

# **Federal Emergency Management Information System (FEMIS)**

## **Data Management Guide**

**for**

**FEMIS Version 1.5.3**

**November 20, 2002**

Prepared for the CSEPP Office  
United States Army Soldier and Biological Chemical Command  
under a Related Services Agreement  
with the U.S. Department of Energy  
Contract DE-AC06-76RLO 1830

## **Acknowledgment**

The FEMIS product is being developed by the Pacific Northwest National Laboratory as part of the US Army's Chemical Stockpile Emergency Preparedness Program (CSEPP).

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# **Federal Emergency Management Information System (FEMIS)**

## **Data Management Guide for FEMIS v1.5.3**

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# Preface

The Federal Emergency Management System (FEMIS<sup>®</sup>)<sup>(a)</sup> is an emergency management planning and response tool. The following documents were developed to support system users.

This *FEMIS Data Management Guide* provides the information needed to manage the data used to support the administrative, user-environment, database management, and operational capabilities of FEMIS.

The *FEMIS Installation Guide* provides instructions for installing and configuring the FEMIS software package.

The *FEMIS System Administration Guide* provides information on FEMIS System Administrator activities as well as the utilities that are included with FEMIS.

The *FEMIS Release Notes* provide a description of what is new in the release and any information specific to this release that was not available when other documents were published.

The *FEMIS Bill of Materials* defines FEMIS hardware, software, and communication requirements.

The *FEMIS Online Help System* explains how to use the FEMIS program, which is designed to help emergency management personnel plan for and respond to a Chemical Accident or Incident (CAI) Event at a military chemical stockpile. For System and Database Administrators, the Troubleshooting Guide consists of error messages and known problems as well as suggestions to resolve these errors and problems.

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(a) The FEMIS program is being developed by the Pacific Northwest National Laboratory as part of the US Army Chemical Stockpile Emergency Preparedness Program (CSEPP). Pacific Northwest National Laboratory is operated for the US Department of Energy by Battelle under Contract DE-AC06-76RLO 1830.

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# Acronyms and Definitions

AAT	arc attribute table
APR	ArcView Project file
CFCC	Census Feature Class Code
CLA	Chemical Limited Area
CLOBs	Character Large Objects
COTS	Commercial-Off-The-Shelf
CSEPP	Chemical Stockpile Emergency Preparedness Program
D2PC	Chemical wind dispersion model used in FEMIS
DBMS	database management system
DEI	Data Exchange Interface
DEM	digital elevation model
DLG	Digital Line Graph
E-mail	electronic mail
EMIS	Emergency Management Information System
EOC	Emergency Operations Center
EPZ	Emergency Planning Zone
FEMIS	Federal Emergency Management Information System
FIPS Code	Federal Information Processing Systems Code
GIS	geographic information system
IBS	Integrated Baseline System
IEM	Innovative Emergency Management, Inc.
LAN	local area network
MCE	Maximum Credible Event
Met	meteorological
PAD	Protective Action Decision
PAR	Protective Action Response
PAT	point/polygon attribute table
PC	personal computer
PNNL	Pacific Northwest National Laboratory
RDBMS	relational database management system
SBCCOM	US Army Soldier and Biological Chemical Command
SQL	Structured Query Language
SQL script	Sequence of SQL statements that performs database operations
UNIX	Generic name for the server operating system
USGS	United States Geological Survey

# 1.0 Overview

The Federal Emergency Management Information System (FEMIS<sup>®</sup>)<sup>(a)</sup> information resources are described in this *FEMIS Data Management Guide*. To comprehend what types of data are present, where the data is located, and how it is managed during the life span of the system, a basic understanding of the FEMIS architecture is necessary. Pacific Northwest National Laboratory (PNNL)<sup>(b)</sup> developed the system under the direction of the US Army Soldier and Biological Chemical Command (SBCCOM). FEMIS was initially designed for Chemical Stockpile Emergency Preparedness Program (CSEPP) sites that have multiple Emergency Operations Centers (EOCs). FEMIS has been expanded to allow EOCs to use the system for non-CSEPP emergencies, such as floods.

Each EOC has personal computers (PCs) that emergency planners and operations personnel use to do their jobs. These PCs are connected via a local area network (LAN) to servers that provide efficient EOC-wide services. All EOCs are interconnected via telecommunications links.

FEMIS is a client/server system where much of the application software is located on the client PC. This client software consists of the FEMIS application, government furnished dispersion models, and Commercial-Off-The-Shelf (COTS) software tools, such as the ArcView geographic information system (GIS).

A UNIX server provides data management services, ARC/INFO GIS capabilities, and meteorological (Met) input processing.

Figure 1.1 illustrates a conceptual view of FEMIS and the types of information required. Much of this information is located in the Oracle database management system (DBMS). Between EOCs, the DBMSs cooperate to share data, which allows multiple PC users to share the information while maintaining the integrity and persistence of the data. The user then adds information, makes decisions, displays maps, or uses other FEMIS functionality. Decisions and/or information are passed back to the FEMIS database and notifications are made to the FEMIS users. Other information exists on the UNIX file system and the Met server. Table 1.1 summarizes the types of relational data used by FEMIS and the general use of that data.

**Note:** See the *FEMIS Installation Guide* for assistance with creating the database and installing Oracle on the server as well as the relational database management system (RDBMS). See the *FEMIS System Administration Guide* for database administration tools. See the online Troubleshooting Guide for error messages and known problems as well as suggestions to resolve these errors and problems.

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(a) FEMIS software was copyrighted in 1995 by Battelle Memorial Institute.

(b) Pacific Northwest National Laboratory is operated for the US Department of Energy by Battelle Memorial Institute under Contract DE-AC06-76RLO 1830.

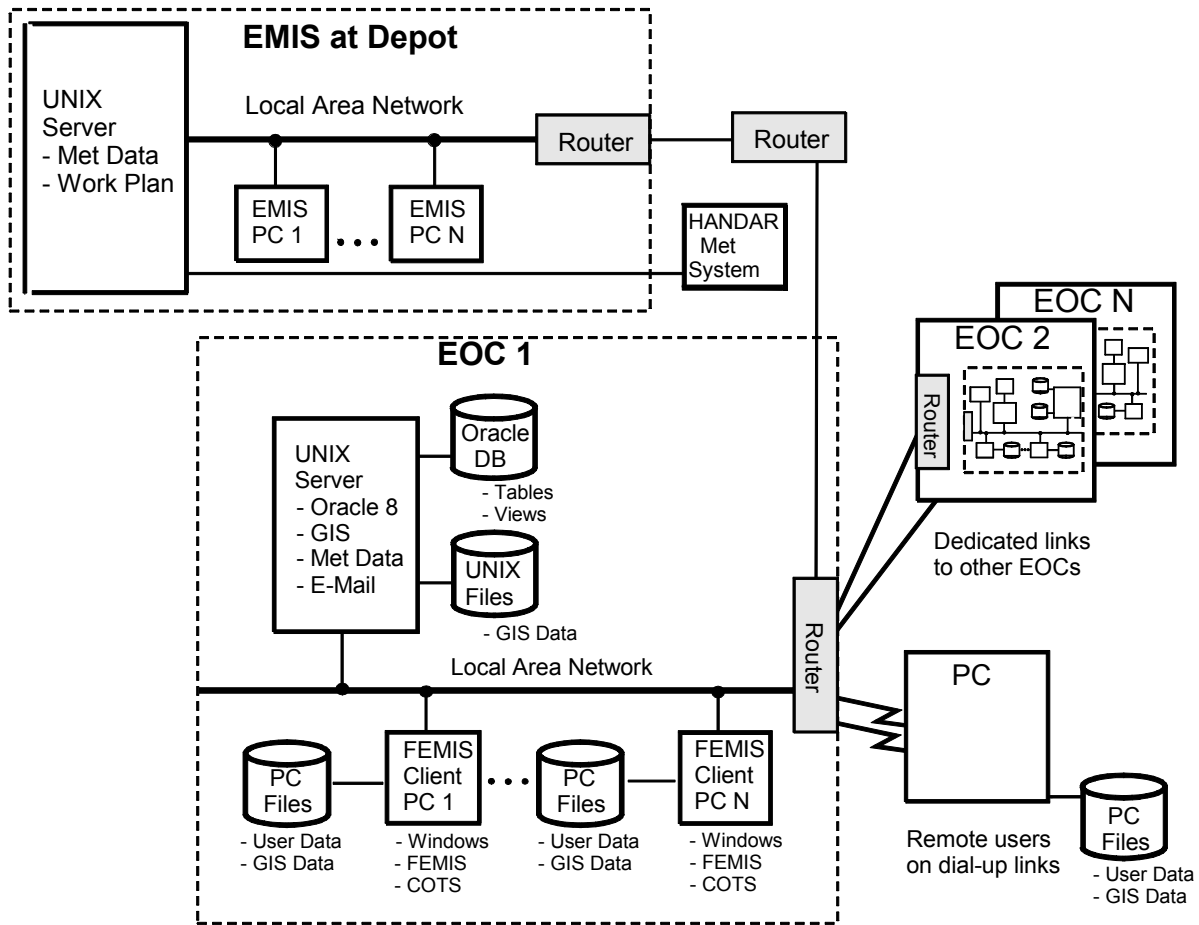


Figure 1.1. Conceptual View of FEMIS

Table 1.1. Types of Relational Data and General Use Description

Data Type	Data Use Description
D2PC Data	Relational data tables used by the dispersion model
Electronic Plan Data	Supporting electronic planning information
Facility Data	Facility, resource, and shelter information
Hazard Data	Supporting multi-hazard planning and operations use
Meteorological Data	Weather conditions and tower information
Personnel Data	Person and organization information and user control data
Population Data	Population information including special populations
Resource Data	Resources and Memoranda of Understanding information
Risk Data	Plumes, wedges, threatened areas, and Protective Action Decisions (PADs)/Protective Action Recommendations (PARs) information
Site Data	CSEPP site information including EOC data
Source Data	Chemical agents, munitions, bunkers, events, and casualties data

Data Type	Data Use Description
Spatial Data	Relational data supporting the GIS
Work Plan Data	Work Plans, Maximum Credible Event (MCE) data, the journal, and D2PC case management data
Zone Data	Emergency planning zones information

## 1.1 Point of Contact

We encourage you to contact us with suggestions or to ask questions. You can contact us by mail, telephone, or E-mail:

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## 1.2 Document Organization

This document is organized into nine sections and four appendices that contain supporting information.

Section 1.0 – Overview – contains an overview for managing the FEMIS data.

Section 2.0 – Resource Documents – lists documents referenced or used as resources for this document.

Section 3.0 – Building the Initial Information – describes how the initial information was compiled and how the relational and spatial data were initially loaded.

Section 4.0 – Managing Relational Data – discusses how the relational data is managed during system operation.

Section 5.0 – Managing Spatial Data – describes how the spatial data is managed during system operation.

Section 6.0 – Managing Exercise Data – discusses how the exercise data is managed.

Section 7.0 – Managing Meteorological (Met) Data – discusses how the real-time meteorological data is managed.

- Section 8.0 – Managing D2PC Model Data – discusses how the D2PC model data is managed. Subsections describe creating, opening, saving, deleting, importing, and exporting a case.
- Section 9.0 – Folder Management and Archiving – discusses external storage, folder data collection, archiving D2PC cases, and archiving limitations.
- Appendix A – Site Survey Form – consists of a Site Survey form example. The site specific survey was used to collect an essential set of site parameters needed to preset the site database.
- Appendix B – FEMIS Database Changes – consists of the Oracle database schema and GIS changes that have been implemented for FEMIS v1.5.3.
- Appendix C – FEMIS Data Dictionary – consists of the FEMIS data dictionary, which is a dynamic listing of the current database.
- Appendix D – Database Data Models – consists of the FEMIS main data model.

## 1.3 Software Products

FEMIS integrates the following COTS software products.

**Table 1.2.** Integrated COTS Software Products

Software Application	Software Company
ArcView GIS	Environmental Systems Research Institute, Inc. (ESRI)
Microsoft Windows NT/2000	Microsoft Corporation
Oracle and Oracle ODBC Driver	Oracle Corporation
Solaris	Sun Microsystems, Inc.

FEMIS integrates the following government-furnished software products.

D2PC (February 2000)	US Army SBCCOM
PARDOS v3.1 (May 1997)	US Army SBCCOM

## 2.0 Resource Documents

*FEMIS Installation Guide* – This document provides instructions for installing and configuring the FEMIS software package.

*FEMIS System Administration Guide* – This document contains a detailed description of the system administration interface.

*Integrated Baseline System (IBS) Data Management Guide, Version 2.1* – This document contains a full description of the data files present in the IBS system.

## 3.0 Building the Initial Information

When FEMIS is installed, information is present in the database to enable the immediate use of the system. For example, the database tables used for validation are preset with the correct values, base maps are present in the spatial data, and some facility data is present. This section describes how this initial information was obtained and loaded into the system as part of the installation. At the present time, most CSEPP sites have been installed and are using FEMIS v1.5 software and databases.

