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DATA DICTIONARY FOR THE MODEL 1, PACKAGE 2, DATA BASE OF THE FLIGHT SERVICE AUTOMATION SYSTEM

John DiNofrio
William Brodie, Jr.
Richard Page

FEDERAL AVIATION ADMINISTRATION

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DATA REPORT

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16. Abstract This Data Dictionary provides a complete documentation of the Flight Service Automation System (FSAS) data base for Model 1, Package 2. This Dictionary is intended for use by the sources providing the data input, as well as the contractor who receives the Data Base Team (DBT) assembled output. This Dictionary was developed and is maintained by the Flight Service Station Branch, Systems Simulation and Analysis Division at the Technical Center.					
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1. INTRODUCTION.

1.1 SUMMARY.

The Data Dictionary provides a complete documentation of the Flight Service Automation System (FSAS) Data Base for Model 1, Package 2, as it appears on the input tape. The files and data support FAA-E-2685 and the Adaptation Data Logical Characteristics Document.

This Dictionary is intended for use by the sources providing the data input as well as the contractor who receives the Data Base Team (DBT) collected data output. It includes a definition of each element or group of elements used in the Data Base. Also included are the applicable validation checks to be performed by the DBT. The validation checks are not intended to be a substitution for the contractor provided validation checks. Their purpose is to eliminate the more obvious errors as the data are collected.

1.2 ENVIRONMENT.

This Data Dictionary is developed and maintained by the Flight Service Station Branch (ACT-250) DBT for the FSAS Model 1, Package 2, system. The input data shall be provided by Airway Facilities Service (AAF) and Air Traffic Service (AAT) of the Federal Aviation Administration (FAA) and the contractor. The data will be assembled by the DBT at the FAA Technical Center, Atlantic City Airport, New Jersey.

1.3 TERMINOLOGY AND DEFINITIONS.

The purpose of this section is to eliminate ambiguity in this document. The following definitions and terminology apply throughout the Data Dictionary. An attempt has been made to conform to "standard" terminology and definitions.

Data Element - An indivisible unit of information (e.g., the three character identifier for Albuquerque, ABQ, is a data element).

Key Characters - Any one character data element as defined within this document. Key character refers to any one character data element given special meaning for purpose of data base construction and use. The only exception is single character data enclosed by the parentheses key characters.

Record - One line of data

Subset - A sequential list of like data

Set - A logical collection of one or more subsets

File - A logical collection of one or more sets

Alpha - A letter (A through Z)

Digit - A number (0 through 9)

Alphanumeric - A letter or digit

Character - A letter, digit or character (any printable symbol)

2. DESCRIPTION.

2.1 INTRODUCTION.

This section of the Data Dictionary provides a description of the files required for the Model 1, Package 2, Data Base and a description of the software used to build and maintain the Data Base (e.g., validation programs or edit programs). This information is divided into three sections: Section 2.2 describes the structural conventions that apply to all the files described in this dictionary. Section 2.3 names the files that contain the data required in the Model 1, Package 2, Data Base. A short description is also included. Section 2.4 describes the software used for file generation and maintenance; this includes support and system software and software designed and developed by the DBT.

2.2 CONVENTIONS.

The conventions listed here have been adapted for the files that come under the purview of this Data Dictionary, specifically, the files that comprise the Static Data Base for Model 1, Package 2, of the FSAS. Any exceptions to these conventions shall be noted in section 2.3.

2.2.1 Records.

The logical record length has been established as 80 bytes long. Data will reside in columns 1 through 72, columns 73 through 80 are reserved for sequence numbers. The structure is free format (i.e., not column dependent).

2.2.2 Data Elements.

Data elements, except key characters, are a minimum of two non-blank characters long. Imbedded blanks shall be signified by a hyphen (-). Data elements cannot continue from one record to the next, they must occur in their entirety within the bounds of one logical record. Any exceptions to this convention are stated in section 3.

2.2.3 File Structure.

Files are structured as sequential lists with owner-member relationships. The beginning of each list is a special character (these are listed in detail in section 3)

An example of an owner-member list is an Airway Route in the Airway Route file. The first list is a one-element list contained in the route identifier. This is the owner. The subsequent lists are the route data; e.g., fixes on the route, junctions, etc. These are the members. An I key character indicates the owner of any sequence. The members of the sequence are subsequent lists designated by valid key characters (one owner and its subsequent members comprise a set as defined in section 1).

2.2.3.1 File.

Beginning Delimiter - A valid file identifier which will be four to eight characters long. This shall be the first element of the first record of a file.

End Delimiter - A dollar sign (\$) character not in column one. This shall be the first element of the last record in a file.

2.2.3.2 Set.

Beginning Delimiter - An I key character. A valid I key character shall be in column one of a record or an I key character immediately preceded by a blank and immediately succeeded by a blank.

End Delimiter - A valid I key character or an end of file delimiter (\$).

2.2.3.3 List.

Beginning Delimiter - A valid list key character. List key characters are file specific and are defined in section 3.

End Delimiter - A valid delimiter for a subsequent list, a valid I key character or a valid end of file delimiter (\$), whichever comes first.

2.3 FILE DESCRIPTIONS.

The following files describe the contents of the Static Data Base for Model 1, Package 2, of the FSAS. These files conform to the structural conventions listed in section 2.2. The information contained in this section includes the file's full name, the valid file identifier and specific information required to describe each file.

2.3.1 Air Traffic Control Address File.

Valid File Identifier - ATCA

Fixed Length Data Elements

Purpose: To cross reference Air Route Traffic Control Center (ARTCC) teletype and computer identifiers.

2.3.2 Airway Route File.

Valid File Identifier - AWAY

Variable Length Data Elements

Purpose: To define the fixes that make up a route and provide sufficient information to support route validation checks and processing.

2.3.3 Flight Plan Storage File.

Valid File Identifier - FPSTORE

Variable length Data Elements

Purpose: Provides for the storage of flight plans that are used at least once a month.

2.3.4 International Flight Plan Storage File.

Valid File Identifier - IFPSTOR

Variable Length Data Elements

Purpose: Provide for the storage of international flight plans that are used at least once a month.

2.3.5 Location/Fix File.

Valid File Identifier - LOCFIX

Variable Length Data Elements

Purpose: To identify a location and describe it in sufficient detail to satisfy the requirements of other files. The data in this file is also used for the encode/decode function.

2.3.6 Position Capabilities File.

Valid File Identifier - POSCAP

Fixed Length Data Elements

Purpose: This file provides the default functions and/or capabilities for each position within the Flight Service Data Processing System (FSDPS) and the associated AFSS's.

2.3.7 Parameter Adaptation File.

Valid File Identifier - PRAM

Variable Length Data Elements

Purpose: To identify FSDPS and AFSS parameters and provide values for each.

2.3.8 Sequence Presentation File.

Valid File Identifier - SEQUE

Variable Length Data Elements

Purpose: Identify static and/or dynamic data for selective retrieval within the FSDPS.

2.3.9 Standard Instrument Departure Route File.

Valid File Identifier - SIDRTE

Variable Length Data Elements

Purpose: To identify and define departure routes, valid transition fixes and connect routes.

2.3.10 Standard Terminal Arrival Route File.

Valid File Identifier - STARTE

Variable Length Data Elements

Purpose: To identify and define arrival routes, with transition routes and fixes.

2.3.11 Substitute Fix File.

Valid File Identifier - SUBFIX

Variable Length Data Elements

Purpose: To equate standard United States (U.S.) and nonstandard International Civil Aviation Organization (ICAO) location identifiers.

2.3.12 Service A and B Source File.

Valid File Identifier - WXDATA

Variable Length Data Elements

Purpose: To provide the sources for weather messages and other standard or nonstandard message sources.

2.4 USING SOFTWARE AND SUPPORT SOFTWARE.

The Data Base software is comprised of two types, system/utility software and using software. System/utility (acquired from INTERDATA, a division of Perkin Elmer Corporation) is described in 2.4.1. Using software, developed by the DBT, is described in 2.4.2.

NOTE: The hardware used by the DBT is the INTERDATA Model 8/32 minicomputer.

2.4.1 System/Utility Software.

The operating system is INTERDATA's OS/32 MT (03-072), a multitasking OS for 32-bit architecture. Text editing is performed by the INTERDATA Utility OS EDIT (program number 03-063). DBT programs written in FORTRAN are compiled by the INTERDATA FORTRAN Compiler (03-118) which produces an assembly language program. Assembly language programs are assembled into machine language using the INTERDATA Assembler (03-066) level VI.

2.4.2 Using Software.

Using software is written in INTERDATA's FORTRAN VI, (a superset of American National Standard (ANSI) standard X3.9-1966 FORTRAN) and INTERDATA's Common Assembly Language (CAL). Using software consists of six programs: (1) translate program, (2) validation program, (3) sequence identification program, (4) sort program, (5) file manipulation program, and (6) tape reading program.

2.4.2.1 DBTRANS.DBT.

This program translates alpha, numeric, and some special characters represented as EBCDIC characters to ASCII characters. The program is written in CAL.

2.4.2.2 DBVAL.DBT.

This program validates the contents of the Data Base files. The validation criteria for each file differs and is described in section 3 of this document. DBVAL.DBT prints validation diagnostics which include the following:

- a. The file in which the datum not meeting the edit criteria resides.
- b. The line sequence identification in which the nonconforming data resides.
- c. The edit criteria not met; e.g., VALIDITY CHECK---FILE=PRAM SEQ#=1070 CHARACTER STRING TOO LONG.

DBVAL.DBT calls the following subroutines as required. There is one subroutine for each file in the Data Base. Subroutine names and corresponding files are indentified below.

ATCAVAL.DBT - This subroutine validates the Air Traffic Control Address file.

AWAYVAL.DBT - This subroutine validates the Airway Route file.

FPSTVAL.DBT - This subroutine validates the Flight Plan Storage.

IFPSVAL.DBT - This subroutine validates the International Flight Plan Storage file.

LOCFVAL.DBT - This subroutine validates the Location/Fix file.

POSCVAL.DBT - This subroutine validates the Position Capabilities file.

PRAMVAL.DBT - This subroutine validates the Parameter Adaptation file.

SEQUVAL.DBT - This subroutine validates the Sequence Presentation file.

SIDRVAL.DBT - This subroutine validates the Standard Instrument Departure Route file.

STARVAL.DBT - This subroutine validates the Standard Terminal Arrival Route file.

SUBFVAL.DBT - This subroutine validates the Substitute Fix file.

WXDAVAL.DBT - This subroutine validates the Weather and Message Data Transmission file.

2.4.2.3 DBSEQ.DBT.

This program is executed after the file structure (i.e., proper form sequence of contents) has been validated. This program writes line sequence numbers on the records in the file. Sequence numbers shall reside in columns 73 to 80 of the records in the file and are in increments of 10. This program is written in FORTRAN.

2.4.2.4 DBSORT.DBT.

This program consists of two subprograms: DBSORTA.DBT and DESORTB.DBT. DBSORTA.DBT arranges one through twelve character alphanumeric data into a linear array ascending from 0 to 9 then A through Z. DESORTB.DB arranges one through twelve character data into a linear array according to specified criteria. This subprogram should be executed by programmer-level personnel to ensure reliable results.

2.4.2.5 DBARANG.DBT.

This program consists of two subprograms that may function jointly or independently to produce the effect of three programs. By separate use of the subprograms the user may (1) disaggregate data into distinct, nonoverlapping files or distinct files with some shared data or (2) order the records within a file in accordance with a given criteria. By using the subprograms jointly, the user may disaggregate data into new files and also order the files simultaneously. The selection criteria for data aggregation and the ordering criteria (e.g., alphabetic) is specified at execution time. This program is written in FORTRAN.

2.4.2.5.1 DBALLOC.DBT.

This subroutine groups data as specified by the user.

2.4.2.5.2 DBRESTRK.DBT.

This subroutine restructures a file as specified by the user.

2.4.2.6 DBMAGTR.DBT.

This program reads magnetic tape. It also allocates new files provided the tape is in the DBT format and contains DBT recognized files.

3. LOGICAL CHARACTERISTICS.

3.1 LOGICAL FILE STRUCTURE.

The logical files are designed to satisfy a particular specification requirement; i.e., the AWAY file provides enough data to process a route from end to end or to identify junctions with other routes and the ATCA file provides the teletype and computer addresses for ARTCC's, etc. The intent is to provide related data for an element one time and then reference to it by name; i.e., a fix used in the AWAY file would have it's latitude and longitude adapted in the LOCFIX file.

3.2 COMMON DATA ELEMENTS.

Some data elements are used in more than one file. Listed below are elements and the primary definition files and other files that use the element.

<u>Element</u>	<u>Primary File</u>	<u>Using Files</u>
ROUTE NAME	AWAY	FPSTORE, IFPSTORE, SIDRTE, STARTE
LOCATION IDENTIFICATION	LOCFLX	AWAY, FPSTORE, IFPSTOR, POSCAP, SEQUE, SIDRTE, STARTE, SUBFIX, WXDATA
ARTCC ADDRESS	ATCA	PRAM, FPSTORE, IFPSTOR
FSDPS POSCAP,	(None) IDENTIFICATION	FPSTORE, IFPSTORE, PRAM, SEQUE
SIDRTE NAME	SIDRTE	FPSTORE, IFPSTORE, STARTE, AWAY
STARTE NAME	STARTE	FPSTORE, IFPSTORE, SIDRTE, AWAY
SUBSTITUTE LOCATION IDENTIFICATION	SUBFIX	IFPSTORE
WEATHER/ MESSAGE TYPE	WXDATA	SEQUE

3.3 DATA ELEMENTS BY FILE.

This section describes all data elements and their attributes.

