(02).
    03  H-NBR-APOD                 PIC 9(02).
    03  H-NBR-ACFT-TYPES           PIC 9(02).
    03  H-NBR-ACFT                 PIC 9(04).
    03  H-NBR-SPOE                 PIC 9(02).
    03  H-NBR-SPOD                 PIC 9(02).
    03  H-NBR-SHIPS                PIC 9(04).
    03  H-TROOPS-VSC               PIC X(01).
    03  H-WATER-VSC                PIC X(01).
    03  H-NR-APOE-T04              PIC 9(03).
    03  H-NR-APOD-T04              PIC 9(03).
    03  H-NR-SPOE-T04              PIC 9(03).
    03  H-NR-SPOD-T04              PIC 9(03).
    03  H-REC-FILL                 PIC X(31).
```

Figure G-1. (Part 2 of 2)

REF NBR	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENT
1*	X(12)	1-12	RECORD KEY	1A-1D ARE THE ISP KEY FIELD.
1A	X(03)	1-3	RECORD TYPE	VALUE "10K" OR "10L". K = POE CHANNEL. L = POD CHANNEL.
1B	X(01)	4-4	MODE CODE	VALUE "A" = AIR; "S" = SEA.
1C	X(04)	5-8	KEY POE OR POD	POE FROM TPFDD RECORD.
1D	X(04)	9-12	FILLER	VALUE SPACE.
2	X(04)	13-16	AGGREGATION POE OR POD	POE OR POD GEOLOCATION CODE
3	9(04)	17-20	NUMBER OF MOVES	NUMBER OF MOVES FOR KEY 1C.
4	9(05)	21-25	PASSENGERS	TOTAL PASSENGERS FOR KEY 1C.
5	9(09)	26-34	SHORT TONS (STONS)	TOTAL STONS FOR KEY 1C. USES ONE DECIMAL POSITION.
6	9(08)	35-42	MEASUREMENT TONS (MTONS)	TOTAL MTONS FOR KEY 1C.
7	9(08)	43-50	TOTAL POL	BARRELS OF POL FOR KEY 1C.
8	9(08)	51-58	TOTAL WATER	BARRELS OF WATER FOR KEY 1C.
9	9(09)	59-67	BULK STONS	BULK STONS FOR KEY 1C. USES ONE DECIMAL POSITION.
10	9(09)	68-76	OVERSIZE STONS	OVERSIZE STONS FOR KEY 1C. USES ONE DECIMAL POSITION.
11	9(09)	77-85	OUTSIZE STONS	OUTSIZE STONS FOR KEY 1C. USES ONE DECIMAL POSITION.
12	X(11)	86-96	FILLER	VALUE SPACE.

Figure C-2. TFE Aggregation Record (Part 1 of 2)

```
01  TFE-AGGREGATION-RECORD.
    03  MS-KEY.
        03  MS-ID                          PIC X(03).
        03  MS-MODE                        PIC X(01).
        03  MS-GEO-1                       PIC X(04).
        03  FILLER                         PIC X(04).
    03  MS-GEO-2                           PIC X(04).
    03  MS-MOVES                           PIC 9(04).
    03  MS-PAX                             PIC 9(05).
    03  MS-T-STONS                         PIC 9(08)V9.
    03  MS-T-MTONS                         PIC 9(08).
    03  MS-T-POL                           PIC 9(08).
    03  MS-WATER                           PIC 9(08).
    03  MS-BULK-ST                         PIC 9(08)V9.
    03  MS-OVER-ST                         PIC 9(08)V9.
    03  MS-OUT-ST                          PIC 9(08)V9.
    03  MS-FILLER                          PIC X(11).
```

Figure G-2. (Part 2 of 2)

REF NBR	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENT
1*	X(12)	1-12	RECORD KEY	1A-1D ARE THE ISP KEY FIELD.
1A	X(03)	1-3	RECORD TYPE	VALUE "10M".
1B	X(01)	4-4	MODE CODE	VALUE "A" = AIR; "S" = SEA.
1C	9(02)	5-6	FILLER	VALUE ZERO.
1D	9(06)	7-12	TFE SEQUENCE NUMBER	SEQUENCE NUMBER FOR TFE MOVEMENT RECORD.
2	X(07)	13-19	MOVEMENT IDENTIFIER	ULN OR CIN OR PIN.
3	X(08)	20-27	MOVEMENT DESCRIPTION	UNIT NAME FOR FORCE RECORD; TFE NAME FOR NONUNIT RECORDS. — POL — AMMO — REPL PERS — GEN RSPL — CTN RSPL — CTN AMMO — PKG POL — WATER
4	X(01)	28-28	SERVICE CODE	SERVICE CODE FROM FORCE RECORD OR USING ORGANIZATION FROM NONUNIT RECORD.
5	X(04)	29-32	PORT OF EMBARKATION	POE GEOLOCATION CODE.
6	X(04)	33-36	PORT OF DEBARKATION	POD GEOLOCATION CODE.
7	9(03)	37-39	AVAILABLE TO LOAD DATE	POE ALD WITH PAD.
8	9(03)	40-42	EARLIEST ARRIVAL DATE	POD EAD WITH PAD.
9	9(03)	43-45	LATEST ARRIVAL DATE	POD LAD WITH PAD.
10	9(01)	46-46	COMMODITY CODE	VALUE OF "1" THROUGH "9". 1 = POL 2 = AMMO RSUP CTN 3 = AMMO RSUP NON-CTN 4 = UNIT EQUIP AND PAX 5 = REPLACEMENT PERS 6 = CONVOY ESCORT 7 = CONTAINER RSUP 8 = GENERAL RSUP 9 = WATER SEE NOTE 1.

Figure C-3. TFE Movement Record (Part 1 of 5)

REF NBR	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENT
11	X(01)	47-47	VESSEL SELECTION CODE	VALUE "A" THROUGH "Z". SEE NOTE 2.
12	X(01)	48-48	SHIP RECYCLE CODE	VALUE "0" = YES; "1" = NO. SEE NOTE 2.
13	X(01)	49-49	CONVOY CODE	VALUE "0", "2", OR "3". SEE NOTE 2.
14	9(05)	50-54	PASSENGERS	FORCE OR NONUNIT PASSENGERS.
15	9(08)	55-62	BULK STONS	EXTRACT FROM TPFDD. USES ONE DECIMAL POSITION.
16	9(08)	63-70	OVERSIZE STONS	EXTRACT FROM TPFDD. USES ONE DECIMAL POSITION.
17	9(08)	71-78	OUTSIZE STONS	EXTRACT FROM TPFDD. USES ONE DECIMAL POSITION.
18	9(08)	79-86	MAT STONS	EXTRACT FROM TPFDD. USES ONE DECIMAL POSITION.
19	9(08)	87-94	BULK MTONS	EXTRACT FROM TPFDD. USES ONE DECIMAL POSITION.
20	9(08)	95-102	OVERSIZE MTONS	EXTRACT FROM TPFDD. USES ONE DECIMAL POSITION.
21	9(08)	103-110	OUTSIZE MTONS	EXTRACT FORM TPFDD. USES ONE DECIMAL POSITION.
22	9(08)	111-118	MAT MTONS	EXTRACT FROM TPFDD. USES ONE DECIMAL POSITION.
23	9(08)	119-126	POL BARRELS	IN BARRELS. SEA MODE ONLY.
24	9(05)	127-131	TPFDD SEQUENCE NUMBER	EXTRACT FROM TPFDD.
25*	9(06)	132-137	PREVIOUS TFE SEQUENCE NUMBER	
25A	X(01)	132-132	SEA MATRIX CODE 1	SEE NOTE 3.
25B	X(01)	133-133	SEA MATRIX CODE 2	SEE NOTE 3.
25C	X(01)	134-134	SEA MATRIX CODE 3	SEE NOTE 3.
25D	X(03)	135-137	FILLER	VALUE "J" OR "T" OR SPACE.

Figure C-3. (Part 2 of 5)

REF NBR	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENT
26	X(01)	138-138	ERROR CODE 1	VALUE "1" OR BLANK.
27	X(01)	139-139	ERROR CODE 2	VALUE "2" OR BLANK.
28	X(01)	140-140	ERROR CODE 3	VALUE "3" OR BLANK.
29	X(01)	141-141	ERROR CODE 4	VALUE "4" OR BLANK.
30	X(01)	142-142	FILLER	NOT USED.
31	9(08)	143-150	VEHICLE SQ FT	FROM SRF OR TUCHA.
32	9(08)	151-158	NSDAB SQ FT	FROM SRF OR TUCHA.
33	9(08)	159-166	VEHICLE MTONS	FROM SRF OR TUCHA. USES ONE DECIMAL POSITION.
34	9(08)	167-174	NSDAB MTONS	FROM SRF OR TUCHA. USES ONE DECIMAL POSITION.
35	9(08)	175-182	VEHICLE STONS	FROM SRF OR TUCHA. USES ONE DECIMAL POSITION.
36	9(08)	183-190	NSDAB STONS	FROM SRF OR TUCHA. USES ONE DECIMAL POSITION.
37	X(01)	191-191	POD PRIORITY ADD-ON	EXTRACT FROM TPFDD. NOTE 2.
38	X(01)	192-192	FILLER	VALUE SPACE.

Note 1 - Commodity Code "1" may be a nonunit record or a force record which contains POL only. Commodity Code "4" is always a force record. Commodity Code "5" is a nonunit personnel record. Commodity Codes "2", "3", "7", and "8" are always nonunit cargo records. Commodity "9" is for a nonunit record which contains water only, supply/subclass "1W"; can only be a sea movement.

Figure C-3. (Part 3 of 5)

Note 2 - Module T04 initializes temporary alternate data element values to allow Movement Records to be subsequently sorted by LAD and those secondary data elements normally used by Module T10 when processing TPFDD input. Data for a TPE sort following T04 aggregation are obtained as follows:

Ref Nbr	Data
1B	POD Mode
9	POD LAD
11,12,13	POD Priority
37	POD Priority Add-On
5	POE Geoloc
6	POD Geoloc

Note 3 - Reference numbers 25A through 25D are used during Module T04 aggregation processing to provide data needed by Module T10 for the CHANNEL option in the SEA mode. Data required are the Load Configuration and Discharge Constraint for force records, and cargo category and heavy lift code information for nonunit cargo records. Data are as follow:

Ref Nbr	Force	Nonunit Cargo
25A	Load Configuration Code	First Character Cargo Category Code
25B	Discharge Constraint Code	Heavy Lift Code
25C	Blank	Third Character Cargo Category Code
25D	Blank	"T" when retrograde, "J" when nonunit personnel, otherwise blank

Figure C-3. (Part 4 of 5)