The initial information was grouped into the following three classes:

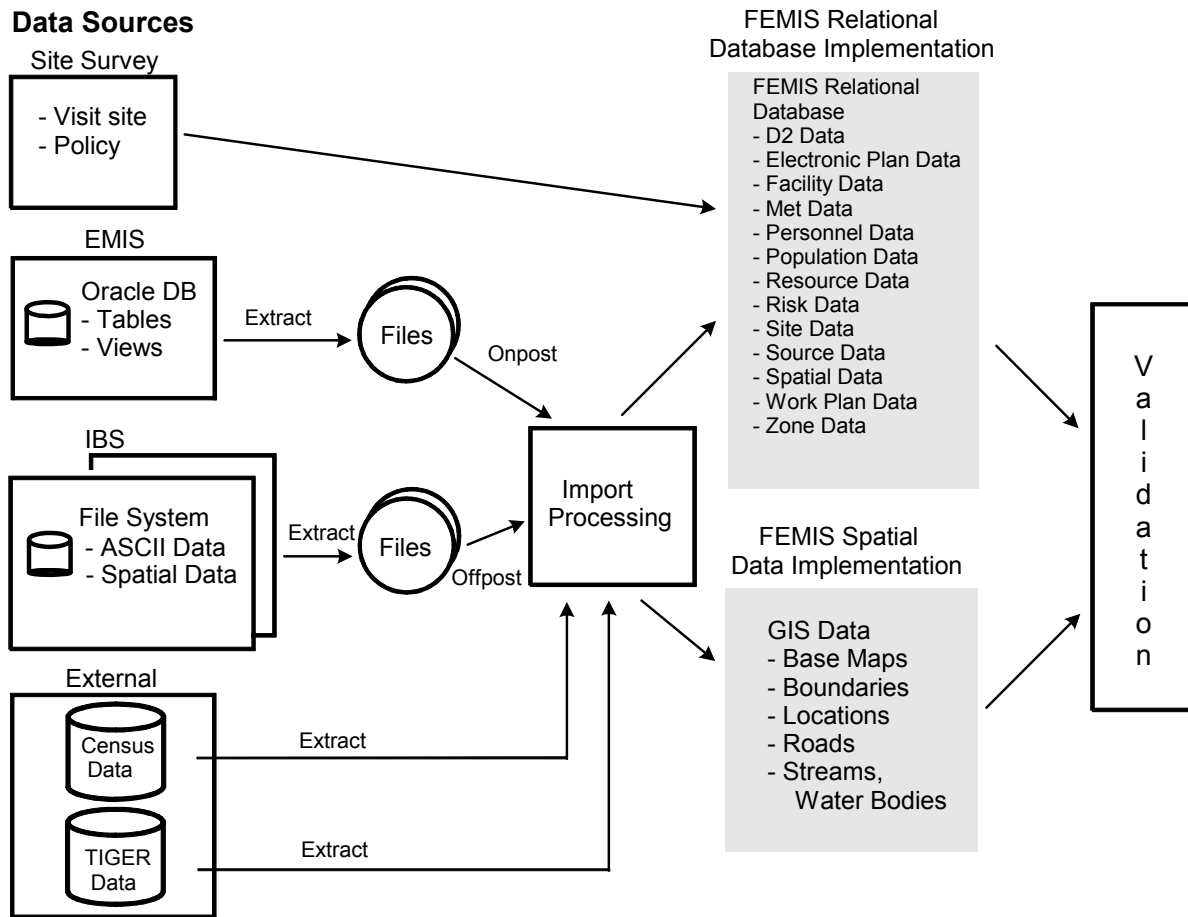
- CSEPP global – EOCs at all sites contained identical information for this class of tables. Examples are the relational tables named `STATE` and `HAZARD_SITE`.
- Site global – All EOCs at a given site contained identical information for this class of tables. Examples are the relational tables named `ZONE` and `ACCIDENT_CLASS`. This data was obtained from existing sources in electronic form or manually entered.
- EOC specific – Each EOC at the site had distinct information for this class of tables. Examples are the relational tables named `FACILITY` and `MEMO_UNDERSTANDING`. Like the site global data, some of this information was available in electronic form and some was gathered and entered manually.

The latter two classes of data prepared for a site were tailored to conditions present at that site. Factors considered were the number and type of EOCs present, the objectives of the site, and the area of interest for map and GIS theme coverage. Another consideration was the amount of information contained in active Emergency Management Information System (EMIS) and Integrated Baseline System (IBS) databases that could be extracted for the FEMIS system.

Figure 3.1 illustrates the general process of data preparation at a high level. The detailed steps to accomplish this are described in the following paragraphs.

EMIS is currently being used by the US Army as the onpost automation system at most CSEPP sites. EMIS has a centralized database using the Oracle DBMS, and it also has a GIS that is used in somewhat the same manner as ArcView GIS is used in FEMIS. Therefore, EMIS is a source for onpost relational data (such as igloos) and spatial information (such as base maps tailored to the site environment).

IBS was used at some CSEPP sites for offpost EOC automation at the county and state levels. The IBS EOCs tended to operate autonomously so each contained information that was unique. The data contained in IBS was in ASCII files and binary files for the spatial information. In general, data was extracted from each IBS system deployed at the site. Then parts of this data were merged to ensure that common information was consistent. IBS was a source for offpost facility, personnel, and resource information.



**Figure 3.1.** General Process of Data Preparation at a High Level

The FEMIS database includes some types of data not present in IBS and EMIS. This type of information was obtained during the Site Survey. Also, the Site Survey was used to validate some of the data captured from IBS and EMIS; more details are provided in Section 3.1, Site Survey.

The extraction and post processing required for relational and spatial data are discussed in Sections 3.2, Building Relational Data and 3.3, Building Spatial Data. In general, each relational table or spatial data file required individualized processing.

Census data and TIGER/Line data provided by the government were important external data sources. As shown in Figure 3.1, subsets of information from these sources were extracted and used for both spatial and relational databases. Section 3.3, Building Spatial Data, discusses how this is accomplished.

The validation step shown in Figure 3.1 was very important. It was accomplished after the spatial and relational databases were created. Even though some validation was done during the import processing, the final validation was needed to ensure consistency between the inter-related tables and files that comprise the FEMIS database.



## 3.1 Site Survey

Although much of the information needed to preset the FEMIS database was available in electronic format, some information was not. Therefore, a means to collect a varied set of parameters that were not available in IBS, EMIS, or the government-furnished external sources was needed. All sites required a common set of parameters obtained from the Site Survey. Even though IBS and EMIS were used at a given site, additional information was required.

The Site Survey provided default and recommended values in many cases. The EOC personnel reviewed the data provided and modify it directly on the form. The electronic Site Survey form used a computer spreadsheet for capturing extensive amounts of data.

An example of a Site Survey is included in Appendix A to indicate the basic information that was needed for FEMIS. Electronic copies of the survey form were sent to each EOC site for completion. When completed, the survey was returned to the development location for analysis of compatibility with other information. An onsite follow up meeting was held at each site to resolve questions and ensure consensus at the site.

## 3.2 Building Relational Data

The relational database in FEMIS is managed by Oracle, a commercial DBMS. The distributed processing features of Oracle are used to produce a multi-server distributed data architecture. Data replication is widely used to provide a local copy of most shared tables. This replication is important because it allows an EOC to operate autonomously in case the links to other EOCs are not operational. Also, performance is enhanced because the shared tables are located on the local database.

The FEMIS relational database is comprised of approximately 150 tables. The FEMIS logical data model describes graphically what information is present and how the data objects are interrelated. This model represents a large collection of general purpose tables; such as GIS and dispersion tables. Appendix B, FEMIS Database Changes, provides the database schema changes that have been implemented to update the database to the current version of FEMIS. Definitions of the database attributes can be found in Appendix C, FEMIS Data Dictionary. A diagram of the FEMIS model is included in Appendix D, Database Data Model.

Based on design efforts and testing results, each relational database table is either local to an EOC or shared with the other EOCs. Data in the local tables can be accessed only by users logged in to that EOC database. The data in shared tables is available to users at all EOCs. Details of data placement are made transparent to the FEMIS users, so the FEMIS database appears to be a single, unified collection of tables. This physical design of the Oracle database is provided as a part of database implementation and can be tailored for CSEPP sites. Instructions about site tailoring are discussed in Section 2.8, Defining the Database Topology, in the *Installation Guide for FEMIS Version 1.5.3*.

Approximately one-half of the tables did not contain any information when the system was installed. These are tables, such as the Situation Summary table, that will contain information about the current conditions at the site. As the system is used, data will accumulate in these tables and become a useful resource. The management of these tables is discussed in Section 4.0, Managing Relational Data.

The remaining tables are preset with data as part of the system installation process. Over the life-cycle of FEMIS, some of the data in this class of tables may require updates after installation, which are discussed in Section 4.0, Managing Relational Data. How preset data was collected and processed to become part of the delivered database is the subject of the remainder of this section.

Tables containing preset information that was universal to all sites are called CSEPP Global tables. During FEMIS development, information was assembled from various sources and loaded into this class of tables. Table 3.1 lists the Oracle tables that are in this class, what type of user interface manages the data in the table (all of these tables are managed by the Data Manager included in the FEMIS application), and comments.

Table 3.2. illustrates the source of the information for the CSEPP Global tables, the filename (if appropriate), the loading strategy, and the contents of the information in the table. A PNNL source means that the information was assembled from various sources available to PNNL. Regarding IEM (Innovative Emergency Management, Inc.) as a source, see Section 3.3.1, Data Sources and Import Processing.

The other two table classes with preset information contain site-specific and EOC-specific data. Table 3.3 lists the tables in these two classes illustrating the table name, what type of user interface manages the data in the table, and comments. See Table 3.4 for details about loading these tables.

### 3.3 Building Spatial Data

FEMIS spatial data contains location information in the form of geographic coordinates of points, lines, and polygons that represent physical features and non-physical area boundaries on the surface of the earth. Within FEMIS, this location information is stored as ArcView GIS themes, which are accessed by the FEMIS application via the ArcView GIS software. Each theme represents a coherent set of similar geographic features (e.g., roads, facility locations, census tract boundaries). FEMIS spatial data also contains attribute information that is associated with the geographic features that make up the themes. These attribute values are stored and maintained in the FEMIS relational database. They are attached to the features within the ArcView GIS themes as required by the FEMIS applications.

Figure 3.1 shows the general approach to building the initial FEMIS spatial and relational databases. Data from various information sources must be processed by the appropriate FEMIS data import software programs to extract the required data elements and place them into the proper data structures for storage in the FEMIS relational and spatial databases. All required attributes associated with both geographic and non-geographic data objects are stored in the FEMIS relational database. The

geographic coordinates of the spatial features, together with selected attributes of those features, are stored as ArcView GIS themes in the FEMIS spatial database.

**Table 3.1.** CSEPP Global Preset FEMIS Tables

Table #	Table Name	User Interface	Comments
1	ACCIDENT_CLASS	DataMgr	
2	ACTIVITY	DataMgr	
3	BUNKER_CONTENT	DataMgr	
4	CHEMICAL_AGENT	DataMgr	
5	CONTROL_POINT	DataMgr	Initial
6	DOSAGE	DataMgr	
7	GOAL	DataMgr	
8	HAZARD_SITE	DataMgr	
9	MEASUREMENT_DEFN	DataMgr	
10	MEASUREMENT_TYPE	DataMgr	
11	MET_PARAMETER	DataMgr	
12	MUNITION	DataMgr	
13	PD_LEVEL	DataMgr	
14	PLAN_DETAIL	DataMgr	Template
15	PLAN_HEADER	DataMgr	Template
16	PRIVILEGE	DataMgr	
16	PROTECTIVE_ACTION	DataMgr	
17	STATE	DataMgr	
19	SYSTEM_PHASE	DataMgr	
20	SYSTEM_STAGE	DataMgr	
21	VAL_LIST	DataMgr	
22	VAL_LIST_DATA	DataMgr	
23	ZONE_TYPE	DataMgr	

**Table 3.2.** Global Preset Database Tables

Table Loaded	Source	Filename	Load Strategy	Contents
ACCIDENT_CLASS	PNNL	None	SQL load using data acquired during development	Validation for accident classes and descriptions
ACTIVITY	PNNL	None	SQL load using data acquired during development	Validation for activity codes and descriptions
BUNKER_CONTENT	EMIS	AGENT_MN.DAT	SQL load using EMIS data	Agents, munitions and quantities per munition