3.3.1 ATCA File Data Elements.

3.3.1.1 Element Name - FILE ID.

Class - Alpha

Size - 4

Edit Criteria - Must contain the character string ATCA.

Description: This is the first element in the file and occurs only in the first record. It serves to identify the ATCA file. This file should contain 20 "I" key sets, one for each ARTCC.

3.3.1.2 Record Type - Center Teletype (TTY) and Computer Identifiers Set Record Elements.

3.3.1.2.1 Element Name - CENTER TTY IDENTIFIER/COMPUTER IDENTIFIER KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character I.

Description: This element begins a set of Center TTY Identifier data and also serves to terminate any preceding set of ATCA data. This element must be followed by the TELETYPE ADDRESS element and must be separated from it by one or more blanks.

3.3.1.2.2 Element Name - TELETYPE ADDRESS.

Class - Alpha

Size - 3

Edit Criteria - The first letter must be a Z, and the element must be unique within the ATCA file.

Description: This element is the TTY address for an ARTCC. The TTY address is used to transmit messages to the ARTCC. However, it is converted to an international type address and the next element must be added for ARTCC computer recognition. This element must be followed by one or more spaces and the COMPUTER ADDRESS element.

3.3.1.2.3 Element Name - COMPUTER ADDRESS.

Class - Alpha

Size - 3

Edit Criteria - The first two letters must be ZC, and the element must be unique within the ATCA file.

Description: This element is the computer address for the previous element. The element must be followed by one or more blanks and the character I or \$.

3.3.1.3 Record Type - End of File Subset Record Elements.

3.3.1.3.1 Element Name - END OF FILE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character \$ in other than column one.

Description: This element indicates the end of the ATCA file. The character \$ may only be used once and at the end of a file. The END OF FILE KEY must be followed by one or more blanks.

Example Of ATCA File:

```
ATCA
  I ZAB ZCA
  I ZTL ZCT
  . . .
  . . .
  I ZDC ZCW
  $
```

3.3.2 AWAY File Data Elements.

3.3.2.1 Element Name - FILE ID.

Class - Alpha

Size - 4

Edit Criteria - Must contain the character string AWAY.

Description: This is the first element in the file and occurs only in the first record. It serves to identify the Airway Route file.

3.3.2.2 Record Type - Route Name Set Record Elements.

3.3.2.2.1 Element Name - ROUTE KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character I.

Description: This element begins a set of Airway Route data and also serves to terminate any preceding set of Airway Route data. This element must be followed by at least one blank and the ROUTE NAME element.

3.3.2.2.2 Element Name - ROUTE NAME.

Class - Alphanumeric

Size - 2 to 8

Edit Criteria - Route names must be unique within route files and cannot be one of the following names XXX, VFR, or DVFR.

Description: This element occurs once per Airway Route data set and uniquely identifies the airway within the file. An RNAV route may be included in this file; it will normally be a jet (J) airway identification with an R added; i.e., J101R. This element must be followed by at least one blank and one or more occurrences of the FIX NAME subset.

3.3.2.3 Record Type - Fix Name Subset Record Elements.

3.3.2.3.1 Element Name - FIX NAME KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character F.

Description: This element identifies the beginning of a FIX NAME subset, consisting of the FIX NAME KEY F followed by at least one blank and one or more occurrences of the FIX NAME element. The FIX NAME KEY must be repeated for additional FIX NAME elements if the J, Z, or A keys are adapted.

3.3.2.3.2 Element Name - FIX NAME.

Class - Character

Size - 2 to 12

Edit Criteria - Must correspond to an IDENTIFIER data value in the LOCATION/FIX (LOCFIX) file, unless they are external to the NDB. A FIX NAME may only appear once on the airway being adapted.

Description: This multiple occurrence element contains the identification of fixes that comprise the route. Each route must include two or more FIX NAME elements, each followed by at least one blank.

An external fix is identified in the LOCFIX file or is beyond a non-U.S. fix; i.e., at the beginning or end of the route. A route may start and/or end external to the NDB. If a route exits the NDB and returns, the external fixes between the exit and entry points should be adapted in the LOCFIX file.

NOTE: Junctioning Route, Segment or Off Route Fix/Airport subsets may be adapted in any sequence after an F key subset.

3.3.2.4 Record Type - Junctioning Route Subset Record Elements.

3.3.2.4.1 Element Name - JUNCTIONING ROUTE KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character J.

Description: This element identifies routes that junction with the route being adapted at the FIX NAME element it follows. The JUNCTIONING ROUTE KEY element is followed by at least one blank and one or more JUNCTIONING ROUTE elements.

3.3.2.4.2 Element Name - JUNCTIONING ROUTE.

Class - Alphanumeric

Size - 2 to 8

Edit Criteria - Only one junction is allowed; if more than one, show none.

Description: This multiple occurrence element contains the identification of the route(s) which intersect at the immediately preceding FIX NAME. Routes that junction at a FIX NAME element internal to the NDB must correspond to a valid ROUTE NAME adapted in this AWAY file. Each JUNCTIONING ROUTE element must be followed by at least one blank and one of the following key subsets: Z, A, F, I, or \$.

3.3.2.5 Record Type - Segment Subset Record Elements.

3.3.2.5.1 Element Name - SEGMENT KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character Z and must follow a FIX NAME subset.

Description: The SEGMENT KEY is used to delimit route segments. The occurrence of the SEGMENT KEY Z, following a FIX NAME element, indicates that the route does not exist between that FIX and the next FIX NAME subset. The SEGMENT KEY must be followed by at least one blank and at least one FIX NAME subset with two or more FIX NAME elements.

3.3.2.6 Record Type - Off Route Fix/Airport Subset Record Elements.

3.3.2.6.1 Element Name - OFF ROUTE FIX/AIRPORT KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character A and must follow a FIX NAME subset.

Description: This element indicates that the FIX/AIRPORT NAME element(s) that follow are connected to the route at the previous FIX NAME element. This element must be followed by at least one blank and one or more FIX/AIRPORT NAME elements.

3.3.2.6.2 Element Name - FIX/AIRPORT NAME.

Class - Character

Size - 2 to 12

Edit Criteria - The name must be an adapted identifier in the LOCATION/FIX (LOCPIX) file.

Description: This multiple occurrence element contains the identification of fix(es) or airport(s) that are to be connected to the route at the previous FIX NAME element. These fixes/airports do not form a part of the route, but are an extension of the route-for-route processing. If a fix/airport is not connected, the adapted value for the Maximum Airport to Route Distance (MARD) parameter will be applied to determine flight plan validity.

3.3.2.7 Record Type - End of File Subset Record Elements.

3.3.2.7.1 Element Name - END OF FILE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character \$ in other than column one.

Description: This element indicates the end of the AIRWAY ROUTE file. The character \$ may only be used once and at the end of a file. The END OF FILE KEY must be followed by one or more blanks and should not be connected to more than two FIX NAME elements. Each element must be followed by at least one blank, and the last element must also be followed by one of the following key subsets: J, A, F, I, or Z.

Example Of AWAY File:

```
AWAY
  I J1
  F BFM SJI GCV JFK

  I VIZ
  F IEH SHV J V21 J20 Z
  F GTG DLH
  J J66

  I V123
  F ARLTO 56534 J V1
  F DYR MEM U A 2ME
  F MSL GCV BFM
  F GTG
```

\$

3.3.3 FPSTORE File Data Elements.

3.3.3.1 Element Name - FILE ID.

Class - Alpha

Size - 7

Edit Criteria - Must contain the character string FPSTORE.

Description: This is the first element in the file and occurs only in the first record. It serves to identify the FLIGHT PLAN STORAGE file.

NOTE: (1) The editing and validation checks performed by the DBT will not be as extensive as those performed by the operational system. It is probable that some flight plans that pass the DBT validation checks will be rejected by the system and may then be amended. (2) The FLIGHT PLAN STORAGE file must be adapted in the sequence specified in this file. Optional fields may be omitted.

3.3.3.2 Record Type - Flight Plan Storage File Set Record Elements.

3.3.3.2.1 Element Name - FSDPS IDENTIFICATION KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character I.

Description: This element begins a set of prestored flight plans for the AFSS's associated with the FSDPS identified in the next element.

3.3.3.2.2 Element Name - FSDPS IDENTIFICATION.

Class - Alpha

Size - 3 to 4

Edit Criteria - The FSDPS IDENTIFICATION must be unique within this file.

Description: This file shall be adapted for each FSDPS in the system. The data (flight plans) adapted are for the AFSS's associated with this element and defined in the next subset. This element must be followed by at least one blank and the A key.

3.3.3.3 Record Type - Associated AFSS Identification Subset Record Elements.

3.3.3.3.1 Element Name - ASSOCIATED AFSS ID KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character A.

Description: This element indicates that the next element will be the AFSS IDENTIFICATION associated with the previously identified FSDPS that has prestored flight plans. This element must be followed by at least one blank and the associated AFSS IDENTIFICATION element.

3.3.3.3.2 Element Name - AFSS IDENTIFICATION.

Class - Alpha

Size - 3

Edit Criteria - The AFSS identified must also be adapted in the LOCATION/FIX FILE (LOCFIX) as a Flight Service Station.

Description: The flight plan(s) (FP) adapted before the next A key apply to this AFSS. A maximum of 64 FP's and/or FPL's (see IFPSTOR file) may be adapted for each AFSS. The AFSS IDENTIFICATION must be followed by at least one blank and the Days of Operation subset.

3.3.3.4 Record Type - Days Of Operation Subset Record Elements.

3.3.3.4.1 Element Name - DAYS OF OPERATION KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character T.

Description: This element indicates the beginning of a prestored FP. The DAYS OF OPERATION KEY T must be followed by at least one blank and the DAYS OF OPERATION element. More than one T subset may be adapted for each flight plan.

3.3.3.4.2 Element Name - DAYS OF OPERATION.

Class - Alphanumeric

Size - 7 to 11

Edit Criteria - May contain digits as first one to four characters and must contain the letters X or O, with no imbedded blanks, for the last seven characters. Must not show more than 10 days of operation a month.

Description: This element indicates the weeks (optional 1 to 4 digits, value 1 to 5) and the day(s) of the week (7 letters, X, or O). The DAYS OF OPERATION element must be followed by at least one blank and may be followed by additional DAYS OF OPERATION elements. The combined days of operation (number of X's) must not exceed 10 for each flight plan.

3.3.3.5 Record Type - Flight Plan (FP) Data Subset Record Elements.

3.3.3.5.1 Element Name - FLIGHT DATA KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character D.

Description: This element must be followed by at least one blank and the elements that comprise the FP message.

3.3.3.5.2 Field Type - Message Type Field Field Elements.

3.3.3.5.2.1 Element Name - MESSAGE TYPE.

Class - Alpha

Size - 2

Edit Criteria - Must contain the characters "FP"

Description: This is a required element for messages that are to be sent to an ARTCC. The MESSAGE TYPE element must be followed by at least one blank and the Aircraft Identification Field.

3.3.3.5.3 Field Type - Aircraft Identification Field Field Elements.

3.3.3.5.3.1 Element Name - AIRCRAFT IDENTIFICATION.

Class - Alphanumeric

Size - 2 to 7

Edit Criteria - The first character must be a letter.

Description: This element must be unique for FP's with a corresponding day of operation (DAYS OF OPERATION element) and the same PROPOSED DEPARTURE TIME element. The AIRCRAFT IDENTIFICATION element must be followed by at least one blank and the Type of Flight Plan Field.

3.3.3.5.4 Field Type - Type of Flight Plan Field Field Elements.

3.3.3.5.4.1 Element Name - TYPE OF FLIGHT.

Class - Character

Size - 2 to 4

Edit Criteria - Must contain one of the following character strings: II, VV, DV, I/V, I/DV, DV/I or V/I. Military flights would add M as first character; e.g., MI, MDV, etc.

Description: The characters in this field determine the requirement for some of the other fields. The II=I and VV=V are adaptation conventions. The TYPE OF FLIGHT element must be followed by at least one blank and the Aircraft Type Field.

3.3.3.5.5 Field Type - Aircraft Type Field Field Elements.

3.3.3.5.5.1 Element Name - AIRCRAFT TYPE.

Class - Characters

Size - 2 to 9

Edit Criteria - ((d)a/)aa(a)(a)(/L) Where ()=optional characters, d=digit, a=alphanumeric, L=letter, and /=slant bar character.

Description: The AIRCRAFT TYPE element may include the number of aircraft (a flight), two digits or one digit (2 to 9 a flight), the heavy aircraft indicator H followed by a slant bar "/"; which must be followed by the Type Aircraft (two to four alphanumerics); this may be followed by a slant bar "/" and a letter indicating the navigational equipment capabilities. The element shall not contain any imbedded blanks and must be followed by at least one blank and the Estimated True Airspeed Field.

3.3.3.5.6 Field Type - Estimated True Airspeed Field Field Elements.

3.3.3.5.6.1 Element Name - ESTIMATED TRUE AIRSPEED.

Class - Alphanumeric

Size - 2 to 4

Edit Criteria - Lddd or (d)(d)dd or SC where L must be the letter M and the three digits must not exceed 500. The (d) indicates an optional digit.

Description: The ESTIMATED TRUE AIRSPEED element may be a Mach number, a two- to four-digit speed or the letters SC indicating a classified speed. This element must be followed by at least one blank and the DEPARTURE POINT element.