```
01  TFE-MOVEMENT-RECORD.
    03  MR-KEY.
        05  MR-RECID                    PIC X(03).
        05  MR-MODE                     PIC X(01).
        05  MR-FILLER                   PIC 9(02).
        05  MR-SEQ-NO                   PIC 9(06).
    03  MR-FRN-SEQ                      PIC X(07).
    03  MR-FRN-DSCRPT.
        05  MR-SPLY-CL                  PIC X(02).
        05  MR-CRG-CAT                  PIC X(03).
        05  MR-FUEL-CL                  PIC X(03).
    03  MR-SERVICE                      PIC X(01).
    03  MR-POE                          PIC X(04).
    03  MR-POD                          PIC X(04).
    03  MR-ALD                          PIC 9(03).
    03  MR-EAD                          PIC 9(03).
    03  MR-LAD                          PIC 9(03).
    03  MR-COMMODITY-CODE               PIC X(01).
    03  MR-SHIP-VSC                     PIC X(01).
    03  MR-SHIP-REUSE                   PIC X(01).
    03  MR-SHIP-CONVOY                  PIC X(01).
    03  MR-CARGO-DATA.
        05  MR-PERS-REQ-TRANS           PIC 9(05).
        05  MR-BULK-STONS               PIC 9(07)V9.
        05  MR-OVR-STONS                PIC 9(07)V9.
        05  MR-OUT-STONS                PIC 9(07)V9.
        05  MR-NAT-STONS                PIC 9(07)V9.
        05  MR-BULK-MTONS               PIC 9(07)V9.
        05  MR-OVR-MTONS                PIC 9(07)V9.
        05  MR-OUT-MTONS                PIC 9(07)V9.
        05  MR-NAT-MTONS                PIC 9(07)V9.
        05  MR-BULK-POL                 PIC 9(08).
    03  MR-TPFDD-SEQ                    PIC 9(05).
    03  MR-PREV-SEQ-NO                  PIC 9(06).
    03  MR-ERR-CDS.
        05  MR-ERR-CD-1                 PIC X(01).
        05  MR-ERR-CD-2                 PIC X(01).
        05  MR-ERR-CD-3                 PIC X(01).
        05  MR-ERR-CD-4                 PIC X(01).
        05  FILLER                      PIC X(01).
    03  MR-VEH-NSDAB-DATA.
        05  MR-VEH-SQ-FT                PIC 9(08).
        05  MR-NSDAB-SQ-FT              PIC 9(08).
        05  MR-VEH-MTONS                PIC 9(07)V9.
        05  MR-NSDAB-MTONS              PIC 9(07)V9.
        05  MR-VEH-STONS                PIC 9(07)V9.
        05  MR-NSDAB-STONS              PIC 9(07)V9.
    03  MR-REC-FILL                     PIC X(02).
```

Figure C-3. (Part 5 of 5)

```
01  TFE-CARGO-MATRIX-RECORD.
    03  CARGO-CODE-MATRIX-KEY.
        05  CARGO-CODE-MODULE                          PIC X(03).
        05  FORCE-NONUNIT-IND                          PIC X(01).
        05  FORCE-MATRIX-DATA.
            07  LOAD-CONFIG                            PIC X(01).
            07  DISC-CONSTR                            PIC X(01).
            07  FORCE-FILL                             PIC X(01).
        05  NONUNIT-MATRIX-DATA-REDEFINES FORCE-MATRIX-DATA.
            07  CARGO-CAT-CODE                         PIC X(01).
            07  HVY-LIFT-CODE                          PIC X(01).
            07  CONT-SPEC-VEH                          PIC X(01).
        05  CC-VSC-MATRIX-FILL                         PIC 9(05).
    03  VESSEL-SELECT-CODE                             PIC X(01).
    03  CC-VSC-REC-FILL                                PIC X(23).
```

Figure G-4. TFE Cargo Matrix Record

```
01  TFE-VSC-MATRIX-RECORD.
    03  VS-MATRIX-KEY.
        05  MODULE-VS-KEY                              PIC X(04).
        05  VESSEL-SELECTION-CD                        PIC X(01).
        05  VESSEL-MATRIX-FILL                         PIC 9(07).
    03  VESSEL-CODES.
        05  VESSEL-TYPES OCCURS 15                     PIC X(02).
    03  VESSEL-REC-FILL                                PIC X(04).
```

Figure G-5. TFE VSC Matrix Record

```
01  TFE-DISTANCE-RECORD.
    03  DISTANCE-KEY.
        05  DIST-MODULE                                PIC X(02).
        05  DIST-MODE                                  PIC X(01).
        05  DIST-GEO-1                                 PIC X(04).
        05  DIST-GEO-2                                 PIC X(04).
        05  DIST-FILL                                  PIC 9(01).
    03  DISTANCE                                       PIC 9(05).
    03  CANAL-STAT                                     PIC 9(02).
    03  CHANNEL-IND                                    PIC X(01).
    03  USER-DIST-IND                                  PIC X(01).
    03  DIST-REC-FILL                                  PIC X(15).
```

Figure G-6. TFE Distance Record

```
01  TFE-ASM-DISP-RECORD.
    03  ASM-DISP-KEY.
        05  ASM-DISP-MODULE                    PIC X(03).
        05  AMS-DISP-DESIG                     PIC X(01).
        05  ASM-DISP-POE-POD                   PIC X(04).
        05  ASM-DISP-FILL                      PIC 9(04).
    03  ASM-DISP-AREA-GEO                      PIC X(04).
    03  ASM-DISP-AVAIL-IND                     PIC X(01).
    03  ASM-DISP-REC-FILL                      PIC X(19).
```

Figure G-7. TFE Assembly Dispersal Record

```
01  TFE-CONSTRAINT-RECORD.
    03  CONSTRAINT-KEY.
        05  CONSTRAINT-MODULE                  PIC X(02).
        05  CONSTRAINT-MODE                    PIC X(01).
        05  CONSTRAINT-GEO                     PIC X(04).
        05  CONSTRAINT-REC-TYPE                PIC X(01).
        05  CONSTRAINT-FILL                    PIC 9(01).
        05  CONSTRAINT-DAY                     PIC 9(03).
    03  AIR-CONSTRAINT-DATA.
        05  CONSTRAINT-AIR-STON                PIC 9(06).
        05  CONSTRAINT-AIR-MISS                PIC 9(03).
        05  CONSTRAINT-AIR-PAX                 PIC 9(06).
    03  SEA-CONSTRAINT-DATA REDEFINES AIR-CONSTRAINT-DATA.
        05  CONSTRAINT-SEA-MTON                PIC 9(06).
        05  CONSTRAINT-SEA-POL                 PIC 9(06).
        05  CONSTRAINT-SEA-FILL                PIC X(03).
    03  CONSTRAINT-PORT-TYPE                   PIC X(01).
    03  CONSTRAINT-REC-FILL                    PIC X(08).
```

Figure G-8. TFE Constraint Record

```
01  TFE-ATTRITION-RECORD.
    03  ATTRITION-KEY.
        05  ATTRIT-MODULE-KEY                  PIC X(02).
        05  ATTRIT-MODE                        PIC X(01).
        05  ATTRIT-GEO                         PIC X(04).
        05  ATTRIT-REC-TYPE                    PIC X(01).
        05  ATTRIT-FILL                        PIC 9(01).
        05  ATTRIT-DAY                         PIC 9(03).
    03  ATTRIT-ENRT                            PIC 9(01)V999.
    03  ATTRIT-RTRN                            PIC 9(01)V999.
    03  ATTRIT-REC-FILL                        PIC X(16).
```

Figure G-9. TFE Attrition Record

```
01  TFE-ACFT-ALLOW-RECORD.
    03  AIRCRAFT-PORT-ALLOWANCE-KEY.
        05  AIR-ALLOW-MODULE                    PIC X(03).
        05  AIR-ALLOW-GEO                       PIC X(04).
        05  AIR-ALLOW-REC-TYPE                  PIC X(01).
        05  AIR-ALLOW-FILL                      PIC 9(04).
    03  AIR-ALLOW-TYPES.
        05  AIR-ALLOW-TYPE OCCURS 24            PIC X(06).
    03  AIR-ALLOW-REC-FILL                      PIC X(36).
```

Figure G-10. TFE Aircraft Allowance Record

```
01  TFE-ACFT-QUANT-RECORD.
    03  AIRCRAFT-QUANT-KEY.
        05  AIR-QUANT-MODULE                    PIC X(03).
        05  AIR-QUANT-TYPE                      PIC X(06).
        05  AIR-QUANT-DAY                       PIC 9(03).
    03  AIRCRAFT-QUANTITY                       PIC 9(04).
    03  AIR-QUANT-REC-FILL                      PIC X(20).
```

Figure G-11. TFE Aircraft Quantity Record

```
01  TFE-ACFT-CHAR-RECORD.
    03  AIRCRAFT-CHAR-KEY.
        05  AIR-CHAR-MODULE                     PIC X(03).
        05  AIR-CHAR-TYPE                       PIC X(06).
        05  AIR-CHAR-FILL                       PIC 9(03).
    03  CRFT-ACL-OUT                            PIC 9(03)V9.
    03  CRFT-ACL-OVR                            PIC 9(03)V9.
    03  CRFT-ACL-BULK                           PIC 9(03)V9.
    03  CRFT-LD-TIME                            PIC 9(02)V9.
    03  CRFT-UNLD-TIME                          PIC 9(02)V9.
    03  CRFT-TRP-CAP-WITH-CRGO                  PIC 9(03).
    03  CRFT-TRP-CAP-NO-CRGO                    PIC 9(03).
    03  CRFT-SPEED                              PIC 9(04).
    03  CRFT-RANGE                              PIC 9(05).
    03  CRFT-ENRTE-DELAY                        PIC 9(02))V9.
    03  CRFT-ORG-IND                            PIC 9(01).
    03  CRFT-BRKN-STOW                          PIC 9(01)V99.
    03  CRFT-CU-FT-CAP                          PIC 9(05).
    03  CRFT-REC-FILL                           PIC X(39).
```

Figure G-12. TFE Aircraft Characteristics Record

```
01  TFE-ACFT-SELECTION-RECORD.
    03  AIRCRAFT-SELECTION-PRIOR-KEY.
        05  AIR-SELECT-MODULE                  PIC X(03).
        05  AIR-SELECT-CGO-SIZE                PIC X(02).
        05  AIR-SELECT-FILL                    PIC 9(07).
    03  AIR-SELECT-TYPES.
        05  AIR-SELECT-TYPE OCCURS 24          PIC X(06).
    03  AIR-SELECT-REC-FILL                    PIC X(36).
```

Figure G-13. TFE Aircraft Priority Selection Record