Table Loaded	Source	Filename	Load Strategy	Contents
CHEMICAL_AGENT	PNNL	None	SQL load using data acquired during development	Agent codes and types
CONTROL_POINT	PNNL	None	SQL load using software control points	Control point names and descriptions
DOSAGE	PNNL	None	SQL load using normal D2PC dosages	Dosage levels and descriptions from D2PC model
GOAL	PNNL	None	SQL load with data based on user advisory board	“Save lives, protect property”
HAZARD_SITE	PNNL	None	SQL load using data acquired during development	Compilation of the names, locations, and descriptions for the CSEPP sites
MEASUREMENT_DEFN	PNNL	None	SQL load using data acquired during development	Validation for measurement classes
MEASUREMENT_TYPE	PNNL	None	SQL load using data acquired during development	Validation for measurement types and description
MET_PARAMETER	PNNL	None	SQL load using data acquired during development	Validation for parameter codes and descriptions
MUNITION	PNNL	None	SQL load using normal D2PC munitions	Validation for munitions and descriptions
PD_LEVEL	PNNL	None	SQL load using data acquired during development	Plan level name and number
PLAN_DETAIL	PNNL	None	SQL load using data acquired during development	Plan reference ID; responsible parties; start, finish, and duration times for plan template
PLAN_HEADER	PNNL	None	SQL load with plan data template	Plan reference ID, name, status, and descriptions for initial plan template
PRIVILEGE	PNNL	None	SQL Plus query based on CONTROL_POINT table	Privilege numbers and flags for assigned privileges based on control points
PROTECTIVE_ACTION	PNNL	None	SQL load using data acquired during development	Validation for protective actions and descriptions
STATE	PNNL	None	SQL load using data acquired during development	Validation for state codes and names
SYSTEM_PHASE	PNNL	None	SQL load using data based on user advisory board	Validation for phase names, flags, and descriptions
SYSTEM_STAGE	PNNL	None	SQL load using data based on user advisory board	Validation for modes, phases, and stages
VAL_LIST	PNNL	None	SQL load using data acquired during development	Validation lists the names and descriptions for Visual Basic applications
VAL_LIST_DATA	PNNL	None	SQL load using data acquired during development	Validation lists the data and text
ZONE_TYPE	PNNL	None	SQL load using data acquired during development	Validation for CSEPP zones and descriptions

**Table 3.3.** Site-Specific and EOC-Specific FEMIS Tables

Table #	Table Name	User Interface	Comments
1	AGENCY	Agency UI	
2	BUNKER	GIS	Read only
3	CENSUS_BLOCK	DataMgr	Read only
4	CENSUS_SUBDIVISION	DataMgr	Read only
5	CENSUS_TRACT	DataMgr	Read only
6	COUNTY	DataMgr	
7	DEPARTMENT	Department UI	
8	EMERGENCY_SUPPORT	DataMgr	
9	EOC	DataMgr	
10	EOC_OBJECTIVE	DataMgr	
11	EOC_ZONE	DataMgr	
12	FACILITY	Facility UI	
13	FEMIS_USER	Accounts UI	
14	GEO_OBJECT	DataMgr	Data captured with GIS load, export
15	GIS_LAYER	DataMgr	Data captured with GIS load
16	GIS_LAYER_DEFINITION	DataMgr	
17	MET_TOWER	DataMgr	Compatibility to Met towers onsite
18	NAME_SUBSTITUTION	DataMgr	
19	PA_UNIT	Community UI	
20	PERSON	Personnel UI	
21	POSITION	DataMgr	
22	POSITION_ASSIGNMENT	DataMgr	
23	RESOURCE_CATEGORY	DataMgr	
24	RESOURCE_DEFINITION	Resource Definition UI	
25	RESOURCE_LOCATION	Facility UI	
26	RESOURCE_OWNER	Facility UI	
27	STORED_AGENT	DataMgr	
28	USER_MODE_PRIV	DataMgr	
29	VAL_POSITION	DataMgr	
30	WK_POSITION	DataMgr	
31	ZONE	DataMgr	
32	ZONE_IN_GROUP	DataMgr	
33	ZONE_RISK_GROUP	DataMgr	

**Table 3.4.** Site-Specific and EOC-Specific Preset Database Tables

Table Loaded	Source	Filename	Load Strategy	Contents
AGENCY	IEM	AGENCY_LOOKUP.DAT	SQL load with validated data	Agency codes and their associated agency names
BUNKER	EMIS	GISIGL.DAT (onpost)	SQL load with validated data	Igloo names and codes specific to the site
CENSUS_BLOCK	Census	STF1B tape files	SQL load with census data	State and county FIPS codes and block name
CENSUS_SUBDIVISION	Census	STF1B tape files	SQL load with census data	State and county FIPS codes and subdivision name
CENSUS_TRACT	Census	STF1B tape files	SQL load with census data	State and county FIPS codes and tract name
COUNTY	PNNL	None	SQL load with preset data. Use Site Survey results if different.	State and county FIPS codes and county name
DEPARTMENT	PNNL and Site Survey	None	SQL load with Dept_Code set to Agency_Code or Site Survey	Department and agency codes. The department code is generated.
EMERGENCY_SUPPORT	IEM and Site Survey	EF.DAT	SQL load with preset data. Use Site Survey results if different.	Emergency support functions and descriptions
EOC	IEM and Site Survey	None	SQL load with preset data. Use Site Survey results if different.	EOC names, types, number, and description
EOC_OBJECTIVE	Site Survey	None	SQL load with data from Site Survey	EOC name; notify, decision and goal times; and descriptions and dose levels
EOC_ZONE	PNNL	None	Preloaded list of zones associated with an EOC. Use Site Survey results if different.	EOC and zone names
FACILITY	IEM and Site Survey	FACIL.DAT	See Facility Note	Facility names, capacities, and descriptions
FEMIS_USER	Site Survey	None	SQL load with data from Site Survey	User code with encrypted password, account status
GEO_OBJECT	PNNL	None	SQL load with preset data. See GEO_OBJECT Note.	Data for all spatial objects
GIS_LAYER	PNNL	None	SQL load with preset data	Data for existing themes
GIS_LAYER_DEFINITION	PNNL	None	SQL load with preset data	Data for defining themes

Table Loaded	Source	Filename	Load Strategy	Contents
MET_TOWER	Site Survey	METTOWER.DAT	SQL load with data from the Site Survey	Names and locations of Met towers
NAME_SUBSTITUTION	PNNL	None	SQL load with preset data	Standard case naming
PA_UNIT	Site Survey	None	SQL Plus query based on zone and facility tables	Protective action units, type, types names, and zone or facility name
PERSON	IEM	PERSON.DAT	See Person Note	Person reference number, name, and address
POSITION	Site Survey	None	SQL load with data from Site Survey	Position code with address, phone, and description
POSITION_ASSIGNMENT	Site Survey	None	SQL load with data from Site Survey	EOC position that can be assigned to a specify person
RESOURCE_CATEGORY	Site Survey	RESOURCE.DAT	SQL load with data from Site Survey	The category and its description
RESOURCE_DEFINITION	Site Survey	RESOURCE.DAT	SQL load with data from Site Survey	Resource reference number, name, and description
RESOURCE_LOCATION	Site Survey	None	SQL Plus query based on RESOURCE_FACILITY table	Facility where the resource is located
RESOURCE_OWNER	Site Survey	None	SQL load with data from Site Survey	Agency that controls the resource
STORED_AGENT	EMIS	GISIGL.DAT	SQL load with validated data	Bunker name, agent code, and munition type
USER_MODE_PRIV	Site Survey	None	SQL Plus query based on tables PERSON, PRIVILEGE, and SYSTEM_MODE	Control point names, privilege numbers, user codes, and mode names
VAL_POSITION	Site Survey	VAL_POS.DAT	SQL load with preset data. Use Site Survey results if different	Position codes and names
WK_POSITION	Site Survey	POSITION_LOOKUP.DAT	SQL load with validated data	Agency, department, and title of position
ZONE	IEM	Spatial data files	SQL load with validated data	Zone name and type
ZONE_IN_GROUP	Site Survey	None	SQL load with data from Site Survey	List of zones in risk groups
ZONE_RISK_GROUP	Site Survey	None	SQL load with data from Site Survey	Name of risk groups

**Facility Note:** A temporary table, T\_FACILITY is created, loaded, and updated with the data in FACIL.DAT. The data load is completed when the data is copied from the T\_FACILITY table to the facility table. Updates from the Site Survey will be included.

Table Loaded	Source	Filename	Load Strategy	Contents
<p><b>GEO_OBJECT Note:</b> Since the GEO_OBJECT table data represents geographical coordinates for many objects represented in the relational portions of the database, it has several different SQL Loader control scripts which load data into the table. Examples include the facilities from each EOC, igloos, zones, and counties.</p> <p><b>Person Note:</b> Two temporary tables, T_PERSON and T_AGENCY are created, loaded, and updated with the data from PERSON.DAT. The data load is completed when the data is copied from the T_PERSON table to the person table. Updates from the Site Survey will be included.</p>				

### 3.3.1 Data Sources and Import Processing

The four major sources of FEMIS spatial data are discussed below.

- EMIS (Emergency Management Information System).** EMIS was developed for the US Army as an interim onpost emergency management system. EMIS stores and manages spatial data and related attributes for onpost geographic features, model results, and raster image background maps. The attribute information is stored in Oracle relational database tables or ASCII text files.
- IEM Data Upgrades.** Over the course of several FEMIS version upgrades, updated background image maps and vector themes have been assembled by IEM and added to the FEMIS spatial database. These themes are in the form of ArcView shapefiles and TIFF format image files of the area surrounding a hazard site. The vector themes are typically US Bureau of the Census TIGER/Line data files that contain detailed location and attribute information for a variety of physical and non-physical features, such as roads, railroads, streams and water bodies, facilities, landmarks, state and county boundaries, census unit boundaries, and other political and administrative boundaries. Other vector coverages such as contour lines and landcover classifications are provided from other sources, as detailed in IEM’s site-specific documentation. USGS (United States Geological Survey) geo-registered and tiled raster maps at up to four different scales (1:24,000, 1:100,000, 1:250,000, 1:500,000, and 1:1 million) are the major source of the updated background image maps.
- Census Statistical Data.** The US Bureau of the Census provides statistical census data files that contain demographic information from the 1990 decennial census, unless otherwise specified. This data consists of large ASCII files, which contain population, family, and household counts within various demographic groupings (i.e., by age, sex, race, household type, income, and other social and economic factors). The information is reported at several geographic levels (e.g., county, subdivision, census tract, block group, and block). Selected portions of this data are required by FEMIS applications and must be extracted and attached as attributes to the corresponding TIGER/Line census area polygons.
- Site Configuration Data.** Some spatial data related to planning decisions made at the site (e.g., accident-based planning category boundaries) may not be available from EMIS or any other existing data system. This data must be obtained directly from site personnel and must be entered into ASCII files prior to FEMIS import processing.



The FEMIS spatial data themes are listed and characterized in Table 3.5. They can be divided into three categories as discussed below: static spatial datasets, dynamic spatial datasets, and model-related spatial datasets.

1. Static spatial datasets change infrequently and are managed and controlled by your Database Administrator. Users cannot modify the spatial information contained in these datasets. Examples of static spatial datasets are roads, census blocks, and emergency planning zone boundaries. All of these themes must be initially loaded into the FEMIS spatial database.
2. Dynamic spatial datasets are the themes that can be created and/or modified by users from within certain FEMIS modules. Dynamic themes include facilities, user defined points, traffic control points, sirens, igloos, Met towers, and user defined threat areas.
  - The Facilities theme is initially loaded with the locations of facilities that are known to be of interest for emergency planning purposes. Users can then add other facilities to this theme through the FEMIS Facilities interface.
  - User Defined Points are other geographic point locations that users may wish to include as reference points for locating a hypothetical or real event or for other purposes. User defined points data optionally can be initially loaded into the FEMIS database. Users can then add other user defined points to this theme or create other user-defined themes through the FEMIS User Defined Points interface.
  - The Traffic Control Points theme is initially loaded with road and street intersections and other locations where it is expected that roadblocks or other traffic/access control mechanisms would be applied in an emergency. Users can then add other traffic control points through the FEMIS Traffic Control Points interface.
  - The Sirens theme is initially loaded with locational and attribute information on emergency warning sirens. Users can then add other siren locations through the FEMIS Sirens interface.
  - The Igloo theme is initially loaded with locational and attribute information on igloos. Users can then add other igloo locations through the FEMIS Igloos interface.
  - The Met Tower theme is initially loaded with locational and attribute information on Met towers. Users can then add other Met tower locations through the FEMIS Met Towers interface.
  - User defined threat areas and D2PC plume-based wedges are not initially loaded into the FEMIS database. They are defined and generated through the FEMIS Threat Area interface.