3.3.3.5.7 Field Type - Departure Point Field Field Elements.

3.3.3.5.7.1 Element Name - DEPARTURE POINT.

Class - Characters

Size - 2 to 12

Edit Criteria - None

Description: The DEPARTURE POINT will normally be a point adapted in the LOCATION/FIX file. However, it could be a Latitude/Longitude or a Fix-Radial-Distance point. This element must be followed by at least one blank and the Proposed Departure Time Field.

3.3.3.5.8 Field Type - Proposed Departure Time Field Field Elements.

3.3.3.5.8.1 Element Name - PROPOSED DEPARTURE TIME.

Class - Alphanumeric

Size - 5

Edit Criteria - The first character must be a P; the next two characters (hours) must not exceed 23 and the last two characters (minutes) must not exceed 59.

Description: This element indicates the time, on the day indicated in the Days of Operation subset, that this FP is scheduled for operation. The PROPOSED DEPARTURE TIME element must be followed by at least one blank and one of the following, depending on the contents of the Type of Flight Plan Field:

a. Contained an I or II in any position — the Altitude Field

b. Did not contain an I or II — the Altitude Field or the Route of Flight Field or the Destination Field.

3.3.3.5.9 Field Type - Altitude Field Field Elements.

3.3.3.5.9.1 Element Name - REQUESTED ALTITUDE OR INITIAL CRUISING ALTITUDE.

Class - Character

Size - 2 to 20

Edit Criteria - May be (d)dd or OTP or OTP/dd(d) or (d)ddBdd(d) or (d)ddFIXdd(d) or ABV/dd(d) where (d)=optional digit, OTP=on top, OTP/=OTP above designated altitude, (d)ddBdd(d) = a block of altitudes, (d)dd FIX dd(d) altitude FIX (2-12 characters) altitude, ABV/dd(d)=Above an altitude.

Description: This optional element is required if the Type of Flight Plan Field contains an I or II and is optional for other flight plans. When adapted this element must be followed by at least one space and the ROUTE OF FLIGHT or the DESTINATION element.

3.3.3.5.10 Field Type - Route of Flight Field Field Elements.

3.3.3.5.10.1 Element Name - ROUTE OF FLIGHT.

Class - Characters

Size - 2 to 576

Edit Criteria - When present, it must start with the character "(" and end with the character ")" It must contain adapted Route or Fix elements when within the NDB boundaries. The route will not be processed at adaptation input time.

Description: This optional field is the requested route of flight between the Departure Point and Destination Fields. When omitted, a direct route (Departure Point to Destination) is requested. The Departure Point may be the first element after the "(" and the Destination may be the last element before the ")" Additional information on route definition may be found in Appendix D, to FAA-E-2684 and used as a guide. Each ROUTE OF FLIGHT element, including the parenthesis, must be followed by at least one blank. The field following the ")" element must be the Destination Field.

3.3.3.5.11 Field Type - Destination Field Field Elements.

3.3.3.5.11.1 Element Name - DESTINATION.

Class - Characters

Size - 2 to 12

Edit Criteria - Should be adapted in the LOCATION/FIX file.

Description: This element will normally be an adapted airport but can be any fix including Lat/Long or a Fix-Radial-Distance. If the destination is not in the DESTINATION element it must be followed by at least one blank and the Estimated Time Enroute Field.

3.3.3.5.12 Field Type - Estimated Time Enroute Field Field Elements.

3.3.3.5.12.1 Element Name - ESTIMATED TIME ENROUTE.

Class - Characters

Size - 3 to 5

Edit Criteria - Must be in the form (d)d(+)dd where parentheses indicate optional characters and d=digit. The last two digits (minutes) shall not exceed 59.

Description: The ESTIMATED TIME ENROUTE element must be followed by at least one blank and one of the following fields: Remarks Field, Beacon Code Field, or the Fuel on Board Field.

3.3.3.5.13 Field Type - Remarks Field Elements.

3.3.3.5.13.1 Element Name - REMARKS.

Class - Character

Size - 2 to 80

Edit Criteria - When present, it must start with the character "(" and end with the character ")."

Description: This optional field contains remarks that are associated with the FP. Each element in the Remarks Field must be followed by at least one blank, this includes the parentheses (), and the Beacon Code Field, or the Fuel on Board Field.

3.3.3.5.14 Field Type - Beacon Code Field Elements.

3.3.3.5.14.1 Element Name - BEACON CODE.

Class - Digits

Size - 4

Edit Criteria - When adapted, must contain four digits, each within a value range of zero to seven.

Description: This optional field contains a requested airborne transponder code assignment. It must be followed by at least one blank and the Fuel on Board Field.

3.3.3.5.15 File Type - Fuel on Board File Elements.

3.3.3.5.15.1 Element Name - FUEL ON BOARD.

Class - Characters

Size - 4 to 5

Edit Criteria - Must be in the form (d)d+dd where parentheses indicate an optional character and d=digit. The last two digits (minutes) must not exceed 59.

Description: The FUEL ON BOARD element must be followed by at least one blank and the Number of Persons on Board Field.

3.3.3.5.16 File Type - Number of Persons on Board Field File Elements.

3.3.3.5.16.1 Element Name - NUMBER OF PERSONS ON BOARD.

Class - Digits

Size - 2 to 3

Edit Criteria - Must contain a value of 01 to 999.

Description: This element is the number of people on the flight. A value from one to nine must have a zero as the first digit; i.e., 01, 02, for 1 or 2. The NUMBER OF PERSONS ON BOARD element must be followed by at least one blank and the Alternate Airport Field or the Pilot Data Field.

3.3.3.5.17 Field Type - Alternate Airport Field Elements.

3.3.3.5.17.1 Element Name - ALTERNATE AIRPORT.

Class - Alphanumerics

Size - 3 to 7

Edit Criteria - None

Description: These optional elements are Alternate Airports that the flight may proceed to in sequence. They are limited to seven alphanumerics because they are airports as opposed to fixes. The ALTERNATE AIRPORT element should be adapted in the LOCATION/FIX file, unless they are not in the United States. These elements must be followed by at least one blank and the Pilot Data Field.

3.3.3.5.18 Field Type - Pilot Data Field Elements.

3.3.3.5.18.1 Element Name - PILOT DATA.

Class - Characters

Size - 5 to 54

Edit Criteria - Must start with the character "(" and end with the character ")" with three or more characters in between.

Description: This field should include the pilots name, address, telephone number and home base of the aircraft. It must include at least three characters between the parentheses. The parentheses and all other elements in this field must be followed by at least one blank and the Color of Aircraft Field.

3.3.3.5.19 Field Type - Color of Aircraft Field Elements.

3.3.3.5.19.1 Element Name - COLOR OF AIRCRAFT

Class - Character

Size - 3 to 15

Edit Criteria - None, but one element with three or more characters is required.

Description: If two or more colors are input they must be separated by a slant bar "/" and not have imbedded blanks. The COLOR OF AIRCRAFT must be followed by at least one blank and may be followed by the Closure Points Field or any one of the valid keys I, A, T, or \$.

3.3.3.5.20 Field Type - Closure Point Field Elements.

3.3.3.5.20.1 Element Name - ADDRESS/CLOSURE POINT.

Class - Alphanumeric

Size - 2 to 5

Edit Criteria - If the TYPE OF FLIGHT element:

a. Contains one or more I characters; the first element must be an ARTCC Teletype address adapted in the AIR TRAFFIC CONTROL ADDRESS (ATCA) file.

b. Contains one or more V and/or M characters; one of the adapted elements must be the identification of a Flight Service Station adapted in the LOCATION/FIX file.

Description: The ADDRESS/CLOSURE POINT Element contains the address(es) where the appropriate FP message is to be sent. This element must be followed by at least one blank and one of the keys I, A, T, or \$.

NOTE: The use of these element(s) is design dependent. It is possible that the ARTCC address will be used to automatically address and process instrument (IFR) flight plans, when they are retrieved from storage.

3.3.3.6 Record Type - Begin Free Format Subset Record Elements.

3.3.3.6.1 Element Name - BEGIN FREE FORMAT KEY.

Class - Character

Size - 1

Edit Criteria - Must be the character (.

Description: This element indicates the beginning of free format data in the Route of Flight, Remarks, and Pilot Data fields. The "(" key must be followed by at least one blank and data.

3.3.3.7 Record Type - End Free Format Subset Record Elements.

3.3.3.7.1 Element Name - END FREE FORMAT KEY.

Class - Character

Size - 1

Edit Criteria - Must be the character).

Description: This element indicates the end of free format data. It must follow the BEGIN FREE FORMAT KEY "(" and the data following it. The END FREE FORMAT KEY must be preceded and followed by at least one blank.

3.3.3.8 Record Type - End of File Subset Record Elements.

3.3.3.8.1 Element Name - END OF FILE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character \$ in other than column one.

Description: This element indicates the end of the FLIGHT PLAN STORAGE file. The character \$ may only be used once and at the end of a file. The END OF FILE KEY must be followed by at least one blank.

Example Of FPSTORE File Entry:

FPSTORE
I ACY
A MIV
T 13XOXOXOO 24OXOXOXO

D GI FF INO FP N8817Y II PA30/A 160 ACY P0200 180 (THS ZZV J19) IND 1+30 (TRANSPONDER CODE 3385 INOPERATIVE) 2+30 04 HUF (J. Doe 9 E. Hemlock Dr. Linwood, NJ 08221) Blue/White ZCI

\$ 'END OF FPSTORE FILE

3.3.4 IFPSTOR File Data Elements.

3.3.4.1 Element Name - FILE ID.

Class - Alpha

Size - 7

Edit Criteria - When adapted, must contain the character string IFPSTOR.

Description: This is the first element in the file and occurs only in the first record. It serves to identify the INTERNATIONAL FLIGHT PLAN STORAGE file. The IFPSTOR file is used to store international flight plans that operate on a schedule (at least once a month) in the standard ICAO format, for Service B transmission. This element must be followed by at least one blank and one or more I key sets. This file is not required if no ICAO flight plans (FPL) are stored in the FSAS. However, if any AFSS stores ICAO proposed flight plans, then this file must be adapted for the FSDPS.

3.3.4.2 Record Type - FSDPS Identification Set Record Elements.

3.3.4.2.1 Element Name - FSDPS IDENTIFICATION KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character I.

Description: An I key wet must be adapted for each FSDPS that has an associated AFSS that processes stored FPL's. This element must be followed by at least one blank and the FSDPS IDENTIFICATION element.

3.3.4.2.2 Element Name - FSDPS IDENTIFICATION.

Class - Alpha

Size - 3 to 4

Edit Criteria - Must be unique within this file.

Description: Every FSDPS that has an associated AFSS that utilizes stored FPL's must have an FSDPS Identification set adapted. This element must be followed by at least one blank and the A key.

3.3.4.3 Record Type - AFSS Identification Subset Record Elements.

3.3.4.3.1 Element Name - AFSS IDENTIFICATION KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character A.

Description: Each AFSS Identification subset must be followed by at least one blank and an AFSS IDENTIFICATION element.

3.3.4.3.2 Element Name - AFSS IDENTIFICATION.

Class - Alpha

Size - 3

Edit Criteria - Must contain the identification of a location adapted in the LOCATION/FIX file (LOCFIX) as a Flight Service Station.

Description: The FPL adapted before the next A key apply to this AFSS. A maximum of 64 FPL's and/or FP's (see FPSTOR file) may be adapted for each AFSS. The AFSS IDENTIFICATION element must be followed by at least one blank and a Days of Operation subset.

3.3.4.4 Record Type - Days of Operation Subset Record Elements.

3.3.4.4.1 Element Name - DAYS OF OPERATION KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character T.

Description: This element indicates the beginning of a prestored FPL. The T key must be followed by at least one blank and a DAYS OF OPERATION element. More than one T key subset may be adapted for each FPL.

3.3.4.4.2 Element Name - DAYS OF OPERATION.

Class - Alphanumeric

Size - 7 to 11

Edit Criteria - May contain digits as the first four characters and must contain the letters X or O for the last seven characters with no imbedded blanks. The T subset for an FPL must not show more than 10 days of operation a month.

Description: This multioccurrence element indicates the weeks (optional one to four digits, value 1 to 5) and the day(s) of the week (seven letters, X or O). The digits specify the week(s) for each month and the X's specify the day(s) of the week. This procedure does not provide for sequences such as every other week. The DAYS OF OPERATION element must be followed by at least one blank and may be followed by another DAYS OF OPERATION element (maximum of four) or the Flight Plan Data subset.

3.3.4.5 Record Type - ICAO Flight Plan (FPL) Data Subset Record Elements.

3.3.4.5.1 Element Name - FLIGHT PLAN DATA KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character D.

Description: This element must be followed by at least one blank and the elements that comprise the FPL message.

NOTE: The reference to ICAO items (ITEM 1) refers to the items specified in FAA, Flight Service Handbook 7110.10E, Appendix E. This dictionary does not include the symbols and data checks specified in the Appendix. The incorporation of the symbols is design dependent; therefore, this file may require modification to satisfy operational needs.

3.3.4.5.2 Item Type - Description/Message Type (ITEM 3) Record Elements.

3.3.4.5.2.1 Element Name - MESSAGE TYPE.

Class - Alpha

Size - 3

Edit Criteria - Must contain the characters FPL with no imbedded blanks.

Description: This element identifies the beginning of the FPL that is to be transmitted. The MESSAGE TYPE element must be followed by at least one blank, and the Aircraft Identification and secondary surveillance radar (SSR) Data item.