```
01  TFE-ACFT-UTE-RECORD.
    03  AIRCRAFT-UTE-RATE-KEY.
        05  AIR-UTE-MODULE                     PIC X(03).
        05  AIR-UTE-TYPE                       PIC X(06).
        05  AIR-UTE-DAY                        PIC 9(03).
    03  AIR-UTE-RATE                           PIC 9(02)V9.
    03  AIR-UTE-REC-FILL                       PIC X(21).
```

Figure G-14. TFE Aircraft Utilization Record

```
01  TFE-SHIP-AVAIL-RECORD.
    03  SHIP-AVAILABILITY-KEY.
        05  SHIP-AVAIL-MODULE                  PIC X(03).
        05  SHIP-AVAIL-CLASS.
            07  SHIP-TYPE                      PIC X(02).
            07  SHIP-CLASS-FILL                PIC X(02).
        05  SHIP-AVAIL-FILL                    PIC 9(01).
        05  SHIP-AVAIL-NUMBER                  PIC 9(04).
    03  SHIP-AVAIL-GEO                         PIC X(04).
    03  SHIP-AVAIL-DAY                         PIC 9(03).
    03  SHIP-AVAIL-QUANTITY                    PIC 9(04).
    03  SHIP-AVAIL-REUSE                       PIC 9(01).
    03  SHIP-AVAIL-ORG-NONORG                  PIC 9(01).
    03  SHIP-AVAIL-REC-FILL                    PIC X(11).
```

Figure G-15. TFE Ship Availability Record

```
01  TFE-SHIP-CHAR-RECORD.
    03  SHIP-CHARACTERISTICS-KEY.
        05  SHIP-CHAR-MODULE              PIC X(03).
        05  SHIP-CHAR-CLASS               PIC X(04).
        05  SHIP-CHAR-FILL                PIC 9(05).
    03  CH-TIME-SHIP-WAIT-CGO             PIC 9(03).
    03  CH-BROSTO-UE                      PIC 9(01)V99.
    03  CH-BROSTO-AMMO                    PIC 9(01)V99.
    03  CH-BROSTO-RSUP                    PIC 9(01)V99.
    03  CH-SHIP-FUEL-CAP                  PIC 9(06).
    03  CH-SHIP-TROOP-CAP                 PIC 9(06).
    03  CH-SHIP-MTON-CAP                  PIC 9(06).
    03  CH-FUEL-LD-RATE                   PIC 9(04).
    03  CH-FUEL-UNLD-RATE                 PIC 9(04).
    03  CH-TROOP-LD-RATE                  PIC 9(04).
    03  CH-TROOP-UNLD-RATE                PIC 9(04).
    03  CH-MTON-LD-RATE                   PIC 9(05).
    03  CH-MTON-UNLD-RATE                 PIC 9(05).
    03  CH-SHIP-SPEED                     PIC 9(02)V9.
    03  CH-SHIP-USAGE                     PIC 9(01).
    03  CH-SHIP-SQ-FT                     PIC 9(06).
    03  CH-SQ-LD-RATE                     PIC 9(05).
    03  CH-SQ-UNLD-RATE                   PIC 9(05).
    03  CH-SHIP-REC-FILL                  PIC X(08).
```

Figure G-16. TFE Ship Characteristics Record

```
01  TFE-CONVYO-PARAMS-RECORD.
    03  CONVOY-PARAM-KEY.
        05  CONVOY-MODULE-KEY             PIC X(03).
        05  CONVOY-PARAM-FILL             PIC 9(09).
    03  CONVY-MIN-SIZE                    PIC 9(02).
    03  CONVY-MAX-SIZE                    PIC 9(02).
    03  CONVY-DAYS-FORM                   PIC 9(02).
    03  CONVY-HRS-ASM                     PIC 9(02).
    03  CONVY-HRS-DSP                     PIC 9(02).
    03  CONVY-HRS-REASM                   PIC 9(02).
    03  CONVY-ZIG-ZAG                     PIC 9(03).
    03  CONVY-ESC-ENRT                    PIC 9(02).
    03  CONVY-ESC-RTN                     PIC 9(02).
    03  CONVY-BRK-PNT                     PIC 9(02)V9.
    03  CONVY-RTN-SW                      PIC 9(01).
    03  CONVY-BEG-DAY                     PIC 9(03).
    03  CONVY-END-DAY                     PIC 9(03).
    03  CONVY-PARAM-REC-FILL              PIC X(55).
```

Figure G-17. TFE Convoy Parameters Record

REF NBR	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENT
1*	X(12)	1-12	RECORD KEY	1A-1D ARE THE ISP KEY FIELD.
1A	9(01)	1-1	RECORD TYPE	VALUE "2".
1B	X(01)	2-2	MODE CODE	VALUE "A" = AIR; "S" = SEA.
1C	9(06)	3-8	TFE SEQUENCE NUMBER	SEQUENCE NUMBER FROM TFE MOVEMENT RECORD.
1D	9(04)	9-12	DETAIL RECORD SEQUENCE NUMBER	VALUE "0001" THROUGH NUMBER OF ASSETS PER MOVEMENT.
2	9(05)	13-17	TPFDD SEQUENCE NUMBER	NUMBER AS IT EXISTED IN TPFDD WHEN T04 OR T10 WERE EXECUTED.
3	X(07)	18-24	MOVEMENT IDENTIFIER	ULN OR CIN OR PIN.
4	9(01)	25-25	COMMODITY CODE	VALUE OF "1" THROUGH "9". 1 = POL 2 = AMMO RSUP CTN 3 = AMMO RSUP NON-CTN 4 = UNIT EQUIP AND PAX 5 = REPLACEMENT PERS 6 = CONVOY ESCORT 7 = CONTAINER RSUP 8 = GENERAL RSUP 9 = WATER
5	X(01)	26-26	SERVICE CODE	SERVICE CODE FROM FORCE RECORD OR USING ORG FROM NONUNIT RECORD.
6	X(06)	27-32	ASSET DESCRIPTION	AIRCRAFT TYPE OR SHIP CLASS.
7	X(04)	33-36	FILLER	VALUE SPACE.
8	9(05)	37-41	PASSENGERS	FORCE OR NONUNIT PASSENGERS.
9	9(09)	42-50	MTONS OR BULK STONS	MTONS FOR SEA MODE OR BULK STONS BY AIR. ONE DECIMAL POSITION.
10	9(08)	51-58	OVERSIZE STONS	AIR MODE ONLY. ONE DECIMAL POSITION.
11	9(08)	59-66	OUTSIZE STONS	AIR MODE ONLY. ONE DECIMAL POSITION.

Figure C-18. TFE Detail Record (Part 1 of 5)

REF NBR	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENT
12	9(07)	67-73	POL BARRELS	SEA MODE ONLY.
13	X(04)	74-77	ASSET DEPARTURE GEOLOCATION CODE	CURRENT LOCATION WHEN SELECTED.
14	9(03)	78-80	ASSET DEPARTURE DAY	
15	9(02)	81-82	ASSET DEPARTURE HOUR	
16	X(04)	83-86	POE GEOLOCATION CODE	
17	9(03)	87-89	POE DAY ASSET AVAILABLE	
18	9(02)	90-91	POE HOUR ASSET AVAILABLE	
19	9(03)	92-94	POE AVAILABLE TO LOAD DATE	
20	9(03)	95-97	POE BEGIN LOAD DAY	
21	9(02)	98-99	POE BEGIN LOAD HOUR	
22	9(03)	100-102	POE DEPARTURE DAY	
23	9(02)	103-104	POE DEPARTURE HOUR	
24	9(03)	105-107	CONVOY NUMBER	SEA MODE ONLY.
25	X(04)	108-111	ASSEMBLY GEOLOCATION	SEA MODE ONLY.
26	9(03)	112-114	ASSEMBLY ARRIVAL DAY	SEA MODE ONLY.
27	9(03)	115-117	ASSEMBLY DEPART DAY	SEA MODE ONLY.
28	X(04)	118-121	DISPERSAL GEOLOCATION	SEA MODE ONLY.
29	9(03)	122-124	DISPERSAL ARRIVAL DAY	SEA MODE ONLY.
30	9(03)	125-127	DISPERSAL DEPART DAY	SEA MODE ONLY.
31	X(04)	128-131	POD GEOLOCATION CODE	
32	9(03)	132-134	POD EARLIEST ARRIVAL DATE	
33	9(03)	135-137	POD ARRIVAL DAY	
34	9(02)	138-139	POD ARRIVAL HOUR	

Figure C-18. (Part 2 of 5)

REF NBR	FIELD FORMAT	RELATIVE POSITION	FIELD NAME	COMMENT
35	9(03)	140-142	POD BEGIN UNLOAD DAY	
36	9(02)	143-144	POD BEGIN UNLOAD HOUR	
37	9(03)	145-147	POD FINISH UNLOAD DAY	
38	9(02)	148-149	POD FINISH UNLOAD HOUR	
39	9(03)	150-152	POD LATEST ARRIVAL DATE	
40	9(03)	153-155	RETURN CONVOY DEPART POD DAY	
41	9(03)	156-158	RETURN CONVOY ARRIVE DISPERSAL DAY	
42	9(03)	159-161	RETURN CONVOY DEPART DISPERSAL DAY	
43	9(03)	162-164	RETURN CONVOY ARRIVE ASSEMBLY DAY	
44	X(01)	165-165	ATTRITION OR INCOMPLETE CODE	VALUES AS FOLLOWS: 1 - ATTRITION: ASSET AND CARGO LOST 2 - ATTRITION: ASSET ONLY LOST A - POE CONSTRAINED OR CLOSED B - POD CONSTRAINED OR CLOSED C - ASSET UNAVAILABLE J - INCOMPLETE ASSET CHARACTERISTICS K - MOVE NOT COMPLETE BY END OF PROBLEM
45	9(03)	166-168	DAY OF ATTRITION	
46	9(01)	169-169	OTHER MOVES ON ASSET	VALUES "0" THROUGH "3". 0 = NO OTHER MOVES 1 = INITIAL LOAD 2 = CONTINUE OTHER MOVE 3 = FINAL MOVE
47	9(03)	170-172	ASSET PERCENT OF FILL	
48	9(01)	173-173	ORGANIC OR NONORGANIC ASSET CHARACTERISTIC	VALUES ARE "0" OR "1". 0 = ORGANIC 1 = NONORGANIC
49	9(08)	174-181	SQUARE FEET	SEA MODE WHEN SELECTED IN MODULE T10.
50	X(11)	182-192	FILLER	VALUE SPACE.

Figure G-18. (Part 3 of 5)