**Table 3.5. Spatial Data Theme Descriptions**

<b>Generic Theme (Layer) Description</b>	<b>Data Source</b>	<b>User Directory</b>	<b>Filename</b>	<b>Data Type</b>	<b>User Modify</b>	<b>FEMIS Object<sup>(a)</sup></b>	<b>Number of Themes</b>
Facilities	FEMIS App	FACILITY	FACILITY	Vector - Point	Yes	Yes	1
D2PC Plume (Dosage)	FEMIS App	D2_<eoc_code>	D<case_id(7)>	Vector - Polygon	Yes	Yes	1 per case per EOC <sup>(b)</sup>
D2PC Plume (Concentration)	FEMIS App	D2_<eoc_code>	K<case_id(7)>	Vector - Polygon	Yes	Yes	1 per case per EOC <sup>(b)</sup>
Threat Area	FEMIS App	D2_<eoc_code>	W<case_id(7)>	Vector - Polygon	Yes	Yes	1 per case per EOC <sup>(b)</sup>
Census Blocks	IEM	CEDBLOCK	<site_code>_TB	Vector - Polygon	No	No	1
County Boundaries	IEM	BOUNDARIES	<site_code>_SC	Vector - Polygon	No	Yes	1
Accident-Based Planning Categories	Site Configuration	ABPC	<site_code>_PC	Vector - Polygon	No	Yes	1
Igloos (point)	Site Configuration	IGLOO_P	IGLOO_P	Vector - Point	Yes	Yes	1
Emergency Planning Zones	EMIS	ZONE	<site_code>_EZ	Vector - Polygon	No	Yes	1
Chemical Limited Area	EMIS	ZONE	<site_code>_DEP	Vector - Polygon	No	No	1
Traffic Control Points	FEMIS App	TCP	TCP	Vector - Point	Yes	Yes	1
User Defined Points	FEMIS App	KNOWN_P	KNOWN_P	Vector - Point	Yes	Yes	1
Met Towers	FEMIS App	METTOWER	METTOWER	Vector - Point	Yes	Yes	1
Sirens	FEMIS App	SIREN	SIREN	Vector - Point	Yes	Yes	1
Administrative Boundaries	IEM	ADMINBND	<site_code>_AB	Vector - Polygon	No	No	1
Detailed Roads	IEM	ROADALL	<county_code>_RA	Vector - Line	No	No	1 per county
Major Roads	IEM	ROADMAJ	<site_code>_RM	Vector - Line	No	No	1
Railroads	IEM	RAILROAD	<site_code>_RR	Vector - Line	No	No	1
Streams, Water Bodies	IEM	STREAM	<site_code>_ST	Vector - Line	No	No	1
Elevation Contours	IEM	CONTOUR	<site_code>c <interval(m)>	Vector - Line	No	No	1 or more
Image Maps	IEM	IMAGES	<site_code><scale><tile>	Image	No	No	1 or more per scale
(a) "Yes" contains entries in the GEO_OBJECT table to link spatial and relational data.							
(b) D2PC and Threat Area themes are temporary themes that are created in and removed from the GIS as required.							

3. Model-related spatial datasets are created by the hazard models for each model case that is run. These themes are created and stored on the user's PC. Data on these model-related themes are also stored in the relational database to facilitate access by other users. These themes are generated entirely by the FEMIS software under the user's control and are thus not initially loaded.

The following sections briefly discuss typical data sources and import processing for each of the FEMIS spatial themes that must be initially loaded. Management of spatial data, after it has been initially loaded, is the responsibility of the site.

### **3.3.1.1 Facilities**

Facility locations and attributes from FEMIS v1.5 are copied to the v1.5.3 RDBMS using SQL scripts during the v1.5.3 installation. As with all FEMIS dynamic themes, the facility ArcView shapefile will be generated when the FEMIS GIS is initially launched from FEMIS. The FEMIS application may be used to add, delete, or edit the Facilities theme, which automatically updates the shapefile and RDBMS.

### **3.3.1.2 D2PC Plume Themes**

D2PC Plume (Dosage and Concentration) themes and plume-based wedge themes are dynamic model-related themes generated within FEMIS. They are based on output from the D2PC model. D2PC cases may be imported from IBS or EMIS, or they may be created by running D2PC from within FEMIS.

### **3.3.1.3 Census Blocks**

The Census Block theme contains 1997 Census TIGER/Line census block boundaries and attributes are stored in the form of an ArcView shapefile.

### **3.3.1.4 County Boundaries**

The County Boundary theme contains 1997 Census TIGER/Line census block boundaries and attributes are stored in the form of an ArcView shapefile.

The general hazard functionality allows non-CSEPP based general hazard "zones". For most of the CSEPP sites, the county boundary layer was used as this general hazard "zone" layer. No updates to the County Boundary theme are needed.

### **3.3.1.5 Igloos**

Igloo locations and attributes from FEMIS v1.5 are copied to the v1.5.3 RDBMS using SQL scripts during the v1.5.3 installation. As with all FEMIS dynamic themes, the igloo ArcView shapefile will be generated when the FEMIS GIS is initially launched from FEMIS. The FEMIS application may be used to add, delete, or edit the Igloo theme, which automatically updates the shapefile and RDBMS. This file can be directly loaded as a point theme into ArcView GIS.

### **3.3.1.6 Emergency Planning Zones**

The Emergency Planning Zones boundary theme contains the CSEPP Emergency Planning Zone boundaries for your site that are stored in the form of an ArcView shapefile.

### **3.3.1.7 Depot Zones (Chemical Limited Area)**

At a minimum, the Depot Zones theme will contain the Chemical Limited Area (CLA) boundary. For some CSEPP sites, the Depot Zones theme may also contain other onpost zones, sub-zones, or other designated non-overlapping areas within the depot boundary. The CLA and any other onpost zone boundary data to be included are obtained from EMIS text files, imported into an ARC/INFO coverage, and then converted to shapefiles which can be directly loaded into ArcView GIS.

### **3.3.1.8 Traffic Control Points**

Existing Traffic Control Point Locations and attributes from FEMIS v1.5 are copied to the v1.5.3 RDBMS using SQL scripts during the v1.5.3 installation. As with all FEMIS dynamic themes, the traffic control point ArcView shapefile will be generated when the FEMIS GIS is initially launched from FEMIS. The FEMIS application may be used to add, delete, or edit the Traffic Control Point theme, which automatically updates the shapefile and RDBMS. This file can be directly loaded as a point theme into ArcView GIS.

### **3.3.1.9 User Defined Points**

User Defined Point locations normally are not initially loaded into a FEMIS database unless the site desires specific point information that does not fit the data type of any of the other predefined FEMIS point themes. Existing User Defined locations and attributes from FEMIS v1.5 are copied to the v1.5.3 RDBMS using SQL scripts during the v1.5.3 installation. As with all FEMIS dynamic themes, the user defined ArcView shapefile will be generated when the FEMIS GIS is initially launched from FEMIS. The FEMIS application may be used to add, edit, or delete the User Defined theme, which automatically updates the shapefile and RDBMS. This file can be directly loaded as a point theme into ArcView GIS.

### **3.3.1.10 Met Towers**

Existing Met tower locations and attributes from FEMIS v1.5 are copied to the v1.5.3 RDBMS using SQL scripts during the v1.5.3 installation. As with all FEMIS dynamic themes, the Met tower ArcView shapefile will be generated when the FEMIS GIS is initially launched from FEMIS. The FEMIS application may be used to add, delete, or edit the Met Tower theme, which automatically updates the shapefile and RDBMS. This file can be directly loaded as a point theme into ArcView GIS.

### **3.3.1.11 Sirens**

Existing siren locations and attributes from FEMIS v1.5 are copied to the v1.5.3 RDBMS using SQL scripts during the v1.5.3 installation. As with all FEMIS dynamic themes, the siren ArcView shapefile will be generated when the FEMIS GIS is initially launched from FEMIS. The FEMIS application may be used to add, delete, or edit the Siren theme, which automatically updates the shapefile and RDBMS. This file can be directly loaded as a point theme into ArcView GIS.

### **3.3.1.12 Administrative Boundaries**

Data on Administrative Boundaries (e.g., national forests, state parks, Native American reservations) are provided by 1997 Census TIGER/Line data in the form of an ArcView shapefile.

### **3.3.1.13 Road Themes (Detailed, Major)**

The detailed and major Roads themes are provided by 1997 Census TIGER/Line data in the form of ArcView shapefiles.

### **3.3.1.14 Railroads**

The Railroads theme is provided by 1997 Census TIGER/Line data in the form of an ArcView shapefile.

### **3.3.1.15 Streams and Water Bodies**

The Streams and Water Bodies themes are provided by 1997 Census TIGER/Line data in the form of ArcView shapefiles.

### **3.3.1.16 Elevation Contours**

The Elevation Contour theme was generated from USGS 3-arc-second digital elevation model (DEM) data and stored in the form of an ArcView shapefile.

### **3.3.1.17 Image Maps**

Background Image Maps of the area surrounding the hazard site were obtained from USGS maps or other sources. Some of these image files have been added to the spatial database or updated by one or more IEM FEMIS GIS upgrades. Images at up to five different scales (1:24,000, 1:100,000, 1:250,000, 1:500,000, and 1:1 million) are incorporated into the FEMIS spatial database.

### **3.3.1.18 Other Themes**

Other spatial data themes may be incorporated into a site-specific spatial database as required by the site. These themes may include (but are not limited to) interstate highways, interstate exits, populated

places, place name boundaries, emergency route alerts, fire district boundaries, daytime population centroids, and nighttime population centroids. The procedures used to prepare and import these datasets into ArcView GIS vary depending upon the source and format of the original data.

### 3.3.2 TIGER/Line Data

The TIGER/Line files, available on a CD, contain coordinates of points, lines, and polygons that represent physical features (e.g., roads, streams and water bodies, landmarks) and non-physical boundaries (e.g., states and counties, 1990 census tracts and blocks, state parks). The files also contain attribute information (e.g., feature name, feature type, census unit identifier) associated with each point, line, and polygon feature. The attribute information can be used by the ARC/INFO GIS software to select individual features by name or to select a group of features by feature type (e.g., interstate highways). The TIGER/Line files also contain topological information (left and right area identifiers for a line segment) that allows ARC/INFO to construct polygons and to link the polygon areas to their associated arcs, label points, and area attributes. TIGER/Line files do not contain statistical census demographic data.

Each TIGER/Line dataset represents one county in a given state and may contain up to 12 different record (file) types. Some of the record types are optional, and thus not all county datasets have all 12 files. The format and content of these 12 file types are documented in the *Technical Documentation for TIGER/Line Census Files, 1990* (US Department of Commerce, Bureau of the Census, Washington, D.C., 1991).

ARC/INFO provides two commands that can be used to convert TIGER/Line data to ARC coverages and associated INFO attribute files. The TIGERARC command performs the basic conversion of point, line, and attribute data and completes the conversion rather quickly (usually 3 to 5 minutes). The TIGERTOOL command performs a comprehensive conversion using a macro supplied with ARC/INFO, versions 6.0 and higher. TIGERTOOL runs TIGERARC and also builds the line and polygon coverages, relates those coverages to the Info files that contain the various attributes associated with the geographic objects, and checks for and reports detectable errors or inconsistencies in the data. TIGERTOOL takes approximately 15 to 20 minutes to complete for a typical county dataset.

The syntax for the TIGERTOOL command for use within FEMIS is as follows:

```
TIGERTOOL <tiger_line_file_prefix> <out_cover_prefix> VTD
```

Each TIGER/Line county dataset contains a set of files with names that are identical except for the last character in the filename. The second item in the command line, <tiger\_line\_file\_prefix>, should be set to this common part of the filename. The last character appended to the common filename indicates the file type. The 12 file types are described via an example dataset in the following paragraphs. Similarly, <out\_cover\_prefix> is the filename prefix to be used to identify the output coverages to be created by TIGERTOOL. The VTD option instructs TIGERTOOL to extract and store the Voting Tabulation District boundaries.

The set of TIGER/Line files for Gilliam County, Oregon (State FIPS Code 41, County FIPS Code 021) is given below as an example.

**Note:** The filenames contain a common prefix (`tgr41021.f4`) followed by a single character denoting the file type.

```
tgr41021.f41 - Type 1: Basic data records
tgr41021.f42 - Type 2: Shape coordinate points
tgr41021.f43 - Type 3: Additional census geographic area codes
tgr41021.f44 - Type 4: Index to alternate feature names
tgr41021.f45 - Type 5: Feature name list
tgr41021.f47 - Type 7: Landmark features
tgr41021.f48 - Type 8: Area landmarks
tgr41021.f4a - Type A: Additional polygon geographic area codes
tgr41021.f4i - Type I: Area boundaries
tgr41021.f4p - Type P: Polygon locations (internal points)
tgr41021.f4r - Type R: Record number ranges
```

There was no Type 6 data file (additional address range and zip code information) available for Gilliam County. Because the TIGERTOOL user documentation suggests that Type 4, 5, and 6 files should not be converted if the information in them is not needed, these files can be renamed so TIGERTOOL will not find them under the input file prefix `tgr41021.f4`.

TIGERTOOL creates three output coverages:

1. `<outcover_prefix>1` – contains arc (line) coordinates and polygon topology extracted from the basic data records (Type 1) and the shape coordinate points (Type 2)
2. `<outcover_prefix>2` – point coverage containing polygon label points from Type P records
3. `<outcover_prefix>3` – point coverage containing point landmark features from Type 7 records.

In addition, TIGERTOOL creates a collection of ARC/INFO attribute files that contain the attributes of points, lines, and polygons contained in the three GIS coverages. TIGERTOOL also builds a set of “relates” (relational joins) to link these Info attribute files to the arc attribute table (AAT) and point/polygon attribute table (PAT) files of the coverages. These “relate” definitions are named and stored in a file named `<outcover_prefix>.rel` and can be activated in ARC/INFO by using the `RELATE RESTORE <file_name>` command. Items (columns) in the related attribute files can then be accessed in ARC/INFO commands as though they were an item in the PAT or AAT file by using the syntax `<relate_name>///<item_name>`. The attribute files created by TIGERTOOL and their associated relate names are listed below.