3.3.4.5.3 Item Type - Aircraft Identification and SSR Data (ITEM 7) Record Elements.

3.3.4.5.3.1 Element Name - AIRCRAFT IDENTIFICATION.

Class - Alphanumeric

Size - 2 to 7

Edit Criteria - None

Description: This element contains the radiotelephone call sign for the aircraft. The AIRCRAFT IDENTIFICATION element may be followed by the SSR DATA element, with no imbedded blanks, or it must be followed by at least one blank, a dash, and the Flight Rules and Type of Flight item.

3.3.4.5.3.2 Element Name - SSR DATA.

Class - Characters

Size - 6

Edit Criteria - When adapted, must contain an oblique stroke (/), one letter and four digits (/Ldddd) with no imbedded blanks.

Description: The oblique stroke separates this element from the AIRCRAFT IDENTIFICATION, the letter is the SSR Mode, and the digits are the assigned code. The SSR DATA element is optional, but when present must be followed by at least one blank and the Flight Rules and Type of Flight item.

3.3.4.5.4 Item Type - Flight Rules and Type of Flight (ITEM 8) Record Elements.

3.3.4.5.4.1 Element Name - FLIGHT RULES AND TYPE OF FLIGHT.

Class - Alpha

Size - 2

Edit Criteria - First letter must be I, V, Y, or Z and the second letter must be I, V, S, N, G, M, or X.

Description: If the letters Y or Z are used, an entry is also required in Item 15. This element must be followed by at least one blank, and the Type of Aircraft and Wake Turbulence Category item.

3.3.4.5.5 Item Type - Type of Aircraft and Wake Turbulence Category (ITEM 9) Record Elements.

3.3.4.5.5.1 Element Name - TYPE OF AIRCRAFT.

Class - Characters

Size - 2 to 8

Edit Criteria - Must be (d)(d)La(a)(a)/L where (d) = optional digit, L = letter, a = alphanumeric, (a) = optional alphanumeric and / = oblique stroke. The last letter must be H, M, or L.

Description: The first one or two digits are the number of aircraft, if more than one; the next four alphanumerics are the aircraft type (the first alpha must be a letter); and the oblique stroke (/) letter defines the Wake Turbulence Category. If the letters ZZZZ are used, an entry is required in item 18 preceded by TYP/. The TYPE OF AIRCRAFT element must be followed by at least one blank, a dash and the Equipment item.

3.3.4.5.6 Item Type - Equipment (ITEM 10) Record Elements.

3.3.4.5.6.1 Element Name - RADIO AND NAV-AID.

Class - Alpha

Size - 1

Edit Criteria - May contain any letter(s) except B, G, J, K, or Q.

Description: This element identifies the Radio Communications, Navigation and Approach Aid equipment on the aircraft. It must be followed by at least one blank and the SSR EQUIPMENT element, or the Airdrome of Departure/FIR Boundaries and Times item.

3.3.4.5.6.2 Element Name - SSR EQUIPMENT.

Class - Character

Size - 2

Edit Criteria - When adapted, must contain the character N, 0, 2, 4 or C.

Description: This optional element describes the serviceable SSR equipment carried. The SSR EQUIPMENT element must be followed by at least one blank, and the Airdrome of Departure/FIR Boundaries and Times items.

3.3.4.5.7 Item Type - Airdrome of Departure/FIR Boundaries and Time (ITEM 13) Record Elements.

3.3.4.5.7.1 Element Name - AIRDROME OF DEPARTURE AND TIME.

Class - Alphanumeric

Size - 8

Edit Criteria - The first four letters must be the ICAO identifier for a location adapted in the LOCFIX file; the next two digits must not exceed 23 (hours), and the last two digits must not exceed 59 (minutes).

Description: This element identifies the Departure Airdrome (point) and the proposed Departure Time. The AIRDROME OF DEPARTURE AND TIME element must be followed by at least one blank and the FIR BOUNDARY or CRUISING SPEED element.

3.3.4.5.7.2 Element Name - FIR BOUNDARY.

Class - Alphanumeric

Size - 8

Edit Criteria - Must contain four letters, followed by two digits (not to exceed 23) and two additional digits (not to exceed 59).

Description: This optional multioccurrence element, identifies ICAO Flight Information Region (FIR) boundary(ies) that the proposed flight will penetrate at the estimated time(s) indicated. Each FIR BOUNDARY element must be followed by at least one blank and the last element must also be followed by Route item.

3.3.4.5.8 Item Type - Route (ITEM 15) Record Elements.

3.3.4.5.8.1 Element Name - CRUISING SPEED.

Class - Alphanumeric

Size - 4

Edit Criteria - Must contain four digits or the letter M and three digits.

Description: This is the estimated true airspeed or Mach number for the first portion of the flight. This element is followed by the CRUISING LEVEL element with no imbedded blanks.

3.3.4.5.8.2 Element Name - CRUISING LEVEL.

Class - Alphanumeric

Size - 4 to 5

Edit Criteria - The first character must be the letter F, S, A, or M. The remaining characters are digits.

Description: The letter separates the Level from the Speed. The letters are used as follows: F = Flight Level, S = Standard Metric Level in tens of meters, A = Altitude in hundreds of feet and M = Altitude in tens of meters. The CRUISING LEVEL element must be followed by at least one blank and the ROUTE element(s).

3.3.4.5.8.3 Element Name - ROUTE.

Class - Characters

Size - 2 to 28

Edit Criteria - The first element must be preceded by a left parentheses "(" and the last element must be followed by a right parentheses ")."

Description: The multioccurrence ROUTE elements include changes in Speed, Level or Flight Rules. The first element will be the Departure Airdrome or the letters DCT to indicate a direct route to the next element. Subsequent elements shall be in the form of ATS (published) Routes (two to seven characters) or Significant Points (Fixes) (two to five characters), Degrees only (seven characters), Bearing and Distance from a Nav-Aid (eight to nine characters). A change in Speed or Level may be added to a Significant Point by following the element with an oblique stroke and the data as defined for the two previous elements (Speed and Level) with no imbedded blanks. Unless otherwise stated, each ROUTE element must be followed by at least one blank.

3.3.4.5.8.4 Element Name - CHANGE OF FLIGHT RULES ROUTE ELEMENT.

Class - Alpha

Size - 3

Edit Criteria - When adapted, must contain the character string VFR or IFR.

Description: This optional element is valid and required if the letter Y or Z is adapted in Item 8. It identifies a change in flight rules after the previous Significant Point. When adapted, this element must be followed by at least one blank.

3.3.4.5.8.5 Element Name - CRUISING CLIMB.

Class - Characters

Size - 19 to 28

Edit Criteria - When adapted, must start with the character string C/ followed by a Significant Point on the route.

Description: This optional element identifies a point on the route where a change to a higher altitude is planned. The point may be on an adapted route or part of a direct route segment. The Significant Point is followed by an oblique stroke, the climb speed, and the two altitudes as defined under previous elements, or a level above which cruise climb is planned, followed by the letters PLUS. The CRUISE CLIMB element must be followed by at least one blank.

The Last Route (Item 15) element must also be followed by a right parentheses, at least one blank, and the Airdrome of Destination and Alternate Airdrome(s) item.

3.3.4.5.9 Item Type - Airdrome of Destination and Alternate Airdrome (ITEM 17)
Record Elements.

3.3.4.5.9.1 Element Name - DESTINATION/TIME.

Class - Alphanumeric

Size - 8

Edit Criteria - Must contain four letters and four digits (hours - 00 to 23 and minutes - 00 to 59).

Description: This is the Destination Airdrome and the estimated time of arrival if the flight departs at the expected time. If the letters ZZZZ are used, the name of the Destination Airdrome must be included in Item 18, preceded by DEST/. The DESTINATION/TIME element must be followed by at least one blank and may be followed by the ALTERNATE AIRDROME element or the OTHER INFORMATION element.

3.3.4.5.9.2 Element Name - ALTERNATE AIRDROME.

Class - Alpha

Size - 4

Edit Criteria - May not contain more than two elements.

Description: The optional ICAO four letter indicator(s) of not more than two alternate airdromes, or the letters ZZZZ if no location identifier has been assigned. If the letters ZZZZ are used, the names(s) of the Alternate Airdrome(s) must be included in Item 18, preceded by ALTN/. Each ALTERNATE AIRDROME element must be followed by at least one blank. The last element must also be followed by two CARRIAGE RETURNS, one LINE FEED, a dash, and the OTHER INFORMATION element.

3.3.4.5.10 Item Type - Other Information (ITEM 18) Record Elements.

3.3.4.5.10.1 Element Name - OTHER INFORMATION.

Class - Character

Size - 1 or more

Edit Criteria - Must contain at least the character 0 and must be enclosed in parentheses.

Description: This element includes additional information for other elements. The presence of special characters in some elements, requires an entry in this element. The DBT will not validate these entries. The OTHER INFORMATION elements must be preceded by a left parentheses and at least one blank, must be followed by at least one blank, and the last element must also be followed by a right parenthesis.

NOTE: This is the end of the ICAO Flight Plan data that is to be transmitted.

3.3.4.5.11 Item Type - Service B Message Field Record Elements.

NOTE: This does not include an input capability for program supplied (PS) data, only the element name is shown. The PS elements will not be in the IFPSTOR File.

3.3.4.5.11.1 Element Name - SERVICE B MESSAGE (PS).

3.3.4.5.11.2 Element Name - PRECEDENCE (PS).

3.3.4.5.11.3 Element Name - ADDRESSEE.

Class - Alpha

Size - 6

Edit Criteria - Must contain one or more six letter element(s).

Description: This element provides the Addressee(s) Indicator(s) for the FPL message in ICAO format. The ADDRESSEE element must be followed by at least one blank and the SPECIFIC ADDRESS element or one of the following key entries: I, A, T, or \$.

3.3.4.5.11.4 Element Name - FILING TIME (PS).

3.3.4.5.11.5 Element Name - ORIGINATOR (PS).

3.3.4.5.11.6 Element Name - SPECIFIC ADDRESS.

Class - Alpha

Size - 0 to 69

Edit Criteria - None

Description: This optional element provides the Specific Identification of Addressee(s). It may include non-ICAO addressees for ARTCC or FSS's. When present, it must be followed by at least one blank and one of the following key entries: I, A, T, or \$.

3.3.4.6 Record Type - End of File Subset Record Elements.

3.3.4.6.1 Element Name - END OF FILE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character \$, in other than column one.

Description: This element indicates the end of the ICAO FLIGHT PLAN STORAGE FILE. The character \$ may only be used once and at the end of a file. The END OF FILE KEY must be followed by at least one blank.

Example Of IFPSTORE File:

```
IFPSTOR
I ACY
A MIV
T 13400X000 20XOX00
D ( FPL SY402/A5120 IS S210/M
S/4 EHRD0940 EBBB0950
LFBB1115 LECM1205 LPPT1331 0350F292 920
EHRD A6 UA6 DEN/0440F290 UA5 RBT UB19 DXM
URIO RB DCT 41N0052 DCT CCV/0340F100 UR24
R24 ) LPPT1411 LEMD ( REG/CPALD )
EHHMZQ EBBZQ LFFFZQ LFBBZQ LECMZQ LPPTZQ LPPTZT
$
```

3.3.5 LOCFIX File Data Elements.

3.3.5.1 Element Name - FILE ID.

Class - Alpha

Size - 6

Edit Criteria - Must contain the character string LOCFIX.

Description: This is the first element in the file and occurs only in the first record. It serves to identify the Location/Fix file. This element must be followed by at least one blank and one or more Location/Fix Sets.

3.3.5.2 Record Type - Location/Fix Set Record Elements.

3.3.5.2.1 Element Name - LOCATION/FIX IDENTIFIER KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character I.

Description: This element begins a set of Location/Fix data and also serves to terminate any preceding set of LOCFIX data. The LOCATION/FIX IDENTIFIER KEY must be followed by at least one blank and the IDENTIFIER element.

3.3.5.2.2 Element Name - IDENTIFIER.

Class - Character

Size - 2 to 12

Edit Criteria - Must be unique within the Location/Fix file.

Description: The identifier is a unique designator for a particular Navaid (Fix or Location), Airport, Flight Service Station, or any location required for FSAS processing. An identifier may appear to be a Name (Official identifier, i.e., DCA) Fix/Radial/Distance (FRD) (i.e., DCA120133) or Latitude/Longitude (2830N/10232W or 2830/10232); however, when it is adapted in this file, it will be processed the same as other locations. The Latitude/Longitude, adapted with the L key character, shall be used for processing. This element must be followed by at least one blank and the Location subset.

3.3.5.3 Record Type - Location Subset Record Elements.

3.3.5.3.1 Element Name - LOCATION KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character C.

Description: This subset includes the optional CITY NAME and required STATE NAME for the previous element. The LOCATION KEY must be followed by at least one blank and at least one element.

3.3.5.3.2 Element Name - CITY NAME.

Class - Character

Size - 2 to 40

Edit Criteria - When This optional element is adapted, it must not contain any blank characters and must be composed of alphanumerics and/or the character hyphen (-).

Description: This optional element is the name of a city that is associated with the IDENTIFIER element. If the name is composed of two or more words, they should be separated by a hyphen (-); i.e., NORTH-FORK; no other characters should be used. This element is followed by at least one blank and the STATE NAME element.

3.3.5.3.3 Element Name - STATE NAME.

Class - Alpha

Size - 2

Edit Criteria - Must be a valid state identifier or the letters IT.