```
01  TFE-DETAIL-RECORD.
    03  DR-KEY.
        05  DR-MODULE-KEY                  PIC 9(01).
        05  DR-MODE                        PIC X(01).
        05  DR-TFE-SEQ                     PIC 9(06).
        05  DR-REC-SEQ                     PIC 9(04).
    03  DR-MOVEMENT-DESCR.
        05  DR-TPFDD-SEQ-NUM               PIC 9(05).
        05  DR-MOVE-ID                     PIC X(07).
        05  DR-COMMODITY                   PIC 9(01).
        05  DR-SERVICE                     PIC X(01).
    03  DR-ASSET-DESCR.
        05  DR-ASSET-CLASS.
            07  DR-SHIP-TYPE               PIC X(02).
            07  DR-SHIP-FILL               PIC X(01).
            07  DR-SHIP-SPEED              PIC X(01).
            07  DR-ASSET-FILL              PIC X(02).
        05  DR-ASSET-NUM                   PIC 9(04).
    03  DR-ASSET-CARGO.
        05  DR-PAX                         PIC 9(05).
        05  DR-MTONS-BULK-STONS            PIC 9(08)V9.
        05  DR-OVER-STONS                  PIC 9(07)V9.
        05  DR-OUT-STONS                   PIC 9(07)V9.
        05  DR-TOTAL-POL                   PIC 9(07).
    03  DR-ASSET-LOCATION.
        05  DR-ASSET-DEP-GEO               PIC X(04).
        05  DR-ASSET-DEP-DAY               PIC 9(03).
        05  DR-ASSET-DEP-HR                PIC 9(02).
    03  DR-POE-DATA.
        05  DR-POE-GEO                     PIC X(04).
        05  DR-ASSET-AVL-DAY               PIC 9(03).
        05  DR-ASSET-AVL-HR                PIC 9(02).
        05  DR-POE-ALD                     PIC 9(03).
        05  DR-POE-BEGLD-DAY               PIC 9(03).
        05  DR-POE-BEGLD-HR                PIC 9(02).
        05  DR-POE-DEP-DAY                 PIC 9(03).
        05  DR-POE-DEP-HR                  PIC 9(02).
    03  DR-CONVOY-DATA.
        05  DR-CONVOY-NUM                  PIC 9(03).
        05  DR-ASM-GEO                     PIC X(04).
        05  DR-ASM-ARR-DAY                 PIC 9(03).
        05  DR-ASM-DEP-DAY                 PIC 9(03).
        05  DR-DSP-GEO                     PIC X(04).
        05  DR-DSP-ARR-DAY                 PIC 9(03).
        05  DR-DSP-DEP-DAY                 PIC 9(03).
    03  DR-POD-DATA.
        05  DR-POD-GEO                     PIC X(04).
        05  DR-POD-EAD                     PIC 9(03).
```

Figure G-18. (Part 4 of 5)