1. `<outcover_prefix>1.acode` – arc attributes from Type 1 records. Relate name: `ACODE`.
2. `<outcover_prefix>1.type3` – additional census geographic area codes, including voter tabulation districts, from Type 3 records. Relate name: `TYPE3`.

3. <outcover\_prefix>1.pcode – polygon (area) attributes from Type 1 records. Relate name: PCODE.
4. <outcover\_prefix>2.typea – additional polygon geographic area codes, including congressional districts, from Type A records. Type A files also have reserved placeholders for possible future storage of school district boundaries, traffic analysis zones, and urbanized area codes. Relate name: ACODE.
5. <outcover\_prefix>2.xcode – polygon label points from Type P records. Relate name: XCODE.
6. <outcover\_prefix>2.typei – area boundary identifiers from Type I records (contains both Type 1 record numbers and Type P polygon identifiers). Links Type 1 line segment records to the corresponding Type P polygon records (left and right). Relate name: TYPE1.
7. <outcover\_prefix>3.xcode – attributes of point and area landmark features and longitude/latitude coordinates of point landmarks from Type 7 records. Relate name: TYPE7.
8. <outcover\_prefix>3.type8 – polygon identifiers for area landmarks from Type 8 records. Relate name: TYPE8.

These ARC/INFO attribute files and the predefined relates allow users of Arcplot (ARC/INFO map display subsystem) to select and display a specific theme (e.g., all hydrographic features) or a subset of features (e.g., primary and secondary divided highways) by relating the coverage to the Census Feature Class Code (CFCC) attribute and selecting CFCC values that correspond to the desired feature types. Individual features (e.g., Interstate Highway 84) can be selected by feature name. Polygons of a specific type (e.g., census blocks boundaries) can be displayed by selecting all the line segments for which the left area identifier (e.g., census block identifier) differs from the right area identifier. Once the user has selected a group of similar features, these features can be extracted into an ARC/INFO coverage and then exported to an ArcView GIS theme for use within FEMIS.



## 4.0 Managing Relational Data

The relational database contains approximately 150 tables that hold information used by the application software. As described in Section 3.2, Building Relational Data, some of the tables are preloaded with records before the system is deployed. As the system is used, new information is added and some of the initial information may be modified or deleted.

The FEMIS application software, including the models, is largely responsible for managing the information in the relational database. This section discusses the default information in the database and then describes the general-purpose query tool that allows users to browse and modify data.

In the FEMIS system, all data access protection is performed by means of user interface windows. The procedures for giving FEMIS users the correct privileges to perform their tasks are provided in the System Administration topic of FEMIS Help.

Security was improved with the v1.4.6 relational database. The FEMIS software uses a database schema that has limited privileges so it is no longer possible to accidentally change the structure of a table or delete a table. Also available, is the capability to change database passwords. This additional security is transparent to users of FEMIS. Section 11.2, Database Security, in the *System Administration Guide for FEMIS Version 1.5.3* has more details on security features.

### 4.1 Site Default Information and Considerations

When the database for a new CSEPP site was created, a set of default information was defined that met the specialized requirements of the site. This information was solicited from the EOC users at the site and was loaded into the `EOC_Objective` table for each EOC.

The census data is gathered by asking people in residential areas how many people live at that residence. Since most people in a residence are more likely to be at home during the night than the day, these counts best define night time numbers. Also, since many families have routines that are structured around the 5-day workweek, the counts are good indicators of weekday populations while not accounting for the whereabouts of people on weekends or special events. Based on these considerations, the normal condition for population information is weekday, nighttime conditions.

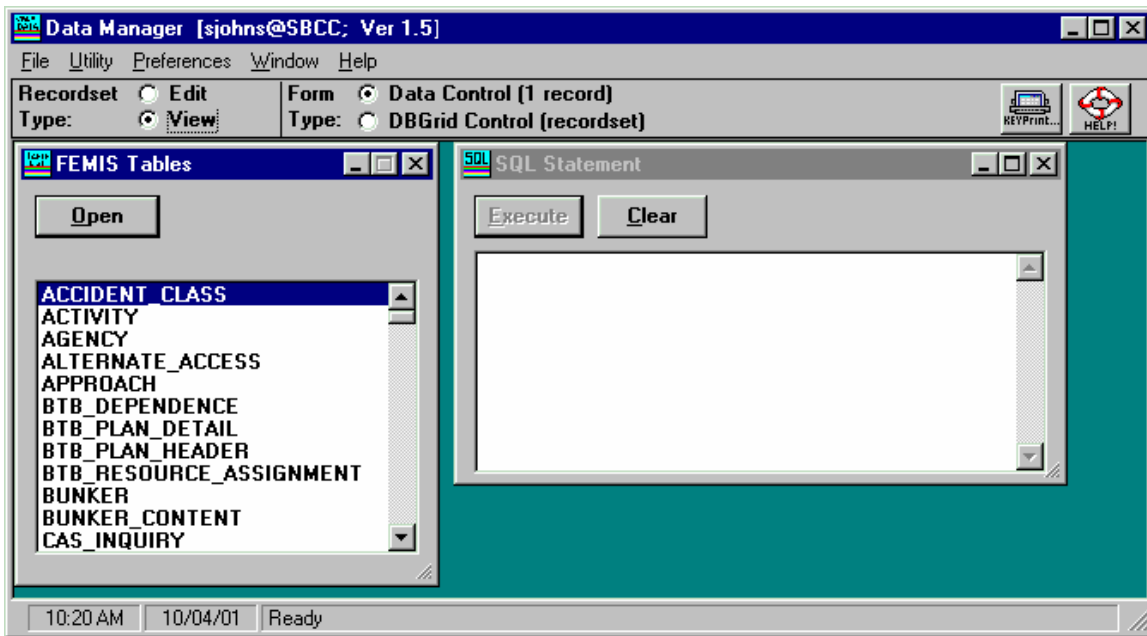
### 4.2 Data Manager

This FEMIS application has many user interface windows for accessing and managing relational data. The online help function provides a convenient user guide. Many of the database tables have no formal user window and rely on a general-purpose tool to manage the records in them. This section describes how this tool is used and provides guidelines to manage the relational database while FEMIS is in use.

The Data Manager is activated by clicking on `fdatamgr.exe`, which is located under the `FEMIS` directory on the `<FEMIS drive>`. If FEMIS is running, the Data Manager displays. If FEMIS has not been started, the FEMIS login window displays and you must enter a valid username and password for the EOC database that will be accessed. The Workbench displays first and then the Data Manager.

The appearance of the window depends on the privileges of the user. For the full function version shown below, `Edit` privilege for `System Administration` is required. A view only version of the window is displayed if the user has at least `View` privilege for `System Administration`. The view only window does not include the `Recordset Type: Edit` button or the `SQL Statement` window. Other differences depend on which `Form Type:` is selected prior to opening one of the FEMIS tables.

Figure 4.1. Data Manager Window



The FEMIS Tables window displays a list of all tables in the relational database that are appropriate for the current default EOC. Different tables are listed depending on whether you selected `Edit` or `View` mode.

The SQL Statement window on the right may be used to formulate a user query. The `Execute` button will send the query to the database. The `Clear` button will clear the SQL Statement text box.

**Note:** The `Close` option from the control box or the `x` button on the window will minimize the SQL Statement window rather than closing it.

Two options exist for viewing the data in a table: `Data Control` or `DBGrid Control`. If you select the `Form Type: Data Control (1 record)`, the data will be displayed one record at a time with a

Data Control bar to move from record to record. If you select the Form Type: DBGrid Control (recordset), the data will be displayed in a spreadsheet format with scroll bars.

**Note:** The only time records can be edited are when you have selected Recordset Type: Edit and Form Type: Data Control and opened the table using the FEMIS Tables window. Otherwise all data can only be viewed (read-only).

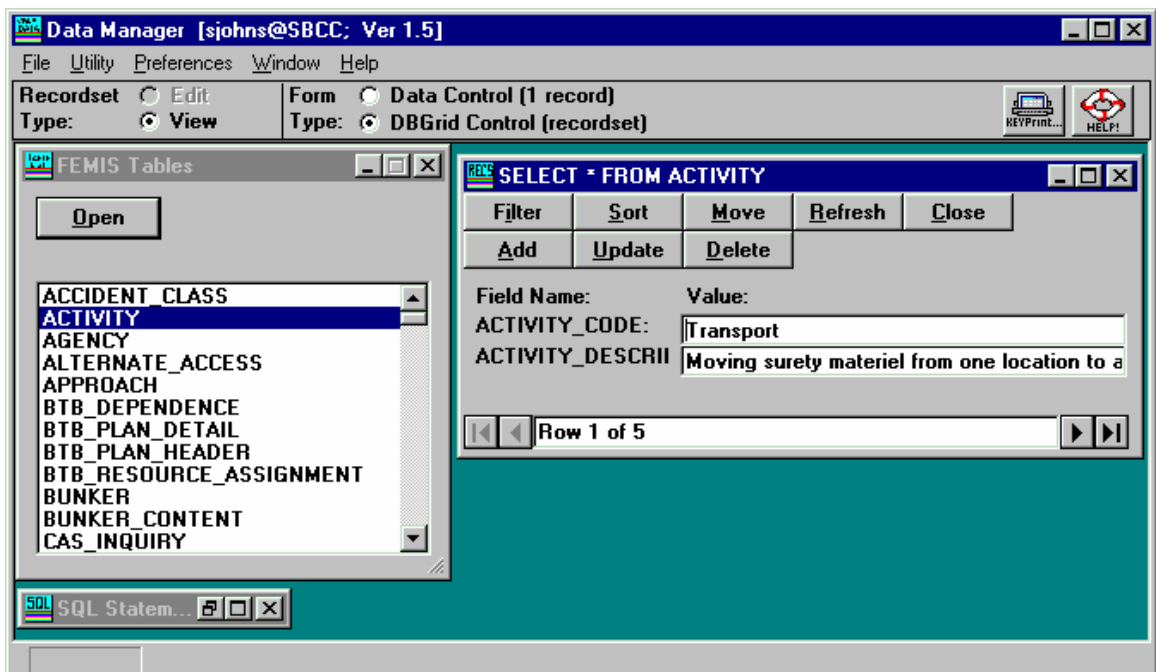
**Note:** The Data Control window will not be able to add or modify data for the following tables: SHARED\_REPORT, GEO\_OBJECT, VIEWMARK\_DEF and FEMIS\_USER. These tables have CLOBs (Character Large Objects) fields and can only be edited using the SQL Statement window.

## 4.2.1 Data Control

The Form Type: Data Control, which presents a single record at a time for viewing or editing (if in Edit mode), contains some additional command buttons. The Add, Update, and Delete buttons (available only in Edit mode) allow editing of the current record in the Data Control window. The Filter, Sort, and Move buttons provide search and organization options for viewing the data regardless of mode. The Refresh button will requery the database and all previous sorting and filtering activities will be cleared. The Close button will close the window and prompt you to commit changes, if any were made.

**Note:** The Data Control window will display the first 40 fields of a table. The rest of the fields can be viewed in the DBGrid Control window and edited using the SQL Statement Window.

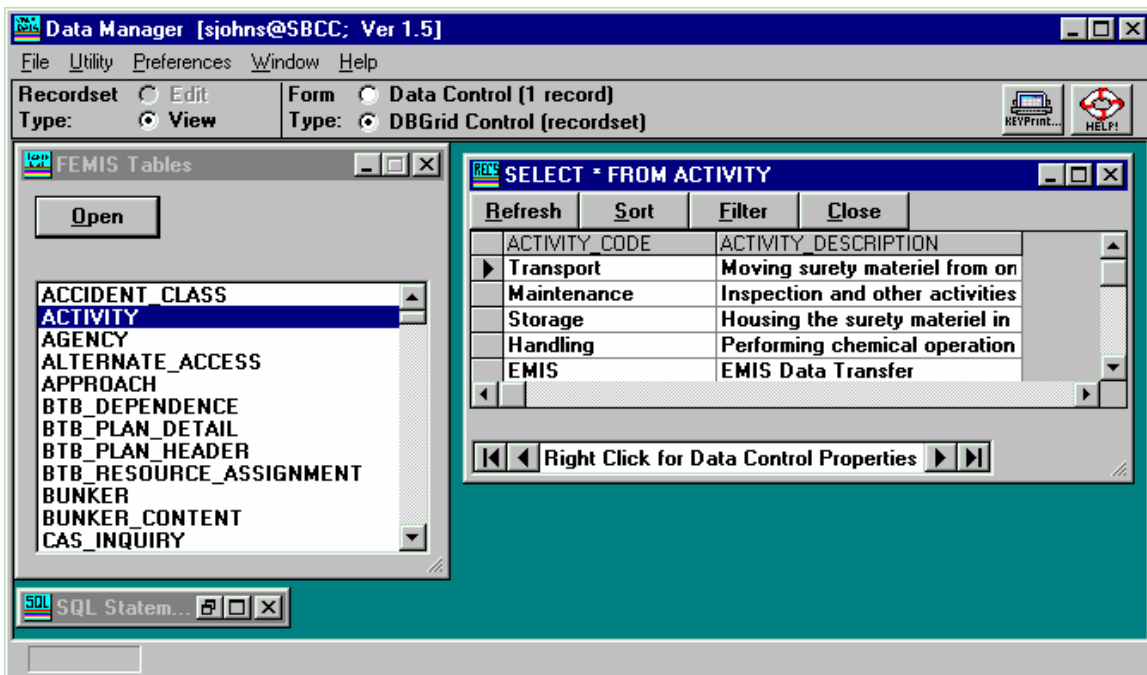
Figure 4.2. Data Control on the Data Manager Window



## 4.2.2 DBGrid Control

To view multiple records, select the `DBGrid Control` radio button and select a table from the FEMIS Tables list. You can double click on a table name, or highlight it and then click on the `Open` button. This will display a read-only window of the selected table and display it in a multi-record grid display. If the record is longer than the width of the window or there are more records available than can be shown, scroll bars are presented to view all the records and fields. The `Refresh` button will requery the database and all previous sorting and filtering activities will be cleared. The `Sort` and `Filter` buttons are search and organization options for viewing the records in the table. The `Close` button will close the window. The control bar at the bottom of the window can be used to quickly move through large numbers of records or to view current data control properties. These properties are not editable regardless of mode.