Description: This element identifies the state that the IDENTIFIER element is located in. The STATE NAME is required for all locations including five digit computer-only fixes. The two letter state identifiers are listed in the Adaptation Data Logical Characteristics Document. The letters IT are used as the STATE NAME for Locations/Fixes that are outside the United States. This element must be followed by at least one blank and TYPE subset, PROPER NAME subset or LATITUDE/LONGITUDE subset.

3.3.5.4 Record Type - Type of Facility Subset Record Elements.

3.3.5.4.1 Element Name - TYPE KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character T.

Description: This optional subset should not be adapted when the IDENTIFIER element is a five-digit computer-only fix. The TYPE KEY must be followed by at least one blank and the TYPE element.

NOTE: This key character may appear more than once within an I set. In cases where more than one facility share an identifier and are located at the same geographic point, the T key will be followed by two or more units of data identifying each type. The subsequent L key subset will indicate the Latitude/Longitude for all.

If the geographic points or proper names are different, two or more T key subsets indicating the Latitude/Longitude or N key subsets, indicating the different Proper Names or both are required. This subset is not required for locations that are not one of the specified types.

3.3.5.4.2 Element Name - TYPE.

Class - Alpha

Size - 2

Edit Criteria - When adapted, must contain one or more of the following character strings: CA, FS, FX, or MA.

Description: These optional elements identify the type of facility and/or location specified in the IDENTIFIER element. This element should not be adapted for five-digit computer-only fixes. The TYPE element must be followed by at least one blank and the PROPER NAME or LATITUDE/LONGITUDE subset.

3.3.5.5 Record Type - Proper Name Subset Record Elements.

3.3.5.5.1 Element Name - PROPER NAME KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character N.

Description: This optional subset should not be adapted when it is the same as the CITY NAME element in the Location (C key) subset or if the IDENTIFIER element is five digits. The PROPER NAME KEY must be followed by at least one blank and the PROPER NAME element.

NOTE: This subset applies to the facilities identified in the Type of Facilities subset (T key) it follows, and may be repeated after each T key subset.

3.3.5.5.2 Element Name - PROPER NAME.

Class - Character

Size - 2 to 40

Edit Criteria - When adapted, each element must not contain any blank characters and must be composed of alphanumerics. It may include the character hyphen (-).

Description: This multioccurrence element provides the reference name(s) for the IDENTIFIER element. More than one element may be required if the Type of Facility subset (T key) contains more than one element. Each element must be followed by at least one blank. The last element is also followed by the LATITUDE/LONGITUDE subset.

3.3.5.6 Record Type - Latitude/Longitude Subset Record Elements.

3.3.5.6.1 Element Name - LATITUDE/LONGITUDE KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character L.

Description: This subset provides the geographic location for the facilities identified in this Location/Fix Set (I key). The LATITUDE/LONGITUDE KEY must be followed by at least one blank and two more elements.

NOTE: This subset must be adapted for each Type of Facility subset (T key). If it follows more than one T key subset, it applies to all T key subsets after the last L key subset. If no previous L key has been adapted in the set, it applies to all T key subsets.

3.3.5.6.2 Element Name - LATITUDE.

Class - Alphanumeric

Size - 6 to 7

Edit Criteria - Must contain six digits and may be followed by an optional N or S, with no imbedded blanks. The first two digits (degrees) must not exceed 90. The second two digits (minutes) and the last two digits (seconds) must not exceed 59. If the last two digits (seconds) are missing, add two zeros.

Description: If the optional letter is adapted, the next element must end in the letter E or W. This element must be followed by at least one blank and another element.

3.3.5.6.3 Element Name - LONGITUDE.

Class - Alphanumeric

Size - 7 to 8

Edit Criteria - Must contain seven digits and may be followed by an optional E or W, with no imbedded blanks. The first three digits (degrees) must not exceed 180. The remaining digits are minutes and seconds (00 to 59). If the last two digits (seconds) are missing, add two zeros.

Description: If the optional letter is not adapted in the previous element it must not be adapted in this element. When no letters are adapted, North (N) latitude and West (W) longitude are implied. This element must be followed by at least one blank and the key A, F, T, I, or \$.

3.3.5.7 Record Type - Associated FSS Subset Record Elements.

3.3.5.7.1 Element Name - ASSOCIATED FSS KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character F.

Description: This optional subset must be adapted when the Type of Facility subset contains a CA, MA, or FX character string. This element must be followed by at least one blank and another element.

3.3.5.7.2 Element Name - ASSOCIATED FSS.

Class - Alpha

Size - 3

Edit Criteria - Must be adapted as a Flight Service Station in the LOCFIX file.

Description: This is the identification of the FSS facility that processes or provides Flight Service functions for the location identified in the I key subset. This element must be followed by at least one blank and the I or \$ key subsets.

3.3.5.8 Record Type - End of File Subset Record Elements.

3.3.5.8.1 Element Name - END OF FILE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character \$.

Description: This element indicates the end of the LOCATION/FIX file. The character \$ may only be used once and at the end of a file. The END OF FILE KEY must be followed by at least one blank.

Example Of LOCFIX File:

LOCFIX

```
I IND
  C ( INDIANAPOLIS ) IN
  T FS
  L 394852 0862203
  T CA FX
  L 394630 0861501
  F IND
I BRW
  C ( BARROW ) AK
  T CA
  N ( WILEY POST WILL ROGERS MEMORIAL )
  L 711800 1564700
  T FS
  L 71200 1563800
  F BRW
I AML
  C ( WASHINGTON ) DC
  T FX
  L 711800N 1564700W
  N ( ARMEL )
  F IAD
I 21522
  C AK
  L 411320 1054293
I LAR
  C ( LARAMIE ) WY
  T CA
  N ( GENERA BREES FIELD )
  T FS FX
  L 311230 0723193
  F LAR
  $
```

3.3.6 POSCAP File Data Elements.

3.3.6.1 Element Name - FILE ID.

Class - Alpha

Size - 6

Edit Criteria - Must contain the character string POSCAP.

Description: This is the first element in the file and occurs only in the first record. It serves to identify the Position Capabilities file. The FILE ID element must be followed by at least one blank and the FSDPS IDENTIFIER KEY.

3.3.6.2 Record Type - FSDPS Position Capabilities Set Record Elements.

3.3.6.2.1 Element Name - FSDPS IDENTIFIER KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character I.

Description: This element begins a set of FSDPS Position Capabilities and also serves to terminate any preceding set. This element must be followed by at least one blank and another element. This set must be adapted for each FSDPS in the system.

3.3.6.2.2 Element Name - FSDPS IDENTIFIER.

Class - Alphanumeric

Size - 3 to 4

Edit Criteria - Must be a valid Flight Service Data Processing System (FSDPS) identifier.

Description: This element identifies the FSDPS that supports the Associated Automated Flight Service Stations (AFSS), identified in subsequent subsets. The FSDPS IDENTIFIER must be followed by at least one blank and the Operational Position subset.

3.3.6.3 Record Type - Operational Position Subset Record Elements.

3.3.6.3.1 Element Name - OPERATIONAL POSITION KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character O.

Description: This subset identifies the positions and functions and/or capabilities that shall be used as default values for all AFSS's associated with this FSDPS (I key set). This element must be followed by at least one blank and the POSITION element.

NOTE: For additional information on position, functions, and capabilities see the Adaptation Data Logical Characteristics Document.

3.3.6.3.2 Element Name - POSITION.

Class - Alpha

Size - 2

Edit Criteria - Must contain one of the following character strings: SS, PP, II, DD, EE, or TT.

Description: This subset must be repeated for each of the six positions; i.e., SS, PP, etc. The POSITION element must be followed by at least one space and the FUNCTION/CAPABILITIES element(s). The characters and position names are as follows:

- SS - SUPERVISOR POSITION (SST OR FST)
- PP - PREFLIGHT POSITION
- II - INFLIGHT POSITION
- DD - DATA COORDINATOR POSITION
- EE - EFAS POSITION
- TT - TWEB POSITION

3.3.6.3.3 Element Name - FUNCTION/CAPABILITY.

Class - Digits

Size - 2 to 3

Edit Criteria - None

Description: This multioccurrence element describes the Functions (two digits) and/or Capabilities (three digits) that are assigned to the POSITION element. Each type of Operational Position may have multiple functions adapted and/or selective capabilities. Table 1 lists the functions and related capabilities. Each element must be followed by at least one blank, and the last element must also be followed by the AFSS IDENTIFIER/MNEMONIC KEY element.

3.3.6.4 Record Type - AFSS Identifier/Mnemonic Subset Record Elements.

3.3.6.4.1 Element Name - AFSS IDENTIFIER/MNEMONIC KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character A.

Description: This subset must be adapted for each AFSS associated with the FSDPS (I key subset). This element must be followed by at least one blank and another element.

NOTE: There may be multiple A key subsets following an I key, and each A key subset may be followed by multiple T and C key subsets.

3.3.6.4.2 Element Name - AFSS IDENTIFIER.

Class - Alpha

Size - 3

Edit Criteria - Must be adapted as a Flight Service Station in the LOCFIX file.

TABLE 1.

<u>Function</u>	<u>Capability</u>
10 BRIEFING	101 BRIEFING SUBMENU 102 SEQUENCE PRESENTATION 103 SERVICE A REQUEST/REPLY 104 PIREPS 105 LOG & TALLY 106 LOGGING FORMAT MENU
20 FLIGHT PLAN	201 FP SUBMENU 202 FP STORAGE 203 PROPOSED LIST 204 INBOUND LIST 205 FP SUBFUNCTIONS 206 FP FILING 207 FP CANCEL OR CLOSE 208 SUSPENSE LIST 209 FP DISPLAY 210 PRINT S & I LISTS
30 REVIEW PIREPS	301 DISPLAY PIREPS
40 EDIT & REVIEW COMMUNICATIONS	401 EDIT & REVIEW COMMUNICATIONS SUBMENU 402 SERVICE A MESSAGE PROCESSING 403 REVIEW SERVICE B 404 SERVICE B MESSAGE PROCESSING 405 ENTER MESSAGE 406 SUSPENSE LIST
50 MESSAGE ENTRY & TRANSMISSION	501 MESSAGE ENTRY & SUBMENU 502 SERVICE A TRANSMISSION 503 SERVICE B TRANSMISSION
60 ALERTS	601 DISPLAY ALERT 602 MANUAL ALERT 603 AUTOMATIC ALERT
70 FACILITY SUPERVISOR	701 FST SUBMENU 702 SYSTEM CONFIGURATION & STATUS DISPLAY 703 CHANGE FACILITY PARAMETERS 704 AUXILIARY FUNCTIONS
80 SYSTEM SUPERVISOR	801 SST SUBMENU 802 DEFINE & MODIFY SEQUENCE DEFINITIONS 803 DESIGNATE AUTOMATIC ALERT MESSAGES 804 CHANGE DYNAMIC PARAMETERS 805 DEFINE OR MODIFY SYSTEM CONFIGURATION 806 SEND SUPERVISORY MESSAGES

Description: This is an Automated Flight Service Station (AFSS) associated with the FSDPS identified in the I key subset. This element must be followed by at least one blank and the AFSS MNEMONIC element.

3.3.6.4.3 Element Name - AFSS MNEMONIC.

Class - Alpha

Size - 2

Edit Criteria - Must be unique within the FSDPS.

Description: This element identifies the AFSS for communications within the FSDPS. Adaptation conventions require the input of two characters to provide the one required by the specification; i.e., AA=A, BB=B, etc. This element must be followed by at least one blank and one or more Terminal Address subsets.

3.3.6.5 Record Type - Terminal Address Subset Record Elements.

3.3.6.5.1 Element Name - TERMINAL ADDRESS KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character T.

Description: One or more TERMINAL ADDRESS KEYS must follow each AFSS Identification/Mnemonic subset. This element, when used with the A key subset, provides an address for a terminal within the FSDPS. This element must be followed by at least one blank and the TERMINAL ADDRESS element.

3.3.6.5.2 Element Name - TERMINAL ADDRESS.

Class - Character

Size - 3

Edit Criteria - Must contain the character string X-X.

Description: This is a design dependent element. The final content will support the contractors addressing scheme for the terminal. Therefore, the class, size, and edit criteria are examples only. This element must be followed by at least one blank and the TERMINAL MNEMONIC element.

3.3.6.5.3 Element Name - TERMINAL MNEMONIC.

Class - Alphanumeric

Size - 2 to 3

Edit Criteria - The first character must be S, P, I, D, E, or T; the second and third characters are digits; and the element must be unique within the AFSS.

Description: The TERMINAL MNEMONIC, An(n), where A is a position identified in the O key subset and n(n) is a terminal number (e.g., P2, P01, D12, etc.) used to address messages to a specific terminal. Each terminal, within the AFSS, should be included in the string of T key subsets. This element must be followed by at least one blank and one of the following subset keys: C, T, A, I, or \$.

3.3.6.6 Record Type - Capabilities Subset Record Elements.

3.3.6.6.1 Element Name - CAPABILITIES KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character C.

Description: This optional element indicates that additional capabilities are assigned to the Terminal identified in the previous subset. This element must be followed by at least one blank and one or more elements.

3.3.6.6.2 Element Name - CAPABILITIES.

Class - Digits

Size - 2 to 3

Edit Criteria - Must be a Function end/or Capability identified in table 1.

Description: These multioccurrence elements are two-digit Functions or three-digit Capabilities that will be added to the capabilities normally associated with a position. One or more elements must be adapted in a C key subset. Each element must be followed by at least one blank. The last element must also be followed by one of the following subset keys: T, A, I, or \$.

3.3.6.7 Record Type - End of File Subset Record Elements.

3.3.6.7.1 Element Name - END OF FILE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character \$, in other than column one.