```
    05  DR-POD-ARR-DAY                 PIC 9(03).
    05  DR-POD-ARR-HR                  PIC 9(02).
    05  DR-BEG-UNLD-DAY                PIC 9(03).
    05  DR-BEG-UNLD-HR                 PIC 9(02).
    05  DR-FIN-UNLD-DAY                PIC 9(03).
    05  DR-FIN-UNLD-HR                 PIC 9(02).
    05  DR-POD-LAD                     PIC 9(03).
03  DR-RET-CONVOY-DATA.
    05  DR-RC-DEP-POD-DAY              PIC 9(03).
    05  DR-RC-ARR-DSP-DAY              PIC 9(03).
    05  DR-RC-DEP-DSP-DAY              PIC 9(03).
    05  DR-RC-ARR-ASM-DAY              PIC 9(03).
03  DR-ATTRITION-DATA.
    05  DR-ATTR-INC-CODE               PIC X(01).
    05  DR-ATTR-DAY                    PIC 9(03).
03  DR-MISCELLANEOUS.
    05  DR-OTHER-MOVES                 PIC 9(01).
    05  DR-PERCENT-OF-FILL             PIC 9(03).
    05  DR-ORG-NONORG                  PIC 9(01).
    05  DR-TOTAL-SQFT                  PIC 9(08).
03  DR-REC-FILL                        PIC X(11).
```

Figure C-18. (Part 5 of 5)

APPENDIX T

CODE TABLES

The Joint Operation Planning System was developed with the intent of eliminating or minimizing the requirement for the user to have a detailed knowledge of codes or required entries. However, to facilitate specification of input parameters, many automated data entries required for operation planning are in the form of codes or are subject to certain edit restrictions.

Codes and edit criteria are not unique to any ADP-supported system; they will be generally familiar to a staff user having knowledge of other planning and force reporting procedures in the Worldwide Military Command and Control System (WWMCCS) environment.

This appendix is furnished for the user's convenience when specifying input parameters required for Operation Planning. Each table of this appendix contains code values and meanings or narrative information which, for ease of reference, are assigned a table number related to those provided in JCS Pub 6, Volume II, Part 11, Chapter 1, which can be referenced for detailed descriptions of the JOPS data elements. Additional information is provided for some tables. During online JOPS III processing, the *HELP command can be used to review current code value tables. When there is any question as to current code values, the online tables should be reviewed.

Following are the titles of the code and narrative information tables and the page of this appendix in which each table is located.

Table T-1. Plan Identification Number

T1.1 Purpose. This number designates an identifier for the operation plan (OPLAN).

T1.2 Composition. This 5-character field is composed of an assigned 4-digit number plus a 1-character suffix.

T1.2.1 Plan Number. Each plan will be assigned a permanent, 4-digit number, which will be used for the life of the plan; once assigned, it may not be changed. Block assignments are as follows.

PLAN IDENTIFICATION NUMBER BLOCKS	ASSIGNMENTS
0001-0999	JCS
1000-1999	USCINCCENT
2000-2999	USCINCLANT
3000-3999	CINCAD
4000-4999	USCINCEUR
5000-5999	USCINCPAC
6000-6999	USCINCSO
7000-7999	USCINCRED
8000-8999	CINCSAC
9000-9199	CDRMTMC
9200-9399	COMSC
9400-9599	CINCMAC
9600-9699	COMJTF Alaska (When Activated)
9700-9999	Reserved

T1.2.2 Plan Number Suffix. The originating commander of a unified or specified command will assign a separate one-character suffix to the plan identification number. For the basic plan, this character will be a number which indicates the fiscal year of the JSCP for which the plan was written. For preconflict TPFDD, the four digit plan identification number will be followed by a letter (A-Z) that will designate the preconflict option selected by the commander.

Table T-2. Document Identification Number

T2.1 Purpose. This number is assigned, by the JCS or unified/specified commander, to a document that describes a deployment situation not covered by an OPLAN.

T2.2 Composition. This number is composed of five characters as follows:

CHARACTERS	REMARKS
1	Enter last digit of the calendar year (0-9)
2, 3	Enter the sequential number of the document (01-99) (assigned by the JCS or Commander)
4, 5	Enter the identification of the annex. Leave character 5 blank if annex is identified by a single letter.

EXAMPLE: 402AA identifies Annex AA of the second document of 1984.

Table T-3. Unit Line Number (ULN), CIN, and PIN

T3.1 Purpose. The Unit Line Number (ULN) uniquely identifies each force requirement on the force list.

T3.2 General. The 7-character ULN is completed at the unit identification level. The same ULN must not appear on more than one force record in the TPFDD.

T3.3 ULN Composition. The ULN is a composite of the 5-character force requirement number (FRN), the 1-character fragmentation code, and the 1-character insert code.

T3.3.1 Force Requirement Number (FRN). The FRN is the first part (first five character positions) of the ULN. It is assigned at the force description level.

T3.3.1.1 Purpose. The FRN uniquely identifies the force requirements within each OPLAN. It is associated with all related data for a given force requirement. Regardless of its structure (except for split shipment identification), the FRN identifies a single force requirement. (For example, when deploying units in an OPLAN with JSCP allocation of six tactical fighter squadrons, each squadron will be assigned a basic FRN).

T3.3.1.2 Composition Rules. The FRN consists of two, three, four, or five alphabetic or numeric characters with special rules for various character positions. The first three characters are identified as the basic FRN.

a. First Character. May be alphabetic (except I and O) or numeric.

b. Second Character. May be alphabetic (except I and O) or numeric.

c. Third Character. May be blank, alphabetic (except I and O), or numeric.

d. Fourth Character. May be blank, alphabetic (except I and O), or numeric. The following character values are reserved and may not be used for purposes other than these listed:

W - for USAF Weather Teams supporting Army units

X, Y - for Tactical Air Control Parties supporting Army units

e. Fifth Character. May be blank, alphabetic (except I and O), or numeric. The following character values denote specific information as indicated relating to split shipment consideration:

C - Cargo portion of split shipment

P - Personnel portion of split shipment

E - Force requirement must not be split at any point in the deployment process.

T3.3.1.3 Parent Indicator Code (PIC). In conjunction with the FRN, the PIC is used to identify the category of the force requirement. The PIC distinguishes independent/subordinate force requirements from parent force requirements. Valid PICs and respective meanings are as follows:

PIC	APPROPRIATE FORCE CATEGORY	MEANING
A	Grouping, Primary Parent	All subordinates to move in split shipment mode.
P	Grouping, Primary Parents	Some subordinates to move in split shipment mode.
X	Grouping, Primary Parents, Secondary Parents	All subordinates will move in the nonsplit shipment mode.
Blank	Independent, Subordinates	Not a parent.

T3.3.1.4 Force Category/FRN/PIC Relationships. The five categories of force requirements must always be identified by the FRN and PIC. The following guidance pertains to the use of the FRN and PIC to accommodate the force requirement categories, including identification of the split shipment mode, when applicable.

T3.3.1.4.1 Grouping. A grouping is identified by a 2-character FRN, with the remaining three characters left blank.

a. The FRN for a grouping is entered to provide hierarchial display of a force requirement. The grouping force category functions in all respects as a parent. It is wholly defined by the FRNs of its associated primary parents, independents, secondary parents, or subordinates.

b. The PIC for this category must be A, P, or X.

T3.3.1.4.2 Independent. This category is identified by a 3-character (basic) FRN. If associated with a grouping force category, the first two character values would be common.

a. An independent moving in a split shipment mode requires two iterations of the basic FRN, with a "C" and "P" as the fifth character of each FRN, to denote the respective cargo and personnel portions of the move.

b. An independent unit that must not be split at any point in the deployment is identified by the basic FRN, plus the value of "E" in the fifth character.

c. The PIC for this category must be blank.

T3.3.1.4.3 Primary Parent. The 3-character (basic) FRN identifies this force category; the remaining two characters are blank.

a. The primary parent FRN is entered to provide hierarchial display of a force requirement. It is wholly defined by the FRNs of its associated secondary parents, subordinates, or both.

b. The PIC values for this category must be A, P, or X.

T3.3.1.4.4 Secondary Parent. This force category is defined by a 4-character FRN composed of the same basic FRN used to identify the primary parent, plus an appropriate value in the fourth character.

a. The secondary parent FRN is entered to provide hierarchial display of a force requirement. It is wholly defined by the FRNs of its associated subordinate force categories.

b. The PIC for this force category must always be the value "X" since its subordinates cannot be deployed in the split shipment mode.

T3.3.1.4.5 Subordinate. A subordinate force category is identified by either a 4-character or 5-character FRN, Its ascending organizational structure includes a primary parent or a secondary parent, or both.

a. Units subordinate to a primary parent will have the same basic FRN as the parent, plus an appropriate value in the fourth character. The fifth character may be used to indicate or exclude split shipment.

b. A primary parent subordinate unit moving in a split shipment mode requires two iterations of its FRN, plus a value of "C" and "P" in the fifth character of each FRN, to denote the respective cargo and personnel portions of the move.

c. A primary parent subordinate that must not be split at any point in the deployment is identified by the primary parent's FRN, plus the value "E" in the fifth character.

d. A unit subordinate to a secondary parent force category, or to both primary and secondary force categories, will have the same 4-character FRN used to identify its parent(s), plus an appropriate fifth-character value. (The values "Z," "C," and "P" are inappropriate for the fifth character, since this type of subordinate unit cannot be related to a split shipment).

e. The PIC is a blank value for all subordinate force categories.

T3.3.1.5 Subordinate Limit. When parts of a type unit are to to be deployed to different locations with different dates, routing, or modes, these components will be identified as subordinates. If more than 34 subordinates are required for one parent, two alternatives are available.

a. The primary parent may be subdivided into multiple primary parent entries at the basic FRN level, with each accommodating 34 subordinates. This alternative is recommended only if some or all of the subordinates must be deployed in a split shipment mode.

b. The primary parent may be subdivided into a maximum of 34 secondary parents, each capable of clustering 31 subordinates. Using this alternative, subordinates cannot be deployed in the split shipment mode.

T3.3.2 Fragmentation and Insert Codes. The fragmentation and insert codes are the second part (sixth and seventh characters) of the ULN, assigned at the unit identification level.

T3.3.2.1 Purpose. If the organization providing the force determines that more than one actual unit is required to satisfy a force requirement in the force list, the fragmentation code uniquely identifies each iteration of unit identification; the insert code identifies further iterations of the fragmentation, if required.

T3.3.2.2 Composition Rules. The fragmentation and insert codes may be any alphabetical (except I and O) or numeric value.

a. If only one iteration of unit identification data is submitted, both codes will be a blank value.

b. If more than one iteration of unit identification data is submitted, both codes must have a nonblank value. (If an insert code is not applicable; i.e., further subdivision of the fragmentation is not required, the insert code could be zero).