Figure 4.3. DBGrid Control on the Data Manager Window



## 4.2.3 Other Data Manager Functions

To obtain a list of any errors you may have encountered during your session, click on `Errors` under the `File` menu. You can click on `File` → `Properties` to view properties of the `DBEngine` or `Workspace` and `File` → `Print` will display `KeyPrint`. The `Print` button also provides this capability.

The `Utility` menu provides various options for closing windows.

The `Show Performance Numbers` option under the `Preferences` menu allows you to turn on/off the display of statistics on the opening/loading of tables. This option only applies when the `Form Type: Data Control` radio button is selected. It is not available when the `Form Type: DBGrid Control` option is selected.

## 4.3 Managing Relational Data

This section describes several considerations and provides some guidelines that will help you manage the relational database. Topics included are database integrity, testing modifications, managing exercise data, archiving data, and backup and recovery of the database.

### 4.3.1 Database Integrity

The information in the relational database has complex inter-relationships that must be maintained. FEMIS has been designed and tested to achieve this integrity.

When changes are made using the Data Manager tool or other tools, such as SQL\*Plus, care must be taken to prevent inconsistencies in the database. Only System Administrators that understand the database and its inter-relationships should use these tools to make database modifications.

### 4.3.2 Testing Modifications

It is recommended that any significant changes to the database should first be tested by implementing them on an exercise dataset, see Section 6.0, Managing Exercise Data. If problems are encountered, the exercise data can be easily deleted without any impact on the operational data. When the changes have been tested, then they may be applied to the operational data.

### 4.3.3 Exercise Data

Each time a new exercise is generated, approximately one-half of the tables in the relational database gain a significant number of new records. If the obsolete exercise data is not removed, database performance may be impacted. Section 6.0, Managing Exercise Data, describes the maintenance of this type of data. Each dataset should be documented and unnecessary exercises deleted.

### 4.3.4 Archiving Tables

The `Journal` table (where events are logged), meteorological tables, and other database tables grow daily as the system is used. For example, if FEMIS is operated 7 days a week for 24 hours a day with continuous meteorological feed, the `MET_CONDITION` table records could increase by approximately 1,000 records per day. In a month, nearly 30,000 records would accumulate, and in a year, the count would be approximately 360,000. The rate of growth for the `Journal` table would be less than the

meteorological tables, but after a year's time, it may approach 100,000 records. These numbers of records would not fill the tables or the database but would be undesirable to view in the meteorological status boards.

Data archiving was integrated with the Folder functionality in FEMIS v1.4.7. When a Folder is closed and marked for deletion, the information in the database is exported to a file, and then the table records for that Folder are deleted. As an integral part of Folder deletion, meteorological data and Journal data are also archived.

### 4.3.5 Backup and Recovery of the Database

The database files should be backed up at regular intervals. One backup per day, during off-use times, should be sufficient; your System Administrator may decide that more frequent backups are desirable. In case of disk failures or other serious problems involving the database, the files can be restored from the latest backup. See the Section 12.0, Backup Strategy for FEMIS, in the *System Administration Guide for FEMIS Version 1.5.3* for additional details on backing up the database.

## 4.4 Data Sharing Between EOCs

Information in the EOC databases is shared between EOCs in order to provide users with a site-wide concept of the current status of conditions. In FEMIS, this sharing is done two different ways: depot owned tables or site-wide shared tables.

### 4.4.1 Depot Owned Tables

The simplest sharing is done with the depot tables that only the depot can modify. Examples are the BUNKER and MET\_CONDITION tables. Offpost EOCs are provided with a read only copy of this data that reflects all changes made onpost. These shared tables are as follows:

```
BUNKER  
BUNKER_CONTENT  
CSEPP_ACCIDENT  
D2_MET_SELECTION  
MET_CLUSTER  
MET_CONDITION  
MET_TOWER  
STORED_AGENT  
WORK_PLAN  
WORK_PLAN_ACT  
WORK_PLAN_LIBRARY
```

### 4.4.2 Site-wide Shared Tables

Another form of data sharing assembles copies of other EOC data in a site-wide view. For example, Facility table data is shared in a view named S\_FACILITY that contains information from all EOCs

including the local one. Table 4.1 shows the tables shared with the site-wide views and indicates the default options in the Conditional column.

For site-wide shared tables, the two options for controlling what table data remote EOCs will be able to view are unconditionally (all changes will be propagated) or conditionally. The conditional option uses a flag setting that allows changes in the local database to occur without propagation of the data until the user wants to share it (if sharing is desired).

**Table 4.1.** Site-wide View Tables

<b>Table Name</b>	<b>Conditional</b>
AGENCY	N
ALTERNATE_ACCESS	N
CASE_ATTR	N
CASE_MANAGER	N
CONTROL_POINT	Y
D2_INPUT	Y
D2_ITEM_OF_INTEREST	Y
D2_I_CONCENTRATION	Y
D2_I_DOSAGE	Y
D2_I_MET	Y
D2_I_QUANTITY	Y
D2_I_RELEASE_NUM	Y
D2_O_POSINP	Y
DEPARTMENT	N
EOC_ZONE	N
EXERCISE_CONTROL	N
FACILITY	N
FOLDER	N
FREE_FORM_LOG	N
G_DEF_COMMUNITY	N
G_DEF_COMMUNITY_VAL	N
G_DEF_EMERGENCY	N
G_DEF_EMERGENCY_LEVELS	N
G_DEF_HAZARD_CLASS	N
G_DEF_NAV_BUTTON	N

<b>Table Name</b>	<b>Conditional</b>
G_DEF_NAV_FUNCTION	N
G_DEF_NAV_FUNCTION_IO	N
G_DEF_PAD_LABELS	N
G_EMERGENCY	N
G_SHARING	N
GEO_OBJECT	N
GEO_OBJECT_ZONE	N
GIS_LAYER	N
GIS_SYMBOL	N
GIS_THEME_DATA	N
HAZARD_CASE	Y
HAZARD_CASE_ITEM	Y
INTERVAL_QUANTITY	Y
JOURNAL	Y
MEMO_UNDERSTANDING	N
MODEL_ATTR	N
MODEL_DEF	N
NAVIGATOR	Y
NAVIGATOR_ITEM	Y
OBJECT_ATTR	Y
OBJECT_ATTR_DEF	N
OBJECT__CLASS	N
OBJECT__CLASS_CO_LOCATION	N
OBJECT_SUBCLASS	N
PARPAD_DETAIL	Y
PARPAD_HEADER	Y
PA_LOOKUP	N
PA_UNIT	N
PERSON_SHELTERED	N
PLUME	Y
POLYGONAL_LAYER	N
POSITION	N
POTENTIAL_ACCIDENT	Y



Table Name	Conditional
PRIVILEGE	Y
PROTECTIVE_ACTION	N
RELEASE	Y
REPLICATION_TEST	N
RESOURCE_CATEGORY	N
RESOURCE_DEFINITION	N
RESOURCE_OWNER	N
RESOURCE_LOCATION	N
SHARED_REPORT	Y
SITUATION_SUMMARY	N
THREAT_AREA	Y
UDS_COLUMN	Y
UDS_ROW	Y
USER_DEFINED_STATUS	Y
USER_MODEL_CASE	Y
WORK_PLAN	Y
WORK_PLAN_ACT	Y
WORK_PLAN_LIBRARY	Y
WK_POSITION	N
ZONE_CLUSTER_IN_GROUP	N
ZONE_IN_GROUP	N
ZONE_RISK_GROUP	N

## 4.5 Security Provisions

FEMIS provides table access security so it is possible to limit access to individual tables. This access is controlled by the `tablist.tpl` template file found in the `/home/femis/database/dba` directory. This table has six columns and a row for each table in the database.

The first column is the `tablename` and the rest of the columns control access to the table.

The second column specifies if the table is only located at the onpost database. A `Y` value means that a table like `BUNKER` is only found onpost; a `N` means the table is found both onpost and offpost.

The next three columns control the select, update, and insert/delete privileges, respectively. The privileges are cumulative. To only allow read, set the `select` column to `Y`, and the other two columns to `N`.

The sixth column controls which administrative schema has access to the table. A `B` here means both the `femis` and `oracle` schema have access. An `N` means neither have access, while an `O` lets only `oracle` have access. An `F` gives only the `femis` schema access.

## 5.0 Managing Spatial Data

FEMIS spatial datasets are stored as ArcView themes (layers) and referenced by the FEMIS GIS ArcView Project (APR) file. Each theme represents a specific type of physical or geopolitical feature (e.g., roads, state and county boundaries, chemical storage locations) within the area of interest surrounding a CSEPP site. Table 3.5 lists and describes the standard FEMIS spatial themes that are required or are typically included in each CSEPP site database. Additional site-specific themes may also be included to meet the needs or interests of a specific site. The data files for each spatial theme are stored on the UNIX server in a directory structure that allows them to be easily installed on each PC. Users maintain copies of these theme files in a parallel directory structure on their client PCs for use with the ArcView GIS software. When additions or changes are made to spatial data files on the server, an update program that runs during PC login is used to update the PC's copy of those files.

The `GIS_LAYER` and `GIS_LAYER_DEFINITION` tables in the relational database contain metadata that define the storage structures and display characteristics of the spatial themes. Other tables contain location information and attribute values associated with individual geographic features within a spatial theme. The `GEO_OBJECT` table contains unique feature identifiers that link the attribute information in the relational database to the corresponding features in the spatial data.

The FEMIS spatial data can be divided into three categories: static spatial data, user-modifiable spatial data, and model-related spatial data. These categories are discussed below.

1. Static spatial data themes cannot be modified by FEMIS users. Required changes or upgrades to these themes occur infrequently and are managed and controlled by the System Administrator. Examples of static spatial themes are roads, census blocks, and emergency planning zone boundaries.
2. User-modifiable spatial data themes can be modified by authorized users from within certain FEMIS modules. These modifications may include addition and deletion of map features (objects) and modification of the location and other attributes of existing map features. The changes are first applied to the FEMIS relational database. The FEMIS software then updates the corresponding spatial themes in ArcView based on the values in the relational database. Facilities and Traffic Control Points are examples of user-modifiable spatial themes.
3. Model-related spatial data themes are created dynamically for each model case that is run. These themes are temporarily generated and stored on the user's PC as needed.

### 5.1 Static Spatial Datasets

The following paragraphs briefly describe the management and maintenance processes for the static FEMIS spatial themes that cannot be modified by FEMIS users.

### 5.1.1 Census Blocks

Your System Administrator maintains the census enumeration district boundaries. Changes in the data would normally originate from updated TIGER/Line data files from the US Bureau of the Census. The entire Census Block theme would be regenerated from the new TIGER/Line files for the included counties or other geographic areas. Changes in the values of the `Population` attribute for each census unit may also need to be made as new census statistical data becomes available.

### 5.1.2 County Boundaries

Your System Administrator maintains the County Boundaries theme. Changes in the data would normally originate from updated TIGER/Line data files from the US Bureau of the Census. Depending on the nature and magnitude of the changes, your System Administrator could choose either to regenerate the entire theme from the new TIGER/Line files (the recommended method) or to use a spatial data editing tool to edit the existing County Boundaries theme.

### 5.1.3 Emergency Planning Zones

Your System Administrator maintains the Emergency Planning Zones theme. Changes in the data, necessitated by changes in zone boundaries or the addition of new zones, can be made by using the Zone Editor tools in the FEMIS GIS APR. The Zone Editor tools can be used to modify or add zone boundaries and/or change zone attributes and to generate zone modification files. These files are then read by a UNIX shell script, which generates and runs a sequence of SQL database scripts to make the corresponding updates to the `ZONE` table and other related tables in the FEMIS relational database. See Section 8.4, Zone Editor, in the *System Administration Guide for FEMIS Version 1.5.3* for instruction on how to use the Zone Editor tools and scripts.