Description: This element indicates the end of the POSITION CAPABILITIES FILE. The character \$ may only be used once and at the end of a file. The END OF FILE KEY must be followed by at least one blank.

Example Of POSCAP File:

POSCAP

```
I  XXX
   O  SS  10  20  30  40  50  60  70
   O  PP  10  20  30  50  60
   O  II  10  20  30  50  60
   O  DD  10  20  30  50  60
   O  EE  10  20  30  60
   O  TT  10  60

A   DCA   AA
   T X-X S0

C  80
   T X-X P1
   T X-X I1
   C  40

A   PHL   BB
   T X-X S0
   T X-X P1
   T X-X P2
   T X-X I5
   T X-X T1
   C 401 462

$ 'END OF FILE
```

3.3.7 PRAM File Data Elements.

3.3.7.1 Element Name - FILE ID.

Class - Alpha

Size - 4

Edit Criteria - Must contain the character string PRAM.

Description: This is the first element in the file and occurs only in the first record. It serves to identify the PARAMETER ADAPTATION file. This element must be followed by at least one blank and the FSDPS Identification subset.

3.3.7.2 Record Type - FSDPS Identification Set Record Elements.

3.3.7.2.1 Element Name - FSDPS IDENTIFICATION KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character I.

Description: This element begins a set of the Parameter Adaptation file and also serves to terminate any preceding set. The I key element must be followed by at least one blank and the FSDPS IDENTIFICATION element.

3.3.7.2.2 Element Name - FSDPS IDENTIFICATION.

Class - Alphanumeric

Size - 3 to 4

Edit Criteria - Must be a unique FSDPS Identification.

Description: This element defines the FSDPS that will process the parameters defined in this subset. The FSDPS IDENTIFICATION element must be followed by at least one blank and the AFSS Identification subset or Parameter Name and Value subset.

3.3.7.3 Record Type - AFSS Identification Subset Record Elements.

3.3.7.3.1 Element Name - AFSS IDENTIFICATION KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character A.

Description: This subset identifies an AFSS associated with the FSDPS. Each AFSS should be adapted as a separate A subset. This element must be followed by at least one blank and the AFSS Identification.

3.3.7.3.2 Element Name - AFSS IDENTIFICATION.

Class - Alpha

Size - 3

Edit Criteria - Must contain an identifier adapted in the LOCFIX file as a Flight Service Station.

Description: The parameter values that follow this subset apply only to this AFSS. The AFSS identified in this element must be associated with the FSDPS identified in the I key subset. This element must be followed by at least one blank and the Parameter Name and Value subset.

3.3.7.4 Record Type - Parameter Name and Value Subset Record Elements.

3.3.7.4.1 Element Name - PARAMETER NAME AND VALUE KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character P.

Description: This element identifies a parameter and value for either the entire FSDPS or each AFSS depending on which subset it follows, P subset or A subset, respectfully. This element must be followed by at least one blank and the PARAMETER element.

3.3.7.4.2 Element Name - PARAMETER.

Class - Alpha

Size - 4

Edit Criteria - Must be a parameter identified in Appendix F to FAA-E-2685.

Description: These are the parameters that apply to the FSDPS or AFSS. Other parameters such as those that apply to messages (i.e., MEDI, SART, etc.) are adapted in other files. This element must be followed by at least one blank and the VALUE element.

3.3.7.4.3 Element Name - VALUE.

Class - Digits

Size - 2 to 5

Edit Criteria - Must be within the value range specified in Appendix F, FAA-E-2685, for the PARAMETER element it follows.

Description: This element provides the decimal value for the element it follows. Some parameters apply to all AFSS's associated with the FSDPS while others only apply to one AFSS. This element must be followed by at least one blank and the SPECIAL element or one of the following key subsets: I, A, P, or \$.

3.3.7.4.4 Element Name - SPECIAL.

Class - Alpha

Size - 3

Edit Criteria - Must be the identification of an ARTCC adapted in the ATCA file and is only valid for the parameter ATCT.

Description: This element may only be adapted for the ATCT parameter and identifies the ARTCC that the VALUE element applies too. The ATCT parameter may be adapted for each ARTCC and, when adapted, must be followed by at least one blank and another subset.

3.3.7.5 Record Type - End of File Subset Record Elements.

3.3.7.5.1 Element Name - END OF FILE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character \$, in other than column one.

Description: This element indicates the end of PARAMETER ADAPTATION file. The character \$ may only be used once and at the end of a file. The END OF FILE KEY must be followed by at least one blank.

Example Of The PRAM File:

PRAM

I	ABCD	'FSDPS ID
P	ADDI 72	'AIRCRAFT DATA DROP INTERVAL
P	ASRI 30	'AUTOMATIC SEARCH AND RESCUE INITIATION
P	ATCT 72 ZDC	'AIR TRAFFIC CONTROL TRANSMIT TIME
P	ATCT 20 ZNY	'AIR TRAFFIC CONTROL TRANSMIT TIME
P	ATCT 15 ZTL	'AIR TRAFFIC CONTROL TRANSMIT TIME
P	MXAA 09	'MAXIMUM ADDRESSES IN SVC B ADDRESSES
P	MXCA 69	'MAXIMUM CHARACTERS IN SVC B ADDRESS
P	NAKT 30	'NO ACKNOWLEDGEMENT S QUEUE TIME
P	PERP 10	'PARITY ERROR RATE PERCENT
P	PFDI 120	'PROPOSED FLIGHT PLAN DROP INTERVAL
P	RWPA 17	'ROUTE WEATHER PROCESSING ALTITUDE
P	ROWA 25	'WEATHER ROUTE CORRIDOR WIDTH
P	SARA 25	'WEATHER SEARCH AREA PADIUS
P	TTDA 30	'TIME TO DISPLAY ALERT

A MIX

P	ILPI 60	'INBOUND LIST PRINT INTERVAL
P	LOGT 24	'LOG TALLIES PRINT TIME

A PHL

P	ILPI 55	
P	LOGT 24	

A PQR

P	ILPI 60	
---	---------	--

\$

3.3.8 SEQUE File Data Elements.

3.3.8.1 Element Name - FILE - ID.

Class - Alpha

Size - 5

Edit Criteria - Must contain the character string SEQUE.

Description: This is the first element in the file and occurs only in the first record. It serves to identify the Sequence Presentation file.

3.3.8.2 Record Type - Sequence Set Record Elements.

3.3.8.2.1 Element Name - FSDPS - KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character I.

Description: This element begins a set of the Sequence Presentation data and also serves to terminate any preceding set of Sequence Data. This element must be followed by the FSDPS Identification element and must be separated from the FSDPS Identification by at least one blank.

3.3.8.2.2 Element Name - FSDPS IDENTIFICATION.

Class - Alphanumeric

Size - 3 to 4

Edit Criteria - FSDPS identifications must be unique within the SEQUE file.

Description: This element occurs once for each FSDPS that is adapted in the FSAS. It identifies the FSDPS's, whose associated AFSS's may access the sequences adapted in this set. This element must be followed by at least one blank and one or more SEQUENCE IDENTIFICATION subsets.

3.3.8.3 Record Type - Sequence Subset Record Elements.

3.3.8.3.1 Element Name - SEQUENCE IDENTIFICATION KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character S.

Description: This element identifies the beginning of a sequence of data and the end of a previous sequence. This element must be followed by a blank and the SEQUENCE IDENTIFICATION element.

3.3.8.3.2 Element Name - SEQUENCE IDENTIFICATION.

Class - Alphanumeric

Size - 2 to 6

Edit Criteria - This element must be a two to three digit number or a two to six alphanumeric mnemonic that does not duplicate a key word. The first six SEQUENCE IDENTIFICATIONS must be IR, VR, MOA, PRL, PRH and PRS. A sequence may include 1 to 128 messages (D key elements and "(" subsets).

Description: This element identifies a sequence or data that is eligible for retrieval and must be followed by a blank and one or more DATA TYPE AND REPORTING POINT subsets.

NOTE: Adaptation conventions require 1 to be adapted as 01, and A or B to be adapted as AA or BB.

3.3.8.4 Record Type - Data Type and Reporting Point Subset Record Elements.

3.3.8.4.1 Element Name - DATA TYPE AND REPORTING POINT KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted must contain the character D.

Description: This element identifies the beginning of the nonstatic data that will be associated with the Sequence Identifiers. It is followed by one or more occurrences of the DATA TYPE AND REPORTING POINTS. The D must be followed by at least one blank.

3.3.8.4.2 Element Name - DATA TYPE ELEMENT.

Class - Characters

Size - 2 to 4

Edit Criteria - Must be a valid weather/message type adapted in the Service A and B Source file (WXDATA).

Description: The dynamically stored data for the DATA TYPE element will be retrieved for the facility(ies) identified in the following elements. This element must be followed by at least one blank and at least one REPORTING POINT element.

3.3.8.4.3 Element Name - REPORTING POINT.

Class - Alphanumeric

Size - 2 to 4

Edit Criteria - Must be adapted in the LOCFIX file.

Description: The data, of the type specified in the first element, for the reporting locations adapted in these elements will be retrieved and displayed in the adapted sequence. This element is followed by at least one blank and another REPORTING POINT or the key character D, G, I, or \$.

3.3.8.5 Record Type - Static Data Subset Record Elements.

3.3.8.5.1 Element Name - STATIC DATA KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character G.

Description: This element indicates that static data are to be adapted in the Sequence. The element must be followed by one or more blanks and the BEGIN CHARACTERS KEY "(".

3.3.8.6 Record Type - Begin Characters Subset Record Elements.

3.3.8.6.1 Element Name - BEGIN CHARACTERS KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character (, and must follow the G character.

Description: This element indicates the start of a random string of elements and/or characters. The BEGIN CHARACTERS KEY must be followed by at least one blank and one or more STATIC DATA elements.

3.3.8.6.2 Element Name - STATIC DATA.

Class - Characters

Size - 1 or more

Edit Criteria - Must not include the) key preceded by a blank except as the last character. All other characters are valid.

Description: The adapted input may be in any format and may include blank characters to provide spacing. The data may occupy more than one page (screenfull). The last DATA element must be followed by one or more blanks and the END CHARACTERS KEY.

3.3.8.7 Record Type - End Characters Subset Record Elements.

3.3.8.7.1 Element Name - END CHARACTERS KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character).

Description: This element indicates the end of the STATIC DATA. The next element may be any of the KEYS that are valid for this file except "(" or ")." The END CHARACTERS KEY ")" must be followed by one or more blanks.

3.3.8.8 Record Type - End of File Subset Record Elements.

3.3.8.8.1 Element Name - END OF FILE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character \$, in other than column one.

Description: This element indicates the end of the SEQUENCE FILE. The character \$ may only be used once and at the end of a file. The END OF FILE KEY must be followed by one or more blanks.

Example Of SEQUE File:

SEQUE

I ZCMM

S 01

G (SEQUENCE INDEX

SEQ ID CONTENTS

1 INDEX

2 LOCAL PHONE NUMBERS

TWEB27 TW ROUTES 27 AND)

S 02

G (LOCAL PHONE NUMBERS

CHIEF'S OFFICE 2343
FIRE DEPARTMENT 1100
WATCH DESK 2702)

S TWEEB27

G (NEW YORK AREA SYNS AND TWEB ROUTE 27 NYC-PHL-DCA &
TWEB ROUTE 73 PIT-DCA)

D SYNS NYC

D TWEB 27

D SA JFK LGA PHL

G (INCLUDE THE FOLLOWING AS REQUIRED)

D TWEB 73

D SA PIT DCA

\$

NOTE: Records 13, 17, 25 and 28 would provide a blank line.

3.3.9 SIDRTE File Data Elements.

3.3.9.1 Element Name - FILE ID.

Class - Alpha

Size - 6

Edit Criteria - Must contain the character string SIDRTE.

Description: This is the first element in the file and occurs only in the first record. It serves to identify the STANDARD INSTRUMENT DEPARTURE (SID) ROUTE file. This element must be followed by at least one blank and the SID Route Name Set.

3.3.9.2 Record Type - SID Route Name Set Record Elements.

3.3.9.2.1 Element Name - ROUTE NAME KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character I.

Description: This element begins a set of the SID Route Name file and also serves to terminate any preceding set. The I key element must be followed by at least one blank and the ROUTE NAME element.

3.3.9.2.2 Element Name - ROUTE NAME.

Class - Alphanumeric

Size - 3 to 6

Edit Criteria - Must be unique within all adapted route identifiers.

Description: This element provides the SID Name for the route identified in the following subsets. The name must be unique within the SIDRTE, STARTE, and AWAY files. The ROUTE NAME element must be followed by at least one blank and the Departure Airport subset.

3.3.9.3 Record Type - Departure Airport Key Record Elements.

3.3.9.3.1 Element Name - DEPARTURE AIRPORT KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character D.

Description: The airports identified in this subset will be eligible departure points for routes that include this SID. This element must be followed by at least one blank and one or more DEPARTURE AIRPORT elements.

3.3.9.3.2 Element Name - DEPARTURE AIRPORT.

Class - Alphanumeric

Size - 2 to 5

Edit Criteria - Must contain one or more Airport Names adapted in the LOCFIX file.

Description: This multioccurrence element provides the eligible departure airport(s) for the SID route identified in the I key subset. Each element must be followed by at least one blank and the last element shall be followed by the Fix Name subset.