T3.4 CIN and PIN Composition. The CIN and PIN are 7-character fields comprised of the appropriate using organization and type movement codes for nonunit-related cargo or personnel, plus a unique sequencing number.

T3.4.1 Using Organization - Character 1. This code identifies the activity that will be the user of the nonunit-related cargo or personnel.

T3.4.2 Type Movement - Character 2. This code categorizes the functional use of the cargo/personnel.

T3.4.3 Sequencing Number - Characters 3, 4, 5, 6, and 7. This user-defined number (00001 through 99999) uniquely identifies each record within a using organization and type movement.

Table T-4. Force Providing Organization Codes

T4.1 Purpose. This code identifies the organization designated to provide the force. Additionally, it is used to identify shortfalls.

T4.2 Code Values and Meanings. Following are the valid codes and their meanings:

CODE	MEANING
1	USCINCCENT
2	USCINCLANT
3	CINCAD
4	USCINCEUR
5	USCINCPAC
6	USCINCSO
7	USCINCRED
8	CINCSAC
9	CINCMAC
A	HQ US Army
B	Navy Component of the Unified or Specified Command being Supported
C	Air Force Component of the Unified or Specified Command being Supported
D	Detailed support and the Host-Nation's approved means of satisfying them have been documented in an approved final plan.
E	MSC
F	HQ US Air Force
G	MTMC
H	Candidate for Host-Nation support where detailed support requirements have been identified, but have not yet been submitted to the Host-Nation.

CODE	MEANING
J	Joint Chiefs of Staff (or decision by the Joint Chiefs of Staff is required to make this unit available).
K	DOD Agency
L	Detailed support requirements have been submitted to Host-Nation for negotiation, but are not yet documented in an approved final plan.
M	HQ US Marine Corps
N	HQ US Navy
P	HQ US Coast Guard
Q	Allied Air Force
R	Allied Marine Corps
T	Allied Navy
U	Allied Organization
V	Allied Army
W	Army Component of the Unified or Specified Command being Supported
X	Shortfall
Y	USARJ
Z	EUSA

Table T-5. Service Codes/Using Organization Codes

T5.1 Purpose. For force records, this code identifies the Service of the required force. For nonunit-related cargo and personnel records, the code identifies the Service or allied organization that will be the user of the requirement.

T5.2 Code Values and Meanings. Following are the valid codes and their meanings. Note that certain codes are applicable to only a particular record type.

CODE	MEANING
A	US Army
B**	Navy Component Commander of Supported CINC
C**	Air Force Component Commander of Supported CINC
F	US Air Force
J	Joint Organization/OJCS
M	US Marine Corps
N	US Navy
P	US Coast Guard
Q*	Allied Air Force
R*	Allied Marine Corps
T*	Allied Navy
U*	Allied Organization
V*	Allied Army
W**	Army Component Commander of Supported CINC
Y**	Fleet Marine Force
Z**	Department of Health and Human Services
1**	USCINCCENT
2**	CINCLANT
3**	CINCAD
4**	USCINCEUR
5**	CINCPAC
6**	USCINCSO
7**	USCINCRED
8**	CINCSAC
9**	CINCMAC

* Use only with nonunit-related cargo and personnel records.
** Use only with nonunit-related personnel records.

Table T-6. Unit Type Codes and Functional Category Code

T6.1 Purpose. The unit type code (UTC) is the primary means of identifying types of units when describing a force requirement.

T6.2 General. The UTC is a 5-character, alphanumeric code that is associated with and allows each type unit/organization to be categorized into a kind of class having common distinguishing characteristics. The first character (functional category code) has significance in that it indicates the primary function of the type unit. JCS Pub 6, Volume II, Part 14, Chapter 3 contains guidance on UTC reporting and structure.

T6.3 UTC Categories. A UTC may be categorized as standard or nonstandard (complete or incomplete) in relation to associated data elements within the Type Unit Data File (TUCHA). Only the terms standard or nonstandard should be used; however, the terms complete and incomplete have been used in the past and are included in this discussion. Following are definitions of these categories:

a. Standard UTC. A UTC in the TUCHA file that has complete movement characteristics. Such a UTC would describe a deployable type unit of fixed composition. (When standard UTC data from the TUCHA file are to be used for TPFDD force data, the TUCHA movement characteristics data are not redundantly maintained in the SRF. Detailed movement characteristics are extracted from the TUCHA file, when needed.)

b. Nonstandard UTC. Describes a type unit which:

(1) has no fixed composition (variable), or

(2) is not contained in TUCHA, or

(3) has incomplete data or no associated movement characteristics in the TUCHA file (identified by the proper JCS functional category code followed by '99BB', or in accordance with AFR 28-3, USAF Operation Planning Process, and the USAF War and Mobilization Plan).

c. Complete UTC. Same as a standard UTC.

d. Incomplete UTC. A UTC in the TUCHA file that does not have complete movement characteristics. This type unit is considered to be nonstandard.

T6.4 Functional Category Codes. Following are valid codes and respective definitions, by Service:

DEFINITIONS — BY SERVICE

CODE	ARMY	NAVY	AIR FORCE	MARINE CORPS
A	MULTI FUNCTION TASK ORGANIZATION	TASK ORGANIZATION	NOT USED	NO FIXED ORGANIZATION
B	NOT USED	NOT USED	NOT USED	NOT USED
C	DOD AGENCIES-NATIONAL COMMAND AUTHORITIES-SERVICE HDQTRS-MAJOR COMMAND HDQTRS-MULTI FUNCTION COMMAND HDQTRS. (THIS IS ALSO THE JOINT DEFINITION.)	SERVICE HDQTRS-MAJOR STAFFS & COMMANDS-FLEET & TYPE COMMANDERS (LESS USMC)	MAJOR COMMAND HDQTRS-MAJOR COMMAND AUGMENTATION USAF PORTIONS OF JTF HDQTRS	COMMAND HDQTRS
D	CIVIL GOVT ENTITIES	NOT USED	NOT USED	NOT USED
E	NOT USED	ELECTRONICS	NOT USED	NOT USED
F	BIOMEDICAL SCIENCES	MEDICAL-DENTAL	MEDICAL SERVICES	MEDICAL-SURGICAL-DENTAL
G	CHEMICAL ACTIVITIES	ORDNANCE SYSTEMS ACTIVITIES	NOT USED	NOT USED
H	MAINTENANCE	SHIP DEVELOPMENT-CONSTRUCTION & MAINTENANCE	MAINTENANCE	MAINTENANCE
J	SUPPLY	SUPPLY	SUPPLY SERVICES	SUPPLY-SUPPORT
K	RESEARCH-DEVELOPMENT-TEST & EVALUATION	OCEANOGRAPHY-HYDROGRAPHY-GEODESY	RESEARCH-DEVELOPMENT-TEST & EVALUATION	RESEARCH-DEVELOPMENT TEST & EVALUATION

CODE	ARMY	NAVY	AIR FORCE	MARINE CORPS
6	COMMUNICATIONS-ELECTRONICS-SIGNAL	COMMUNICATIONS	COMMUNICATION AND COMMUNICATIONS MAINTENANCE	GROUND COMMUNICATIONS ELECTRONICS SIGNAL
7	TACTICAL CONTROL RESCUE-WEATHER	WEATHER	TACTICAL CONTROL AND COMMAND AND CONTROL	AIR CONTROL UNITS (INCLUDES MARINE AIR SUPPORT SQUADRONS-MARINE AIR CONTROL SQUADRONS-MARINE AIR TRAFFIC CONTROL SQUADRONS)
8	UNCONVENTIONAL WARFARE	NAVY MOBILE LAND UNITS	NOT USED	AVIATION SUPPORT
9	MISCELLANEOUS COMBAT-COMBAT SUPPORT-COMBAT SERVICE SUPPORT	ADVANCE BASE FUNCTIONAL COMPONENTS	UNIT HEADQUARTERS	MISCELLANEOUS COMBAT-COMBAT SUPPORT-COMBAT SERVICE SUPPORT

Table T-8. Force Indicator Codes

T8.1 Purpose. The force indicator code (FIC) distinguishes a standard force requirement from a nonstandard force requirement. The FIC cannot be directly modified; changes are accomplished by program software based on user-entered changes to UTC or personnel and cargo data in order to know the location of movement characteristics data. Movement characteristics data are either in the Type Unit Characteristics File (TUCHA) or the Summary Reference File (SRF).

T8.2 Code Values and Meanings. Following are valid FICs and their respective meanings.

CODE	MEANING
0	A standard force whose movement characteristics are derived from the TUCHA file.
1	A force whose cargo characteristics are the same as the type unit in the TUCHA file, but the personnel values for unit strength and/or personnel requiring nonorganic transportation vary from the TUCHA value(s).
2	A force whose personnel values are the same as the type unit in the TUCHA file, but the cargo movement characteristics values vary from the TUCHA values. Any detailed cargo movement characteristics associated with the force must be included in the SRF.
7	A nonstandard parent force requirement.
8	A force whose personnel values and cargo movement characteristics deviate from the type unit in TUCHA, force has no fixed composition, UTC ends in '99BB', UTC does not exist in TUCHA, or UTC is in TUCHA but is considered to be nonstandard. Any detailed cargo movement characteristics associated with the force must be included in the SRF.
9	A force whose personnel values and cargo movement characteristics contain actual unit movement characteristics. Any detailed cargo movement characteristics associated with the unit must be included in the SRF.

Table T-9. Transportation Mode and Source Codes

T9.1 Purpose. These codes indicate the preferred mode and source of transportation for movement of a force or nonunit-related requirement to the POE, intermediate location (if applicable), POD, and destination.

T9.2 Code Values and Meaning. The following table provides the valid mode and source combinations and respective explanations.

MODE	MODE CODE	SOURCE CODE	SOURCE EXPLANATION
Air	A	C	Supporting CINC controlled aircraft
Air	A	D	Supported CINC controlled aircraft
Air	A	H	Unit's organic aircraft (own vehicles)
Air	A	K	Military Airlift Command controlled aircraft
Air	A	M	Aircraft not assigned to CINC (QUICKTRANS, LOGAIR)
Air	A	N	Host Nation controlled aircraft
Sea	S	C	Supporting CINC controlled USN or USCG ship; not MSC
Sea	S	D	Supported CINC controlled USN or USCG ship; not MSC
Sea	S	K	Military Sealift Command (MSC) controlled ship
Sea	S	H	Unit's organic sea transport capable of independent sea transit
Sea	S	N	Host Nation controlled ship
Sea	S	W	Assault Follow-on Echelon
Land	L	C	Supporting CINC controlled land transport; not to CONUS SPOE
Land	L	D	Supported CINC controlled land transport; not to CONUS SPOE
Land	L	G	MTMC arranged transport (includes CONUS commercial air and surface transportation)
Land	L	H	Unit's organic land transport (own vehicles)

MODE	MODE CODE	SOURCE CODE	SOURCE EXPLANATION
Land	L	M	Service-provided land transport which is neither under operational control of a CINC nor arranged by MTMC
Land	L	N	Host Nation controlled land transport
Optional	P	C	Supporting CINC; not to CONUS SPOE
Optional	P	D	Supported CINC; not to CONUS SPOE
Optional	P	G	MTMC (CONUS use only)
Optional	P	N	Host Nation
None	X	C	Origin and POE same (CONUS sea POE)
None	X	X	Origin and POE same (not a CONUS sea POE) or POD and destination same
None	Z		Unit is in-place at its final destination (leave source code blank)

Table T-10. Load Configuration Codes

T10.1 Purpose. Load configuration codes describe type of loading for delivery of the force to the POD, intermediate location (if applicable), and the destination.

T10.2 Code Values and Meanings. Following are valid codes with respective meanings.

CODE	MEANING
A	Administrative loading--a loading system giving primary consideration to achieving maximum utilization of troop and cargo space without regard to tactical considerations. Equipment and supplies must be unloaded and sorted before they can be used.
F	Fleet issue.
L	Loaded for air-landed assault--forces and aircraft configured to facilitate delivery of a force by unloading personnel and material after landing in the objective area under combat conditions.
M	Loaded for amphibious assault--forces and ships configured and loaded for delivery of a force by sea in an amphibious operation into an objective area under combat conditions.
N	Not applicable.
P	Loaded for airdrop--aircraft configured for delivery of force or materiel into an objective area under combat conditions by unloading personnel and materiel while in flight.
T	Combat loading--the arrangement of personnel and the storage of equipment and supplies in a manner designed to conform to the anticipated tactical operation of the organization embarked. Each individual item is stored so that it can be unloaded at the required time.
W	Force deploy together--applicable to deploying forces only. Used to designate that all personnel, unit equipment, and accompanying unit supplies associated with the force must deploy together.

Table T-11. Discharge Constraint Codes

T11.1 Purpose. These codes describe limitations or restrictions at the POD, intermediate location (if applicable), and the destination.

T11.2 Code Values and Meanings. A maximum of two of the following codes may be entered for each location. If there are more than two constraints, the most significant two will be described. A single-value constraint will be left justified.