### 5.1.4 Depot Zones

The Depot Zones theme, which consists of the Chemical Limited Area (CLA) boundary plus any other onpost zones that the site desires to include, is maintained by your System Administrator. Changes to the Depot Zones theme can be made by replacing the theme in its entirety with new data, by using a spatial data editing tool to graphically edit the existing Depot Zones theme, or by performing the following steps: 1) Edit the original ARC/INFO `Generate` text file that contains the polygonal vertex locations for the CLA boundary and any other included depot sub-zones; 2) use the edited file to recreate the ARC/INFO Depot Zones coverage; and 3) convert the coverage to an ArcView shape file set.

### 5.1.5 Administrative Boundaries

Your System Administrator maintains Administrative Boundaries (e.g., national forest boundaries, military reservation boundaries). Changes in the data would likely originate from new or updated United States Geological Survey (USGS) Digital Line Graph (DLG) data. Depending on the nature

and magnitude of the changes, your System Administrator could choose either to regenerate the entire theme from the new USGS data files (the recommended method), or to use a spatial data editing tool to edit the Administrative Boundaries theme.

### **5.1.6 Road Themes (Detailed, Major)**

Road network themes (Detailed and Major) are maintained by your System Administrator. Changes in the data would likely originate from updated TIGER/Line data from the US Bureau of the Census. Depending on the nature and magnitude of the changes, your System Administrator could choose either to regenerate each affected theme from the new TIGER/Line files (the recommended method), or to use a spatial data editing tool to edit the appropriate Road themes.

### **5.1.7 Railroads**

Your System Administrator maintains the Railroads theme. Changes in the data would likely originate from updated TIGER/Line data from the US Bureau of the Census. Depending on the nature and magnitude of the changes, your System Administrator could choose either to regenerate the entire theme from the new TIGER/Line files (the recommended method) or to use a spatial data editing tool to edit the existing Railroads theme.

### **5.1.8 Streams and Water Bodies**

Your System Administrator maintains the Streams and Water Bodies theme. Changes in the data would likely originate from updated TIGER/Line data from the US Bureau of the Census. Depending on the nature and magnitude of the changes, your System Administrator could choose either to regenerate the entire theme from the new TIGER/Line files (the recommended method), or to use a spatial data editing tool to edit the existing Streams and Water Bodies theme.

### **5.1.9 Elevation Contours**

Your System Administrator maintains the Elevation Contours theme. Changes in the data would likely originate from new or updated USGS elevation data. Depending on the nature and magnitude of the changes, your System Administrator could choose either to regenerate the entire theme from the new USGS data files (the recommended method) or to use a spatial data editing tool to edit the existing Elevation Contours theme.

### **5.1.10 Image Maps**

Your System Administrator maintains image maps. Revised image maps are incorporated into the spatial database in the same manner as the original image maps were installed (registration to the target map projection in ARC/INFO or other geo-referencing software, conversion to a TIFF, JPEG, or MrSID formatted file, integration with other images as necessary, and export to ArcView). A

revised image map of an area previously represented would replace the obsolete image map file of the same area. An image map of an area not previously represented could be added to the image files.

## 5.2 User-Modifiable Spatial Datasets

This section discusses Facilities, Traffic Control Points, Sirens, User Defined Points, User Defined Polygons, Met Towers, and Igloos themes. Users that have the appropriate privileges can modify these themes from within FEMIS.

### 5.2.1 Facilities

Users can add, delete, or modify facility locations and attributes in their EOC from within FEMIS. After a user has finished making the changes and submits the new information to the database, an `SQL-PASSTHRU` query is automatically run from the FEMIS application. This query updates the appropriate database tables and creates an ASCII event file that is used to regenerate the Facilities theme. Your System Administrator can update the Facilities theme by following the same process.

### 5.2.2 Traffic Control Points

Users can add, delete, or modify traffic control point locations and attributes in their EOC from within FEMIS. After a user has finished making the changes and submits the new information to the database, an `SQL-PASSTHRU` query is automatically run from the FEMIS application. This query updates the appropriate database tables and creates an ASCII event file that is used to regenerate the Traffic Control Points theme. Your System Administrator can update the Traffic Control Points theme by following the same process.

### 5.2.3 Sirens

Users can add, delete, or modify warning siren locations and attributes in their EOC from within FEMIS. After a user has finished making the changes and submits the new information to the database, an `SQL-PASSTHRU` query is automatically run from the FEMIS application. This query updates the appropriate database tables and creates an ASCII event file that is used to regenerate the Sirens theme. Your System Administrator can update the Sirens theme by following the same process.

### 5.2.4 User Defined Points

Users can add, delete, or modify user defined point locations and attributes in their EOC from within FEMIS. After a user has finished making the changes and submits the new information to the database, an `SQL-PASSTHRU` query is automatically run from the FEMIS application. This query

updates the appropriate database tables and creates an ASCII event file that is used to regenerate the User Defined Points theme. Your System Administrator can update the User Defined Points theme by following the same process.

### **5.2.5 User Defined Polygons**

Users can add, delete, or modify user defined polygon locations and attributes in their EOC from within FEMIS. After a user has finished making the changes and submits the new information to the database, an `SQL-PASSTHRU` query is automatically run from the FEMIS application. This query updates the appropriate database tables and creates an ASCII event file that is used to regenerate the User Defined Polygons theme. Your System Administrator can update the User Defined Polygons theme by following the same process.

### **5.2.6 Met Towers**

Users can add, delete, or modify Met tower locations and attributes in their EOC from within FEMIS. After a user has finished making the changes and submits the new information to the database, an `SQL-PASSTHRU` query is automatically run from the FEMIS application. This query updates the appropriate database tables and creates an ASCII event file that is used to regenerate the Met Towers theme. Your System Administrator can update the Met Towers theme by following the same process.

### **5.2.7 Igloos**

Onpost users can add, delete, or modify igloo locations and attributes in their EOC from within FEMIS. After a user has finished making the changes and submits the new information to the database, an `SQL-PASSTHRU` query is automatically run from the FEMIS application. This query updates the appropriate database tables and creates an ASCII event file that is used to regenerate the Igloos theme. Your System Administrator can update the Igloos theme by following the same process.

## **5.3 Model-Related Spatial Datasets**

Model related spatial datasets include D2PC plumes and Threat Area(s) themes. For each of these themes, the actual ArcView GIS files are created dynamically by the FEMIS application and stored temporarily on the PC. No model spatial data files for the GIS are stored on the server.

### **5.3.1 D2PC Theme Data**

Although D2PC theme files are stored on the PC, they are actually regenerated each time a D2PC plume plotting function is invoked by the FEMIS application. D2PC themes are temporarily created and displayed on the map as needed and are not part of the permanent FEMIS spatial database.

### **5.3.2 Threat Area Theme Data**

Threat Area theme files are regenerated on the PC each time a plume-based threat area or user defined threat area plotting function is invoked by the FEMIS application. Threat Area themes are temporarily created and displayed on the map as needed and are not part of the permanent FEMIS spatial database.



## 6.0 Managing Exercise Data

Training and readiness are evaluated through exercises. The FEMIS system supports exercises and training of any aspect of the system's use while still maintaining the integrity of the operational data and situation. In Exercise mode, FEMIS uses copies of the operational data so the exercise can be as similar to Operations mode as possible.

An exercise situation can be set up to meet your exercise objectives. Over 90 of the tables in the relational database are used for exercises, and each table can contain data for many exercises. This section describes how to manage this type of data.

When you are in Exercise mode, a bicycle icon is displayed on FEMIS windows.

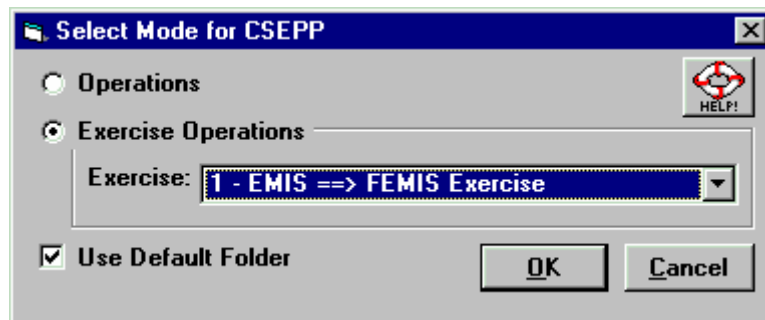


### 6.1 Selecting Exercise Modes

Exercise mode is used for training or formal site exercises. Exercise mode can be accessed from the Select Mode for CSEPP window after you have logged in or from the Mode button on the FEMIS Workbench.

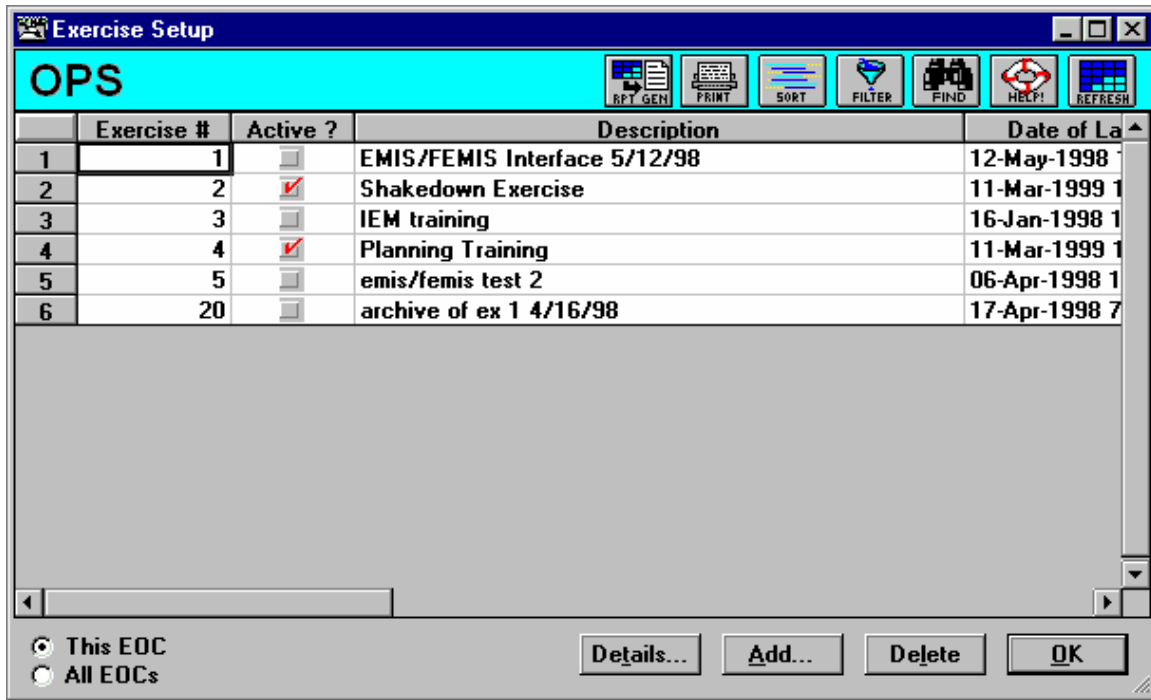
From the Select Mode window, click on the Exercise Operations radio button, and select an exercise from the Exercise drop-down list. After you have selected an exercise and clicked OK, the FEMIS Workbench is displayed or updated if already open.

Figure 6.1. Select CSEPP Mode Window



To create, modify, or delete an exercise, click on `Utility` → `System Utilities` → `Exercise Setup` on the FEMIS menu bar, and the Exercise Setup window displays. By clicking on the `All EOCs` radio button, you can see all of the exercises for all of the EOCs for a site.

Figure 6.2. Exercise Setup Window



## 6.2 Creating an Exercise

FEMIS enables the appropriate environment to be created for a desired exercise. Because exercise objectives may require particular circumstances, the user should have a clear understanding of the new exercise before proceeding.

On the Exercise Setup window, click the **Add** button to display the Create Exercise window.

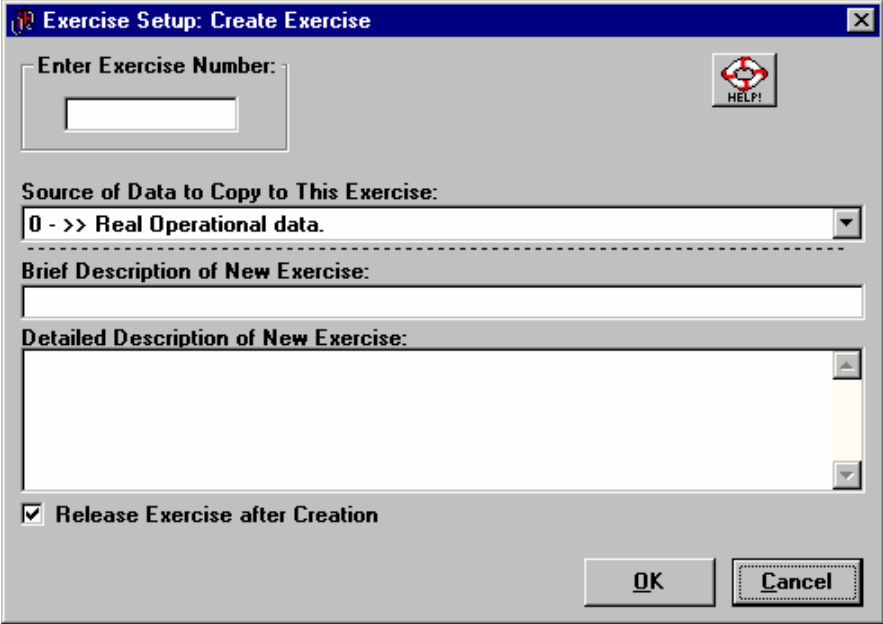
To create a unique exercise, click on the drop-down list to display the available choices for the *Source of Data to Copy to This Exercise*. Usually you will want to use operational data as the basis of the new exercise, so you will select **0 - >> Real Operational data** from the list. You can also select an existing exercise, assign it a new number, and later modify it serve your exercise purpose (see Section 6.3, *Modifying an Exercise*).