3.3.9.4 Record Type - Fix Name Subset Record Elements.

3.3.9.4.1 Element Name - FIX NAME KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character F.

Description: The Fix Name subset(s) identify the Fix(es) that comprise the SID. One or more F key subset(s) is required for each SID. This element must be followed by at least one blank and the FIX NAME element \$.

3.3.9.4.2 Element Name - FIX NAME.

Class - Character

Size - 2 to 12

Edit Criteria - Must be adapted in the LOCFIX file and not be repeated in this SID Route Name subset.

Description: This multioccurrence element identifies the fixes that comprise the SID. The first fix is the Entry Fix and the last fix is the Exit Fix. Each element must be followed by a blank, and the last element shall also be followed by one of the following key subsets: F, T, I, or \$.

3.3.9.5 Record Type - Transition Fix Subset Record Elements.

3.3.9.5.1 Element Name - TRANSITION FIX KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character T.

Description: This optional element indicates that the element that follows is a valid Transition Fix for the SID being adapted. This element must be followed by at least one blank and the TRANSITION FIX element.

3.3.9.5.2 Element Name - TRANSITION FIX.

Class - Character

Size - 2 to 12

Edit Criteria - Must be adapted in the LOCFIX file.

Description: The TRANSITION FIX element must be followed by at least one blank and one of the following key subsets: W, F, T, I, or \$.

3.3.9.6 Record Type - Field RT Format Record Elements.

3.3.9.6.1 Element Name - FIELD RT FORMAT KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character W.

Description: This optional element indicates that there is an adapted route ("(" subset) between the SID Exit Fix and the Transition Fix (T key subset) it follows. This element must be followed by at least one blank and the Begin Transition Route subset.

3.3.9.7 Record Type - Begin Transition Route Subset Record Elements.

3.3.9.7.1 Element Name - BEGIN TRANSITION ROUTE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character (.

Description: This element must follow the W key element and indicates that Transition Route data follows. The "(" key must be followed by at least one blank and one or more route elements.

3.3.9.7.2 Element Name - ROUTE.

Class - Character

Size - 2 to 576

Edit Criteria - Must contain adapted Route(s) and/or Locations/Fixes.

Description: These ROUTE elements comprise the route from the Exit Fix to the Transition Fix. The maximum number of Route elements (48) would include the Departure Point, Transition Fix and Destination; therefore, the SID maximum would be 45. The element limit only applies to Flight Plans sent to an ARTCC. Each ROUTE element must be followed by at least one blank and the last element must be followed by the END TRANSITION ROUTE KEY.

3.3.9.8 Record Type - End of Transition Route Key Record Elements.

3.3.9.8.1 Element Name - END TRANSITION ROUTE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character).

Description: This element is required in every set that contains a field RT Format subset. The ")" key must be followed by at least one blank and one of the following key subsets: T, I, or \$.

3.3.9.9 Record Type - End of File Key Record Elements.

3.3.9.9.1 Element Name - END OF FILE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character \$ in other than column one.

Description: This element indicates the end of the SID ROUTE file. The character \$ may only be used once and at the end of a file. The END OF FILE KEY must be followed by at least one blank.

Example Of SID Route File:

```
SIDRTE
I  SIDNM1
   F    ETR
   F    GWW
   F    FRD115045
   F    FRD215035
   F    HQA
      T    TEA
      T    FRR
      W    ( CAA FAA233044 J55 )
   $ 'END OF FILE
```

3.3.10 STARTE File Data Elements.

3.3.10.1 Element Name - FILE ID.

Class - Alpha

Size - 6

Edit Criteria - Must contain the character string STARTE.

Description: This is the first element in the file and occurs only in the first record. It serves to identify the Star Route file. The file ID element must be followed by at least one blank and the STARTE NAME KEY.

3.3.10.2 Record Type - Standard Terminal Arrival Route Name Set Record Elements.

3.3.10.2.1 Element Name - STARTE NAME KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character I.

Description: This element begins a set of Standard Terminal Arrival Route (STAR) data and also serves to terminate any preceding set of STARTE data. The STARTE NAME KEY must be followed by at least one blank and the STARTE NAME element.

3.3.10.2.2 Element Name - STARTE NAME.

Class - Alphanumeric

Size - 3 to 6

Edit Criteria - The last character must be numeric, and the name must be unique within the route files.

Description: This element provides the name for the STAR described by the remaining subsets. The STARTE NAME must be followed by at least one blank and the Arrival Airport subset.

3.3.10.3 Record Type - Arrival Airport Subset Record Elements.

3.3.10.3.1 Element Name - ARRIVAL AIRPORT KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character A.

Description: This subset contains the identifier(s) for the airport(s) serviced by this STAR. The ARRIVAL AIRPORT KEY must be followed by at least one blank and the AIRPORT IDENTIFICATION element.

3.3.10.3.2 Element Name - AIRPORT IDENTIFICATION.

Class - Alphanumeric

Size - 2 to 5

Edit Criteria - The identifier(s) must be adapted in the LOCFIX file.

Description: This multioccurrence element provides the identification(s) of airport(s) that must be the destination airport when this STAR is included in a Flight Plan message. One or more AIRPORT IDENTIFICATION elements are required and each must be followed by at least one blank. The last element must also be followed by the Fix Name subset.

3.3.10.4 Record Type - Fix Name Subset Record Elements.

3.3.10.4.1 Element Name - FIX NAME KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character F.

Description: Each STAR must contain an entry and exit fix; however, they may be the same fix. The FIX NAME KEY must be followed by at least one blank and one or more FIX NAME elements.

3.3.10.4.2 Element Name - FIX NAME.

Class - Alphanumeric

Size - 2 to 12

Edit Criteria - Each identifier must be adapted in the LOCFIX file and not be repeated in the STARTE Name subset.

Description: The element(s) adapted in this subset describe the Fix(es) that comprise the STAR. A STAR may be comprised of one or more FIX NAME elements. The first fix is the Entry Fix and the last fix is the Exit Fix; they could be the same fix for a one fix STAR. Fixes must be adapted in the order that they occur and each must be followed by at least one blank. The last FIX NAME element must also be followed by one of the following key subsets: T, I, or \$.

3.3.10.5 Record Type - Transition Fix Key Record Elements.

3.3.10.5.1 Element Name - TRANSITION FIX KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character T.

Description: This optional subset identifies the route of flight between the last route fix (Airway or Direct) and the Entry Fix on the STAR. The Entry Fix is also a Transition Fix but is not eligible for a T key subset. If the Entry Fix is the only Transition Fix, no T key subsets should be adapted.

A Standard Terminal Arrival Route Name set may include one or more Transition Fix subsets. The TRANSITION FIX KEY is followed by at least one blank and the TRANSITION FIX element.

3.3.10.5.2 Element Name - TRANSITION FIX.

Class - Characters

Size - 2 to 12

Edit Criteria - When adapted, must be adapted in the LOCFIX file.

Description: This element identifies the point where the transition starts from the en route segment to the STAR. The TRANSITION FIX must be followed by at least one blank and one of the following key subsets: W, T, I, or \$.

3.3.10.6 Record Type - Transition Route Subset Record Elements.

3.3.10.6.1 Element Name - FIELD RT FORMAT KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character W.

Description: This optional element is used to indicate that a special routing is us between the Transition Fix it follows and the Entry Fix on the STAR. The FIELD RT FORMAT KEY must be followed by at least one blank and the BEGIN TRANSITION ROUTE KEY.

3.3.10.7 Record Type - Begin Transition Route Subset Record Elements.

3.3.10.7.1 Element Name - BEGIN TRANSITION ROUTE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character (.

Description: This optional element may only be adapted following the W key. It must be followed by at least one blank and one or more ROUTE elements.

3.3.10.7.2 Element Name - ROUTE.

Class - Characters

Size - 2 to 576

Edit Criteria - Must contain adapted Route(s) and/or Locations/Fixes.

Description: These route elements comprise the route from the Transition Fix to the Entry Fix. The maximum number of Route elements (48) only applies to Flight Plans sent to an ARTCC. Each ROUTE element must be followed by at least one blank, and the last element must also be followed by the END TRANSITION ROUTE KEY.

3.3.10.8 Record Type - End Transition Route Subset Record Elements.

3.3.10.8.1 Element Name - END TRANSITION ROUTE KEY.

Class - Characters

Size - 1

Edit Criteria - Must contain the character).

Description: This element is required in every set that contains a Transition Route subset. The ")" key must be followed by at least one blank and one of the following key subsets: T, I, or \$.

3.3.10.9 Record Type - End of File Subset Record Elements.

3.3.10.9.1 Element Name - END OF FILE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character \$.

Description: This element indicates the end of the STARTE file. The character \$ may only be used once and at the end of a file. The END OF FILE KEY must be followed by at least one blank.

Example Of STARTE File:

```
STARTE
I RMG1
      A ATL PDK ETC
      F RMG
      F DALAS331004
      F DALAS
      T BNA
      W ( J20 V2 )
$
```

3.3.11 SUBFIX File Data Elements.

3.3.11.1 Element Name - FILE ID.

Class - Alpha

Size - 6

Edit Criteria - Must contain the character string SUBFIX.

Description: This is the first element in the file and occurs only in the first record. It serves to identify the Substitute Fix file. The SUBFIX file is used to equate identifiers that are adapted in the LOCFIX file and other (primarily ICAO) identifiers that have the same geographic location. The file ID element must be followed by at least one blank and one or more I key sets.

3.3.11.2 Record Type - Fix Identifiers Set Record Elements.

3.3.11.2.1 Element Name - FIX IDENTIFIERS KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character I.

Description: This element begins a set of Substitute Fix file data and also serves to terminate any preceding set of SUBFIX data. The FIX IDENTIFIERS KEY must be followed by at least one blank and two elements.

3.3.11.2.2 Element Name - NON-ADAPTED FIX.

Class - Characters

Size - 2 to 12

Edit Criteria - Must not be adapted in the LOCFIX file.

Description: This element is the identification of a location that is not adapted in the LOCFIX file that is to be equated to the next element. This element must be followed by at least one blank and the ADAPTED FIX element.

3.3.11.2.3 Element Name - ADAPTED FIX.

Class - Character

Size - 2 to 12

Edit Criteria - Must be adapted in the LOCFIX file.

Description: This element is the identification of a location that is adapted in the LOCFIX file that has another identifier; i.e., ICAO Identifier, that is valid for message processing. More than one NON-ADAPTED FIX element may be equated to the same ADAPTED FIX element. This element must be followed by at least one blank and one of the following keys: I or \$.

3.3.11.3 Record Type - End of File Subset Record Elements.

3.3.11.3.1 Element Name - END OF FILE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character \$, in other than column one.

Description: This element indicates the end of the SUBFIX file. The character \$ may only be used once and at the end of a file. The END OF FILE KEY must be followed by at least one blank.

Example Of SUBFIX File:

SUBFIX

I KLAX LAX

I KMEM MEM

\$ 'END OF SUBFIX FILE

3.3.12 WXDATA File Data Elements.

3.3.12.1 Element Name - File ID.

Class - Alpha

Size - 6

Edit Criteria - Must contain the character string WXDATA.

Description: This is the first element in the file and occurs only in the first record. It serves to identify the Service A and B Source file. This file provides a list of the Service A and Service B Weather and Message types and, where applicable, the normal reporting locations. The FILE ID must be followed by at least one blank and a Weather/Message Type subset.

3.3.12.2 Record Type Record Elements.

3.3.12.2.1 Element Name - WEATHER/MESSAGE TYPE KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character I.

Description: This element begins a set of Weather/Message Type data and also serves to terminate any preceding set of WXDATA data. This element must be followed by at least one blank and one or more WEATHER TYPE or MESSAGE TYPE elements.

3.3.12.2.2 Element Name - WEATHER/MESSAGE TYPE.

Class - Characters

Size - 2 to 6

Edit Criteria - Must be unique within the WXDATA file.

Description: This multioccurrence element identifies the Weather/Message type(s) that the remaining subsets of this set pertain to. Each WEATHER/MESSAGE TYPE element must be followed by at least one blank and the last element must also be followed by one of the following key subsets: R or U.

WEATHER/MESSAGE TYPES that would have the same remaining subsets may be combined; e.g., SP and USP may be combined.

NOTE: An exclamation point (!) is adapted for Notices to Airmen (NOTAM) and would be adapted as !!, due to adaptation conventions.

3.3.12.3 Record Type - Reporting Station Subset Record Elements.

3.3.12.3.1 Element Name - REPORTING STATION KEY.

Class - Alpha

Edit Criteria - When adapted, must contain the character R.

Description: This optional element identifies the Reporting Stations that are to be associated with the Weather/Message Type adapted in the I key subset. The REPORTING STATION KEY must be followed by at least one blank and one or more REPORTING STATION elements.

This subset should not be adapted when standard reporting stations are not applicable; i.e., NOTAM.

3.3.12.3.2 Element Name - REPORTING STATIONS.

Class - Alphanumeric

Size - 3 to 4

Edit Criteria - Each alpha element must also be adapted in the LOCFIX file. Numeric elements are not validated but must not exceed three digits.

Description: The alpha elements identify locations that are expected to input or report the WEATHER/MESSAGE TYPE(s) identified in the previous subset. They must all have an adapted location for retrieval purposes; all required and valid reporting locations should be adapted. The numeric elements identify, Transcribed Weather Broadcast (TWEB) routes. They are only adapted when the previous subset contains the character string TWEB. These elements must be followed by at least one blank and the last element must also be followed by a U key subset.

3.3.12.4 Record Type - Update Time Subset Record Elements.

3.3.12.4.1 Element Name - UPDATE TIME KEY.

Class - Alpha

Size - 1

Edit Criteria - Must contain the character U.