CODE	MEANING
B	Over-the-beach discharge
C	Opposed landing
H	Helo discharge
J*	Containerized cargo (sea movement only)
K	T-AKV fly-off
L	LST discharge
N	No special considerations
P	Self-sustaining vessel and in-the-stream discharge
R	Roll-on/roll-off
S	In-the-stream discharge
T	SEATRAIN/barge carrier
U	Undetermined
V	Self-sustaining vessel

*Applicable only in conjunction with code B, Third Position of Cargo Category Code, Table 18.

Table T-12. Geolocation Codes

T12.1 Purpose. Geolocation (GEOLOC) codes are used to designate the specific geographic location of the force or nonunit-related data origin, POE/alternate POE, intermediate location, POD/alternate POD, and destination.

T12.2 General. Locations are identified by a 4-character GEOLOC. GEOLOC codes should be selected from the Standard Specified Geolocation File (GEOFILE), which is managed by the Operations Directorate, OJCS. The following guidance is provided for consideration when entering GEOLOC codes:

a. The GEOFILE is an automated table of worldwide geographic locations including water areas. Data fields include GEOLOC, location name, installation type code (e.g., IAP--International Airport), state or country code, state or country name, and latitude/longitude point coordinates. The file may be used as an augment table, validity check, or extraction reference file for any applications requiring geographic locations. The following is a sample extract of the file:

GEOLOC	LOCATION NAME	INST TYPE	STATE/ COUNTRY	SHORT NAME
AFMS	ALLENTOWN	APT	42	PENNA
AFMY	ALLENTOWN	CTY	42	PENNA
ETFB	CP LEJEUNE	MGI	37	NC
XPZP	UNKN EXST INDIA	CON	IN	INDIA
XPQF	UNKNOWN EXST	CON	UN	UNKWN
00XG	MEXICO, GULF OF	GLF	1M	GMEX
00XT	WESTERN MED	SEA	8W	WMED

b. There may be more than one GEOLOC for the same location name. The difference is apparent in the type of installation code. In this connection, care must be exercised to insure that the correct GEOLOC is chosen and reported, depending upon the precise location it is intended to depict. For example: AFMY might be used when Allentown (city) is to be reported as an origin, whereas AFMS is the proper GEOLOC to indicate Allentown (airport) as a POE.

c. The boundaries for a given ocean area GEOLOC may be found in JCS Pub 6, Volume II, Part 14, Chapter 1 (GEOREQ).

d. The GEOFILE also includes a code for an unknown location in each country and a code for an unknown foreign location (to be used when country is not known).

e. When a GEOLOC code is input to a TPFDD, the state/country code is automatically added by JOPS programs. All other GEOFILE data values are retained in the GEOFILE only.

Table T-13. Location of Intermediate Stop

T13.1 Purpose. This code indicates where in the deployment process the intermediate location occurs.

T13.2 Location of Intermediate Stop. The following are valid codes which are applicable when an intermediate GEOLOC code has been designated.

CODE	DEFINITION
A	After POD (between POD and destination)
B	Between POE and POD.
C	Before POE (between origin and POE)

T13.3 Force Type Delay Code. The following are the two valid codes and meanings:

CODE	MEANING
F	Delay applies to incremental portions/fractions of the force.
T	Delay applies to entire/total force.

T13.4 Nonunit Reason for Intermediate Stop. See Table 25.

Table T-14. Date Formats

T14.1 Purpose. Many FRG modules generate or require the user to enter date values which differ in purpose, definition, and format.

T14.2 C-DAY. This date refers to the day deployment of the forces and nonunit cargo/personnel in the operation is to begin. (More specific definition of C-day, within the context of that prescribed in JCS Pub 1, will be provided by the highest command or headquarters responsible for coordinating the planned deployment.)

T14.2.1 Date Values. The date values required for various data fields discussed in this manual are reported as a date relative to C-DAY. For example: RLD (origin); ALD (POE); EAD, EDD, LAD, FAD (POD); and RDD (destination).

T14.2.2. Format. In the left-most position, a 'C' is entered for C-day and all subsequent days. In the remaining three positions, the number of days after C-day is entered. Days prior to C-day are denoted by entering the character 'M' followed by the number of days. Examples follow:

DAY	ENTER
C-DAY	C000
C+10	C010
C-5	M005

T14.3 Calendar Dates. These dates are used within the FRG whenever actual dates are to be reported. Following are examples of calendar date formats.

a. 18 June 1985. This format is frequently included in printed reports to show the OPLAN date, TUCHA file date, etc. It is also the format implemented when "CURRENT" is specified for the current date during execution of various FRG modules.

b. 850618. This format provides a numerical year, month, and day (YYMMDD). This type of format is system generated to depict creation/modification dates of a TPFDD/SRF.

Table T-15. UIC First-Character Codes

T15.1 Purpose. The force record unit identification code (UIC) identifies the actual unit that is designated to fill a force requirement.

T15.2 Composition. The UIC contains six alphabetic (except I and O) or numeric characters; it must be a valid UIC in accordance with JCS Pub 6, Volume II, Part 2, Chapter 1 (UNITREP).

T15.3 Code Values and Meanings. The first character of the UIC identifies the Parent Service of the force requirement; it must be one of the following codes:

CODE	DEFINITION
D	Joint
E	US Coast Guard
F	US Air Force
M	US Marine Corps
N	US Navy
W	US Army

Table T-16. Nonunit-Related Cargo Providing Organization Codes

T16.1 Purpose. This code identifies the Service or activity that is responsible for providing a nonunit-related cargo requirement; it is also used to denote a shortfall.

T16.2 Code Values and Meanings. Following are valid codes and respective meanings:

CODE	MEANING
A	US Army
D	Defense Mapping Agency
F	US Air Force
G	Host Nation Support
K	DOD Agency
L	Defense Fuel Supply Center
M	US Marine Corps
N	US Navy
P	US Coast Guard
Q	Allied Air Force
R	Allied Marine Corps
S	Defense Logistics Agency
T	Allied Navy
U	Allied Organization
V	Allied Army
X	Shortfall
Y	Single Manager for Conventional Ammunition

Table T-17. Nonunit-Related Type Movement Codes

Purpose. This code categorizes the functional use of the cargo or personnel defined in a nonunit record.

CARGO

CODE	MEANING
A	Support for deploying forces required prior to establishment of normal resupply
B	Intracoastal cargo
C	Support for nonmilitary programs; e.g., civil relief, agricultural, and economic development materials
H	Other cargo
L	Sourced Supplies
N	Military support for allies
R	Resupply
Q,V,X,Y,Z	Resupply (Effective May 87)
S	Supply buildup
T	Retrograde cargo
U	Chemical munitions
W	Nuclear weapons

PERSONNEL

D	Noncombatant Medical Evacuee (NEOMEDEVAC) (effective Dec 85)
E	Noncombatant evacuees; DOD sponsored personnel, Department of State personnel, other US Government sponsored personnel, and US citizens in a theater who must be moved within and/or from the theater.
F	Fillers
G	Retrograde personnel; DOD civilian and military personnel in a theater who must be moved from the theater, excluding MAC aircrew and aeromedical crew members in additional crew member (ACM) status.
K	Other personnel; e.g., casuals, TDY/TAD, or civilians
M	Medical evacuation
P	Replacements

Table T-18. Cargo Category Codes

T18.1 Purpose. This code identifies the type of cargo to be moved for a force or nonunit-related cargo requirement.

T18.2 Composition. The cargo category code consists of three characters; each character position has unique codes and meanings.

T18.3 Code Values and Meanings. Following are valid codes, with respective meanings, for each character position. (Note that the second character position codes are related to a type of record.)

FIRST POSITION CARGO CATEGORY CODE

CODE	MEANING
A	Vehicles[1] that are neither security nor hazardous cargo (see codes K and L below).
B	MSDA that are uncrated (if self-deployable aircraft will not be deployed under their own power, they must be identified as MSDA and force movement characteristics reported).
C	Floating craft.
D	Hazardous nonvehicular cargo (see code E below).
E	Security nonvehicular cargo or nonvehicular cargo that is both security and hazardous.
F	Cargo requiring refrigeration by the mover.
G	Bulk POL (nonpackaged).
H	Bulk granular cargo; i.e., crushed rock, sand, etc.
J	Other nonvehicular cargo, including water, packaged POL, crated aircraft, TAT yellow, etc.
K	Vehicles designated as security cargo or both security and hazardous cargo.
L	Vehicles designated as hazardous cargo, but not security cargo.
M	Ammunition.
N	Nuclear weapons.
P	Chemical munitions.

SECOND POSITION CARGO CATEGORY CODE

UNIT EQUIP	ACCOMP UNIT SUPPLY	NON-UNIT CARGO	MEANING[2]
0	4	A	Nonair-Transportable Cargo: (a) exceeds any of the dimensions; 1453" x 216" x 156" or (b) has a height between 114" and 156" and the width exceeds 144".
1	5	B	Outsized Cargo: Exceeds 1090" x 117" x 105" and is qualified by MILSTAMP aircraft air dimension code (too large for C-130/C-141).
2	6	C	Oversized Cargo: Exceeds the usable dimensions of a 463L pallet (104" x 84" x 96") or a height established by the cargo envelope of the particular model aircraft.
3	7	D	Bulk Cargo: Dimensions less than oversize cargo.
8	9		Organic Cargo: Non-TDA cargo, is either pre-positioned or will be transported via organic resources and does not require TOA support.

THIRD POSITION CARGO CATEGORY CODE

CODE	MEANING
A	This cargo is normally carried on a vehicle that is organic to the unit (not applicable to nonunit-related cargo).
B	This cargo can be containerized[3] (if unit-related, the cargo need not accompany the unit).
C	This cargo can be containerized,[3] but should accompany the unit (not applicable to nonunit-related cargo).
D	This cargo cannot/will not be containerized.[3]
E	Vehicles larger than 420" x 96" x 162" in at least one dimension and weighing more than 50 tons (this code will be used only when the first position of cargo category code is A, K, or L).
F	Vehicles larger than 420" x 96" x 162" in at least one dimension (this code will be used only when the first position of cargo category code is A, K, or L).
G	Vehicles weighing more than 50 tons (this code will be used only when the first position of cargo category code is A, K, or L).
H	Other vehicles (this code will be used only when the first position of cargo category code is A, K or L).

[1]The definition of vehicle includes all wheeled and tracked vehicles whether self-propelled or towed.

[2]All dimensions are expressed in length x width x height. Width and height pertain to aircraft door limitations.

[3]Containers refer to those associated with container ships. The largest container dimensions are 40' x 8' x 8.5'.

Table T-19. Heavy Lift and Dimension Category Codes

T19.1 Purpose. This code describes the heaviest item and greatest dimension of the largest item in the cargo category being described. It is applicable to force and nonunit-related cargo data (excluding bulk POL and bulk granular) for any cargo category code of a given ULN/FRN or CIN.

T19.2 Cargo Assessment. Weight and sizes are assessed as follows:

a. The heaviest item among those being reported (fractions of a ton will be rounded to next tons; e.g., 10.3 tons will be considered as 11 tons).

b. The greatest dimension of the largest item being reported.

c. The heaviest and largest may not necessarily refer to the same item. For example: The heaviest item reported is a 60-ton tank, and the largest item reported is a truck that is 37 feet long. The correct code is 'M', which shows the heaviest item is 51 to 60 tons and the largest item is over 35 feet in any dimension.

T19.3 Code Values and Meanings. Following are valid codes and meanings:

CODE	MEANING
A	Under 5 tons and less than 35 feet in any dimension
B	5 to 10 tons and less than 35 feet in any dimension
C	11 to 30 tons and less than 35 feet in any dimension
D	31 to 50 tons and less than 35 feet in any dimension
E	51 to 60 tons and less than 35 feet in any dimension
F	61 to 70 tons and less than 35 feet in any dimension
G	Over 70 tons and less than 35 feet in any dimension
H	Under 5 tons and 35 feet or more in any dimension
J	5 to 10 tons and 35 feet or more in any dimension
K	11 to 30 tons and 35 feet or more in any dimension