Description: This element must be followed by at least one blank and the UPDATE TIME element.

3.3.12.4.2 Element Name - UPDATE TIME.

Class - Alphanumerics

Size - 2

Edit Criteria - Must contain two digits (01 to 99) or the letters AR.

Description: The element provides the update schedule for the Weather/Message Type(s) adapted in the I key subset. Time may be adapted in hours (01 to 99), or the letters AR may be adapted for nonscheduled updates. The UPDATE TIME element must be followed by at least one blank and one of the following key subsets: M, I, or \$.

3.3.12.5 Record Type - Message Drop Interval Subset Record Elements.

3.3.12.5.1 Element Name - MESSAGE DROP INTERVAL KEY.

Class - Alpha

Size - 1

Edit Criteria - When adapted, must contain the character M.

Description: This optional subset contains the applicable deletion parameter for the Weather/Message Type(s) adapted in the I key subset. When this subset is not adapted, stored message(s) must be deleted by specific cancellation messages or by manual deletion. This element must be followed by at least one blank and a PARAMETER NAME element. The PARAMETER NAME and VALUE elements may be repeated for all pertinent parameters.

3.3.12.5.2 Element Name - PARAMETER NAME.

Class - Alpha

Size - 4

Edit Criteria - None

Description: This element contains a PARAMETER NAME specified in Appendix F, to FAA-E-2685. More than one PARAMETER NAME may be adapted in an M key subset. However, each must be followed by at least one blank and a VALUE element.

The valid parameters are:

- MEDI - Message Expiration Drop Interval
- FDUP - Forecast Winds & Temperatures Aloft Update Period
- FDDT - FD Data Time
- FDRT - FD Retrieval Time
- PRRT - Pilot Report Retention Time
- SART - SA Retention Time
- CSPT - Convective SIGMET Purge Time

3.3.12.5.3 Element Name - VALUE.

Class - Character

Size - 2 to 5

Edit Criteria - None

Description: This element should contain a value within the range specified in Appendix F to FAA-E-2685 for the PARAMETER name it follows. The VALUE element may appear more than once in an M key subset. However, it must follow a PARAMETER NAME element and be followed by at least one blank and a PARAMETER NAME element or one of the following key subsets: I or \$.

The valid value range for each is:

MEDI - 01 to 1439 Minutes
FDUP - 00/00 to 23/23 Hours
FDDT - 00/00 to 23/23 Hours
FDRT - 01 to 23 Hours
PRRT - 15 to 180 Minutes
SART - 15 to 360 Minutes
CSPT - 00 to 59 Minutes

3.3.12.6 Record Type - End of File Subset Record Elements.

3.3.12.6.1 Element Name - END OF FILE KEY.

Class - Character

Size - 1

Edit Criteria - Must contain the character \$, in other than column one.

Description: This element indicates the end of the Service A and B Source (WXDATA) file. The character \$ may only be used once and at the end of a file. The END OF FILE KEY must be followed by at least one blank.

Example Of WXDATA File Format With Partial Data:

WXDATA

I SA 'HOURLY AVIATION WEATHER

R

XXX XXX XXX '(WHERE XXX = REPORTING STATION)

U 01

M SART 180

I SW 'SUPPLEMENTRY AVIATION WEATHER

R

XXX XXX XXX

U 01

M SART 180

I RS 'RECORD SPECIAL AVIATION WEATHER

R

XXX XXX XXX

U AR

M SART 180

I SP 'SPECIAL AVIATION WEATHER

R

XXX XXX XXX

U AR

M SART 180

I USP 'URGENT SPECIAL AVIATION WEATHER

R

XXX XXX XXX

U AR

M SART 180

I UA 'PILOT REPORT

R

XXX XXX XXX

U AR

M PRRT 180

I UUA 'URGENT PILOT REPORTS

R

XXX XXX XXX

U AR

M PRRT 180

I WW 'SEVERE WEATHER FORECASTS OR BULLETINS

U AR

M MEDI 360

I WW-A 'AMENDED SEVERE WEATHER FORECASTS OR BULLETINS

'ALSO KNOWN AS STATUS REPORT

Example Of WXDATA File Format With Partial Data (Continued)

I AC 'SEVERE WEATHER OUTLOOK NARRATIVE
U AR
M MEDI 1440

I WS 'FLIGHT ADVISORIES-SIGMET
R
ANC BOS CHI DEW FAI JNU MIA MKC MSY SFO SLC WBC
U AR
M MEDI 240

I WA 'FLIGHT ADVISORIES-AIRMET
R
ANC BOS CHI DEW FAI JNU MIA MKC MSY SFO SLC WBC
U AR
M MEDI 360

I WST 'CONVECTIVE SIGMET
R
MKCW MKCC MKCE
U AR
M CSPT 54

I AWW 'SEVERE WEATHER FORECAST ALERT
U AR
M MEDI 360

I WH 'ABBREVIATED HURRICANE ADVISORIES
R
MIA SFO
U AR
M MEDI 360

I FA 'AVIATION AREA FORECASTS
R
ANC BOS CHI DEW FAI JNU MIA MKC MSY SFO SLC WBC
U 12
M MEDI 1080

I FA AMD 'AVIATION AREA FORECAST AMENDMENT
R
ANC BOS CHI DFW FAI JNU MIA MKC MSY SFO SLC WBC
U AR
M MEDI 1F080

I FA COR 'AVIATION AREA FORECAST CORRECTION
R
ANC BOS CHI DFW FAI JNU MIA MKC MSY SFO SLC WBC
U AR
MEDI 1080

Example Of WXDATA File Format With Partial Data (Continued)

I FT 'AVIATION TERMINAL FORECASTS
R
XXX XXX XXX
U AR
M MEDI 1440

I FT COR 'AVIATION TERMINAL FORECAST CORRECTION
R
XXX XXX XXX
U AR
M MEDI 1440

I FD1 'WINDS AND TEMPERATURE ALOFT FORECAST
R
XXX XXX XXX
U 12
M MEDI 720 FDUP 06/18 FDDT 00/12 FDRT 18

I FD2 'WINDS AND TEMPERATURE ALOFT FORECAST
R
XXX XXX XXX
U 12
M MEDI 1080 FDUP 15/03 FDDT 00/12 FDRT 18

I FD3 'WINDS AND TEMPERATURE ALOFT FORECAST
R
XXX XXX XXX
U 12
M MEDI 1439 FDUP 21/09 FDDT 00/12 FDRT 18

I FD8 'WINDS AND TEMPERATURE ALOFT FORECAST
R
XXX XXX XXX
U 12
M MEDI 720 FDUP 06/18 FDDT 00/12 FDRT 18

I FD9 'WINDS AND TEMPERATURE ALOFT FORECAST
R
XXX XXX XXX
U 12
M MEDI 1080 FDUP 15/03 FDDT 00/12 FDRT 18

I SDI 1080 'RADAR WEATHER REPORT
R
XXX XXX XXX
U 01
M MEDI 60

I !! 'NOTICE TO AIRMEN NOTE: ONLY ONE ! WILL BE IN THE MESSAGE
U AR

Example Of WXDATA File Format With Partial Data (Continued)

I !FDC	'FLIGHT DATA CENTER NOTAM
U AR	
I TWEB	'TRANSCRIBED WEATHER BROADCAST
R	
XXX XXX XXX	'TWEB ROUTE NUMBERS
U AR	
M MEDI 1080	
I TWEB AMD	'TRANSCRIBED WEATHER BROADCAST AMENDMENT
R	
XXX XXX XXX	
U AR	
M MEDI 1080	
I TWEB COR	'TRANSCRIBED WEATHER BROADCAST CORRECTION
R	
XXX XXX XXX	
U AR	
M MEDI 1080	
I WO9	'TROPICAL DEPRESSION ADVISORY
R	
MIA SFO	
U AR	
I FX	'MISCELLANEOUS FORECASTS
U AR	
I SYNS	'TRANSCRIBED WEATHER BROADCAST SYNOPSES
R	
XXX XXX XXX	
U AR	
M MEDI 1080	
I SYNS AMD	'TRANSCRIBED WEATHER BROADCAST
	'SYNOPSIS AMENDMENT
R	
XXX XXX XXX	
U AR	
M MEDI 1080	
I SYNS COR	'TRANSCRIBED WEATHER BROADCAST
	'SYNOPSIS CORVECTION
R	
XXX XXX XXX	
U AR	
M MEDI 1080	
I CARF CNTM	'CENTRAL ALTITUDE RESERVATION FACILITY NOTAM
U AR	

Example Of WXDATA File Format With Partial Data (Continued)

I ANnnnn NOTAM 'INTERNATIONAL NOTICE TO AIRMEN
U AR

INREQ 'INFORMATION REQUEST
U AR

I ALNOT 'ALERT NOTICE
U AR

I LE 'LAW ENFORCEMENT
U AR

I QALQ 'OVERDUE AIRCRAFT ACTION
U AR

I ATCSGC 'ADVISORY
U AR

I IR 'IFR ROUTES
U AR

I VR 'VFR ROUTES
U AR

I MOA 'MILITARY OPERATIONS AREA
U AR

\$

'END OF WXDATA FILE

4. OFF-LINE STORAGE.

This section describes the conventions and physical characteristics of DBT files stored off-line. Included in this description is the storage medium and storage management.

4.1 STORAGE MEDIUM.

The storage medium is nine-track magnetic tape, odd parity, and 800 bytes per inch (BPI).

4.2 STORAGE MANAGEMENT.

Storage management/tape identification is accomplished by internal and external labels. An external label shall accompany every tape. The following information shall be contained on the external label:

- a. Tape Name
- b. Number of files on the tape.
- c. File Names
- d. Any files that are not completely contained on the tape and the name of the tape(s) containing the remainder of each such file.

There shall be two internal labels. The first label shall precede all the files on a tape and shall contain the following information:

- a. Tape Name
- b. Number of files on tape
- c. File Names
- d. Name of file continued from another tape and name of tape continued from.

The second label shall succeed the last data record on the tape and shall contain one of the following messages:

- a. End of Tape or
- b. This file: (File Name) is continued on this tape: (Tape Name where file is continued)

All internal labels shall be 80-byte records with a blocksize of 80 bytes and shall be ASCII characters.

4.3 PHYSICAL CHARACTERISTICS.

The header shall be separated from the files that follow by two file marks. Each file shall be separated from the following file by two single file marks. After

the last file, two file marks shall be used to separate the trailer. The trailer shall be followed by a single file mark or end-of-reel mark.

4.4 CATALOGUE.

A tape catalogue name consists of three parts: (1) Volume, (2) Source ID, and (3) Extension. These three parts are connected via a colon; e.g., VOL:SOURCE ID:EXTENSION

4.4.1 Volume.

Volume is three characters long and identifies two pieces of information for each tape. The first character is always the letter V. The second character identifies the tape as one of two types:

Type 1 - Indicated by the letter O is an operational tape. This tape is either an existing master or a future existing master tape (update).

Type 2 - Indicated by the letter D is a development tape. This tape contains partial files and interim data not intended to be used as operational in its current form in the data base.

The third character indicates the year in which the tape is created. The digits used are 0 through 9 which indicates 1980 through 1989 respectively; e.g.,

VO2: would indicate an operational tape created in 1982

VD1: would indicate a developmental tape created in 1981

4.4.2 Source ID.

Source ID is up to eight characters long and identifies the source of the data and the copy numbers if more than one copy exist.

The first part of the source ID shall be no longer than six characters and shall be an approved division identifier. The last two characters shall be a C followed by a single digit from 1 to 9. These indicate the copy of the tape from copy 1 (C1) to copy 9 (C9); e.g.,

VO1: ACT250C2 would indicate copy No. 2 of an operational tape created in 1981 with the contents from ACT-250.

VO1: AAT430C3 would indicate copy No. 3 of an operational tape created in 1981 the contents of which were supplied by AAT-430.

4.4.3 Extension.

The extension consists of two parts and shall be four characters long. Part one is the creation date and part two is a unique identifier. The first three characters of the extension are digits representing the Julian day of year the tape was made. Zeros shall be used as padding on the left should the day be less than three digits long. The final character shall be an alpha character used as a unique identifier of the tape; e.g.,

VO2: ACT250C1:109A would indicate copy No. 1 of a developmental tape created on the 109th day of 1982, the contents were supplied by ACT-250, and that this is uniquely the A tape of that date.

VD2:ACT250C1:109A

VOLUME

Tape Type
Year Created

SOURCE/COPY ID

Source of Contents
Copy No.

EXTENSION

Julian Day of Year
Unique Identifier

5. BIBLIOGRAPHY.

1. DiNofrio, J., Brodie, W. Jr., and Page, R., Data Identification Document for the Model 1, Package 2, Data Base of the Flight Service Automation System, Technical Center Data Report, DOT/FAA/CT-81/169, September 1981.
2. DiNofrio, J., Brodie, W. Jr., and Page, R., Update Procedures for the Model 1, Package 2, Data Base of the Flight Service Automation System, Technical Center Data Report, DOT/FAA/CT-81/170, September 1981.
3. DiNofrio, J., Brodie, W. Jr., and Page, R., Discrepancy Report for the Model 1, Package 2, Data Base of the Flight Service Automation System, Technical Center Data Report, DOT/FAA/CT-81/171, September 1981.
4. DiNofrio, J., Brodie, W. Jr., and Page, R., Adaptation Data Logical Characteristics Document for Model 1, Package 2, of the Flight Service Automation System, Technical Center Data Report, DOT/FAA/CT-81/178, Publication Pending.