L	31 to 50 tons and 35 feet or more in any dimension
M	51 to 60 tons and 35 feet or more in any dimension
N	61 to 70 tons and 35 feet or more in any dimension
P	Over 70 tons and 35 feet or more in any dimension

Table T-20. Nonunit-Related Cargo Supply Class/Subclass Codes

T20.1 Purpose. These codes specify the supply class and associated subclass for the nonunit-related cargo being described.

T20.2 Code Values and Meanings. Following are valid supply class codes and associated subclass codes. (Note that supply class codes 6 and 0 do not have an associated subclass code.)

SUPPLY CLASS CODE	SUBCLASS CODE
1 - Subsistence: Food	A - Nonperishable dehydrated subsistence that requires organized dining facilities.
	C - Combat Rations (includes meals, ready to eat (MRE) that requires no organized dining facility; used in both combat and in-flight environments. Includes gratuitous health and welfare items.
	R - Refrigerated subsistence
	S - Nonrefrigerated subsistence (less other subclasses).
	W - Water
2 - General Support Items: Clothing, individual equipment, tentage, organizational tool sets/kits, hand tools, and administrative/housekeeping supplies.	A - Air
	B - Ground support material
	E - General supplies
	F - Clothing and textiles
	G - Electronics
	M - Weapons
	T - Industrial supplies (e.g., bearings, block and tackle, cable, chain, wire, rope, screws, bolts, studs, steel rods, plates, and bars)

SUPPLY CLASS CODE	SUBCLASS CODE
3 - POL: Petroleum (including packaged items), fuels, lubricants, hydraulic and insulating oils, preservatives, liquids and compressed gasses, coolants, de-icing and anti-freeze compounds--plus components and additives of such products, including coal.	A - Air W - Ground (surface) P - Packaged POL
4 - Construction: Construction and barrier materials.	A - Construction materials B - Barrier materials
5 - Ammunition: Ammunition of all types (including chemical, radiological, and special weapons), bombs, explosives, mines, fuses, detonators, pyrotechnics, missiles, rockets, propellants, and other associated items.	A - Air W - Ground (surface)
6 - Personal Demand Items: Nonmilitary sales items.	None (blank)
7 - Major End-items: A final combination of end-products ready for its intended use; e.g., launchers, tanks, racks, adapters, pylons, mobile machine shops, and administrative and tracked vehicles.	A - Air B - Ground support material (includes power generators, fire-fighting, and mapping equipment). D - Administrative/general purpose vehicles (commercial vehicles used in administrative motor pools). G - Electronics J - Tanks, racks, adapters, and pylons (TRAP).

SUPPLY CLASS CODE	SUBCLASS CODE
	K - Tactical/special purpose vehicles (includes trucks, truck-tractors, trailers, semi-trailers, etc.)
	L - Missiles
	M - Weapons
	N - Special Weapons
	X - Aircraft engines
8 - Medical Material/ Medical Repair: All medical materials and repair parts, including blood and fluids.	A - Medical material parts, including repair parts peculiar to medical items.
	B - Blood/fluids
9 - Repair Parts: All repair parts (less medical-peculiar repair parts) and components, including kits, assemblies, and subassemblies (repairable and nonrepairable) required for all equipment, dry radio batteries.	A - Air
	B - Ground support material power generators and bridging, fire-fighting, and mapping equipment.
	D - Administrative vehicles (vehicles used in administrative motor pools).
	G - Electronics
	K - Tactical vehicles (including trucks, truck-tractors, trailors, semi-trailers, etc.)
	L - Missiles
	M - Weapons
	N - Special Weapons
	T - Industrial supplies (e.g. bearings, block and tackle, cable, chain, wire rope, screws, bolts, studs, steel rods, plates and bars).
	X - Aircraft engines

SUPPLY CLASS CODE	SUBCLASS CODE
0 (10) - Materiel to Support Military Programs: Agricultural and economic development not included in supply classes 1 through 9.	None (blank)

Table T-21. Nonunit-Related Personnel Providing Organization Codes

T21.1 Purpose. This code identifies the Service or activity that is responsible for providing a nonunit-related personnel requirement. It is also used to denote a shortfall.

T21.2 Code Values and Meanings. Following are valid codes and respective meanings:

CODE	MEANING
1	USCINCCENT
2	USCINCLANT
3	CINCAD
4	USCINCEUR
5	USCINCPAC
6	USCINCSO
7	USCINCRED
8	CINCSAC
9	CINCMAC
A	HQ US Army
B	Navy Component Commander of Supported CINC
C	Air Force Component Commander of Supported CINC
F	HQ US Air Force
J	Organization of the Joint Chiefs of Staff
M	HQ US Marine Corps
N	HQ US Navy
P	HQ US Coast Guard
Q	Allied Air Force
R	Allied Marine Corps
T	Allied Navy

CODE	MEANING
U	Allied Organization
V	Allied Army
W	Army Component Commander of Supported CINC
X	Shortfall
Y	Fleet Marine Service
Z	Department of Health and Human Services

Table T-22. Movement Table Departure Location Codes

T22.1 Purpose. The departure location code identifies the location from which a requirement departs on its way to the next stop. The leg of transportation involved in completing the movement of the requirement is specified by the transportation leg code, which indicates the type of movement table to be used.

T22.2 General. These codes are associated with force and nonunit-related requirements.

T22.3 Departure Location Codes. This code always reflects the earliest movement point for a given movement table record. For example, if the requirement's origin equals its port of embarkation, the earliest movement point would be its origin (code A). Following are valid code values and meanings:

MOVEMENT TABLE DEPARTURE LOCATION CODES

CODE	LOCATION
A	Origin
B	Port of Embarkation
C	Intermediate Location
D	Port of Debarkation

T22.4 Transportation Leg Codes. The end point of the movement's leg of transportation determines the type of movement table to be used. For example, if the requirement's port of debarkation equals its destination, the end point of the movement's leg of transportation would be to the destination (code P). Following are valid code values and meanings:

MOVEMENT TABLE TRANSPORTATION LEG CODES

CODE	TRANSPORTATION LEG
L	Movement to Port of Embarkation
M	Movement to Intermediate Location
N	Movement to Port of Debarkation
P	Movement to Destination

Table T-23. Movement Table Flag Day Constraint Codes

T23.1 Purpose. These codes are used in the movement table record to indicate a constraint when the movement requirement cannot be met.

T23.2 Code Values and Meanings. Following are valid constraint codes and meanings.

CODE	CONSTRAINT
Departure Location	
1	Onloading
2	Parking/docking
3	Port or airfield reception/turnaround capability
4	Throughput
U	Transportation vehicles
V	Less-than-minimum acceptable load
Arrival Location	
5	Offloading
6	Parking/docking
7	Port or airfield reception/turnaround capability
8	Throughput
9	Storage
Y*	Impossible closure time
Transportation Channel	
0	Vehicles

* RLD is the same or later than the desired delivery date or an on-call unit is specified for the POD LAD or destination RDD.

Table T-24. Movement Table Transportation Means Codes

T24.1 Purpose. This movement table record code is used to identify the specific means of transportation for moving the cargo and personnel requirements.

T24.2 Code Values and Meanings. Following are valid codes and respective definitions.

CODE	MEANS OF TRANSPORTATION
B	Bus (motor vehicle, passenger)
J	LOGAIR
Q	QUICKTRANS
R	Rail
S	Military sea
T	Truck (motor vehicle, cargo)
V	Commercial air
W	Inland waterway
Y	Military air

Table T-25. Reason for Intermediate Stop and Type Delay

T25.1 Purpose. A reason for the intermediate stop is used with nonunit records. A type delay is used with force records.

T25.2 Nonunit Intermediate Stop Reason. Following are valid codes with their respective meanings:

CODE	MEANING
A	Change Mode/Source (Cargo/Personnel)
B	Consolidation of Cargo and Personnel
C	Awaiting Transportation (Cargo/Personnel)
D	Load Reconfiguration
E	Container Stuffing
F	Repair/Maintenance/Inspection
G	Assembly of Item
H	Temporary Storage
J	Temporary Buildup (Cargo/Personnel)
K	Refinement (POL)
L	Dispersal (Cargo/Personnel)
M	Transshipment/Partitioning (Cargo)
N	Training (Personnel)
P	Marry-up with Unit (Cargo/Personnel)
Q	Other as defined by Supported or Supporting Commands

T25.3 Force Type Delay Code. The following are the two valid codes and meanings:

CODE	MEANING
F	Delay applies to incremental portions/fractions of the force.
T	Delay applies to entire/total force.

Table T-26. Fuel Type Codes

T26.1 Purpose. The fuel type code specifies the type of fuel whenever the nonunit-related cargo being described is bulk POL.

T26.2 Code Values and Meanings. Following are valid codes and corresponding product nomenclature:

CODE	PRODUCT NOMENCLATURE
DFA	Diesel Fuel, Grade DF-A, Arctic, FED-VV-F-800B (NATO F-56)
DFM	Diesel Fuel, MIL-F-16884C (NATO F-76)
DFS	Diesel Fuel (MMS), AFFID 9140/1
DFW	Diesel Fuel (with exceptions to MIL-F-16884C)
DF1	Diesel Fuel, Grade DF-1, Winter, FED-VV-F-800
DF2	Diesel Fuel, Grade DF-2, FED-VV-F-800 (NATO F-54)
FSL	Fuel, Oil Burner, Low Sulfur, MIL-F-859
FS1	Fuel, Oil Burner, FS-1, FED-VV-F-815
FS2	Fuel, Oil Burner, FS-2, FED-VV-F-815
FS4	Fuel, Oil Burner, FS-4, FED-VV-F-815
FS5	Fuel, Oil Burner, FS-5, FED-VV-F-815
FS6	Fuel, Oil Burner, FS-6, FED-VV-F-815
GUP	Gasohol, Automotive, Premium Grade, Unleaded, PD ME-102A
GUR	Gasohol, Automotive, Regular Grade, Unleaded, PD ME-102A
GUS	Gasohol, Automotive, Special Grade, Unleaded, PD ME-102A
JAA	Turbine Fuel, Aviation Grade Jet A, ASTM-D-1655
JAB	Turbine Fuel, Aviation, Grade Jet B, ASTM-D-1655
JA1	Turbine Fuel, Aviation, Grade A-1, ASTM-D-1655, Type A-1
JPX	Propellant, Unsym-Demethyl-Hydrazine Jet Fuel, MIL-P-26694B
JP4	Turbine Fuel, Aviation, Grade JP-4, MIL-T-5524
JP5	Turbine Fuel, Aviation, Grade JP-5, MIL-T-5524 (NATO F-44)

CODE	PRODUCT NOMENCLATURE
JP8	Turbine Fuel, Aviation, Grade JP-8, MIL-T-83133
JTS	Turbine Fuel, Aviation, JP-TS, MIL-T-25524
KSD	Kerosene, Deodorized, FED-VV-K-220
KSN	Kerosene, FED-VV-K-211
MGP	Gasoline, Automotive, Premium, 4.23 gms. per. gal. max. lead content, FED-VV-G-76
MGR	Gasoline, Automotive, Regular, 4.24 gms. per. gal max. lead content, FED-VV-G-76
MGU	Gasoline, Automotive, Unleaded, .07 gms. per. gal. max tetraethyl lead content, FED-VV-109
MGX	Gasoline, Automotive, Combat Referee Grade, Grade I, MIL-G-46015A (MR)
MG1	Gasoline, Automotive, Combat Type I, 3.17 gms. per gal. max. metallic lead content, MIL-G-3056 (NATO F-46)
MG2	Gasoline, Automotive, Combat Type II, 3.17 gms. per gal. max. metallic lead content, MIL-G-3056 (NATO F-46)
MLP	Gasoline, Automotive, No/Low Lead, Premium, 50 gms. per gal. max. lead content, FED-VV-G-1590
MLR	Gasoline, Automotive, No/Low Lead, Regular, 50 gms. per gal. max. lead content, FED-VV-G-1590
MUP	Gasoline, Automotive, Premium, No Lead, FED-VV-G-1890
MUR	Gasoline, Automotive, Regular, No Lead, FED-VV-G-1690
MUS	Gasoline, Automotive, Special, No Lead, FED-VV-G-1690
NDF	Fuel, Oil Burner, Navy Distillate, MIL-F-24397 (NATO F-85)
NSF	Fuel, Oil Burner, Navy Special, MIL-F-859 (NATO F-77)
SII	Inhibitor, Icing, Fuel System, MIL-I-27686E
130	Gasoline, Aviation, Grade 100/130, MIL-G-5572 (NATO F-18)
131	Gasoline, Aviation, Grade 100/130, Low Lead, MIL-G-5572E
145	Gasoline, Aviation, Grade 115/145, MIL-G-5572 (NATO F-22)
887	Gasoline, Aviation, Grade 80/87, MIL-G-5572

Table T-27. FRN/CIN/PIN Reserved Assignments

T27.1 Purpose. The FRN, CIN, and PIN are used respectively to identify force, nonunit-related cargo, and nonunit-related personnel records on the TPFDD file. Use of these identifiers in more than one TPFDD is not permitted; FRNs, CINs, and PINs must be unique in order to merge OPLAN TPFDD files for possible simultaneous review and implementation.

T27.2 Code Values and Meanings. To avoid duplication, the following reserved assignments (by organization) of FRN first characters and ranges of CIN/PIN sequencing numbers are promulgated:

ORGANIZATION	FRN FIRST CHARACTER	CIN/PIN SEQ NUMBER RANGE
EUCOM	A, B, C, D, E, F, G, H	40000-49999
PACOM	J, K, L, M, N	50000-59999
LANTCOM	P, Q, R, S	20000-29999
CENTCOM	T, U, V, W	10000-19999
SOUTHCOM	X, Y, Z	60000-69999
ADCOM	1, 2	30000-39999
REDCOM	3, 4	70000-79999
Army	5	80000-84999
Navy	6	85000-89999
Marine Corps	7	90000-94999
Air Force	8	95000-99999
Coast Guard	9	00000-04999
Joint	0	05000-09999