To save the new exercise, click the **OK** button. Click **Cancel** to exit without creating a new exercise. A message window will be displayed when the exercise has been created and will display how many records were copied.

FEMIS will ensure data integrity between exercise and operational data. During an exercise, some data may be entirely simulated while other data may be real. FEMIS enables you to specify when the data is real in as non-obtrusive a way as possible.

During the exercise itself, FEMIS supports exercise control by allowing the controller to inject information into the exercise data, use E-mail, and review the exercise using FEMIS status boards.

**Figure 6.3.** Exercise Setup: Create Exercise Window



The screenshot shows a Windows-style dialog box titled "Exercise Setup: Create Exercise". It features a close button (X) in the top right corner. The main content area includes:

- An "Enter Exercise Number:" label above a text input field.
- A "HELP!" button with a red crosshair icon.
- A "Source of Data to Copy to This Exercise:" label above a dropdown menu showing "0 - >> Real Operational data."
- A "Brief Description of New Exercise:" label above a single-line text input field.
- A "Detailed Description of New Exercise:" label above a multi-line text area with a vertical scrollbar.
- A checked checkbox labeled "Release Exercise after Creation".
- "OK" and "Cancel" buttons at the bottom right.

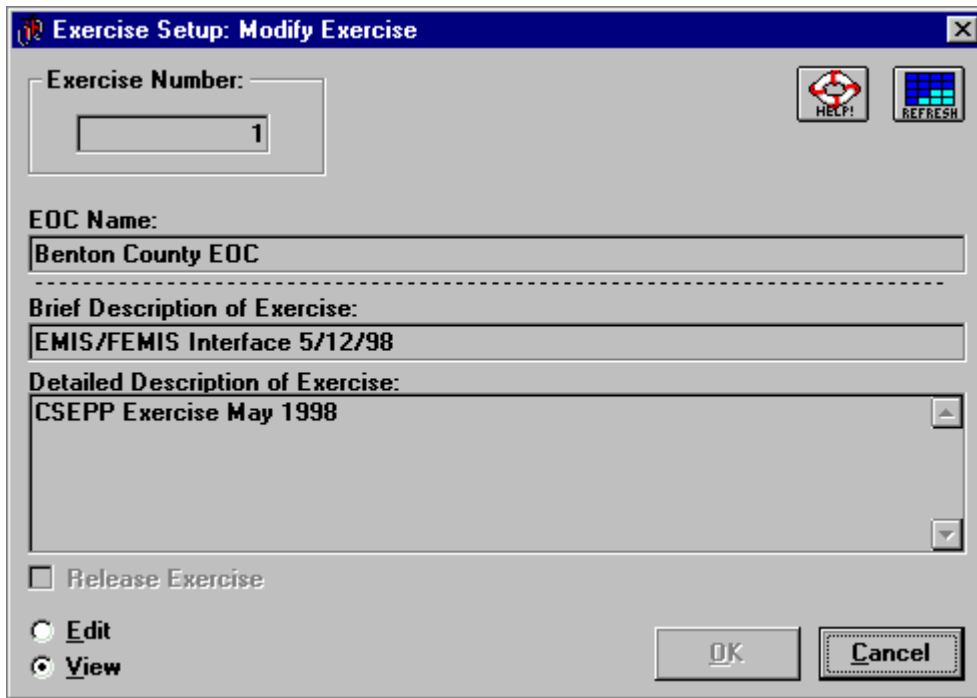
## 6.3 Modifying an Exercise

FEMIS enables your system manager/exercise director to modify an existing exercise to fit changing EOC requirements.

To modify an exercise, select the exercise to modify from the spreadsheet, and click the `Details` button on the Exercise Setup window. The Exercise Setup: Modify Exercise window is displayed with the details of the selected exercise loaded in the various fields. Click the `OK` button to save your changes. Click `Cancel` to exit without modifying the exercise.

At this point, you can modify the exercise to fit your needs by using the FEMIS user interface and the Data Manager. The `Brief Description of Exercise` and the `Detailed Description of Exercise` fields should be modified to indicate details of the modified exercise.

Figure 6.4. Exercise Setup: Modify Exercise Window



## 6.4 Deleting an Exercise

FEMIS enables you to delete an exercise without affecting the Operations mode.

Exercises take up a lot of database space. To keep your database from filling up with exercises, your System Administrator should delete them as necessary.

To delete an exercise, select the exercise from the Exercise Setup spreadsheet, and click the `Delete` button. To confirm that you want to delete the selected exercise, click the `Yes` button. Click `No` to exit without deleting an exercise.

If you attempt to delete an exercise that other users are logged into, the person deleting the exercise will receive a message listing the users that are logged into that exercise.

## 7.0 Managing Meteorological (Met) Data

Meteorological (Met) information is collected from the subsystem that collects data from the towers by EMIS. EMIS forwards that information to the FEMIS Data Exchange Interface (DEI), usually at 15 minute intervals. As shown in Figure 1.1, the EMIS server collects the data and sends it to the FEMIS UNIX server where it is loaded into the `MET_CONDITION` table in the FEMIS relational database. Meteorological data is stored in the FEMIS relational database with the units indicated in Table 7.1.

**Table 7.1.** Units for FEMIS Meteorological Data

Field	Data Units
Wind Speed	m/sec
Wind Direction	Deg
Wind Sigma	Deg
Temperature	°F
Relative Humidity	%
Atmospheric Pressure	mBar
Height of Mixing Layer	m
Cloud Height	ft
Solar Radiation	W/m <sup>2</sup>
Rain Fall	mm
Battery Voltage	volts

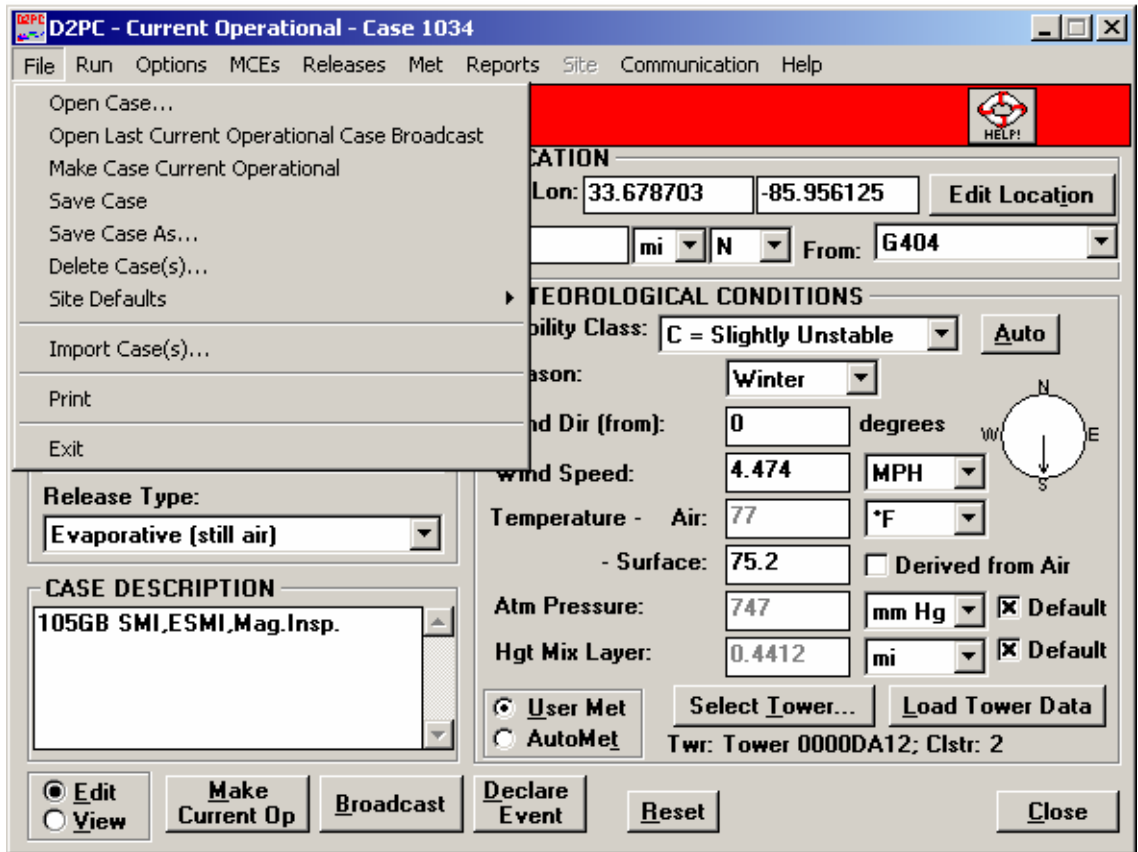
Data records will accumulate in the `MET_CONDITION` table while the meteorological collection subsystem is in operation. An automated method to archive meteorological data is provided as a UNIX cron job. When this cron job is activated, the meteorological data will be archived periodically, usually once per week. For more details, see Section 12.1.4, External Storage of Folders and Deletion of Old Folder Data, in the *System Administration Guide for FEMIS Version 1.5.3*.

If site policy requires that the old information must be saved, then the data must be copied to a permanent media for the archiving.

## 8.0 Managing D2PC Model Data

D2PC model data is managed from the D2PC interface, which can be accessed from the D2PC toolbar button on the FEMIS Workbench, D2PC function box on the Navigator, Work Plan Activity window, Event Status Board, or AutoD2PC. On the D2PC interface window, select an option under the pull-down File menu. These options enable you to: 1) open a case, 2) save a case or save a case as a new case number, 3) delete more than one case, and 4) import more than one case. You can archive D2PC Cases by opening a new folder and marking the old folder for archival.

Figure 8.1. D2PC Interface Window



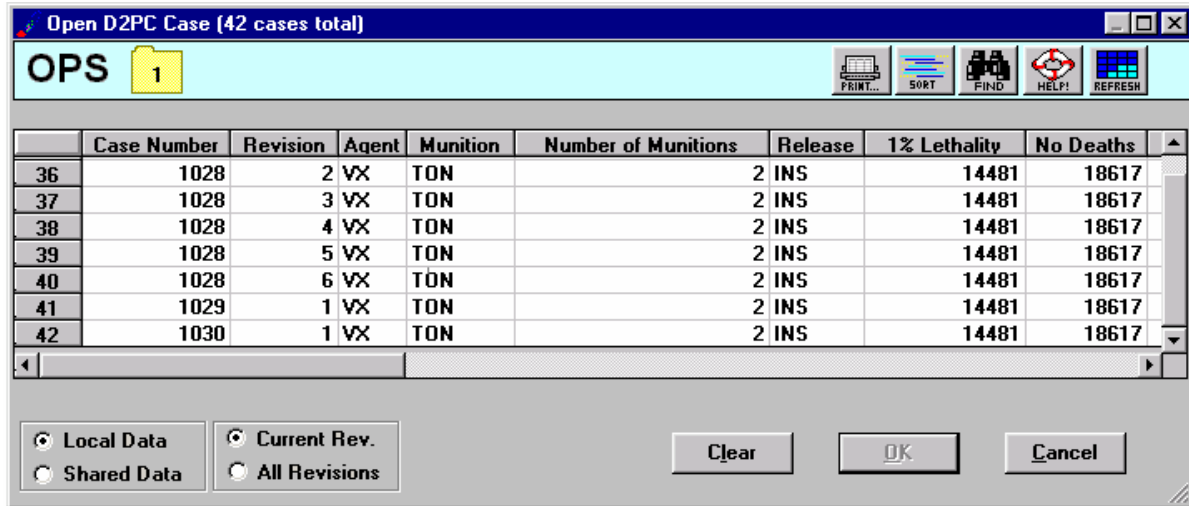
### 8.1 Opening a D2PC Case

When you select `Open Case`, the Open D2PC Case window displays with a list of the available D2PC cases. You have two options to open a case. To open a case from the list, either double-click on any cell for the case you want to open or click once to highlight the case and then click the `OK` button.

D2PC cases are managed using the Open D2PC Case window. You have several options regarding the cases that will be displayed. The `Local Data` or `Shared Data` options let you select only your

EOC (local) or all EOCs (shared) cases to be displayed. The **Current Rev.** or **All Revisions** options let you select only the latest revision of each case (all revisions for the case number that includes the current operational case) or all revisions of all cases to be displayed.

Figure 8.2. Open D2PC Case Window



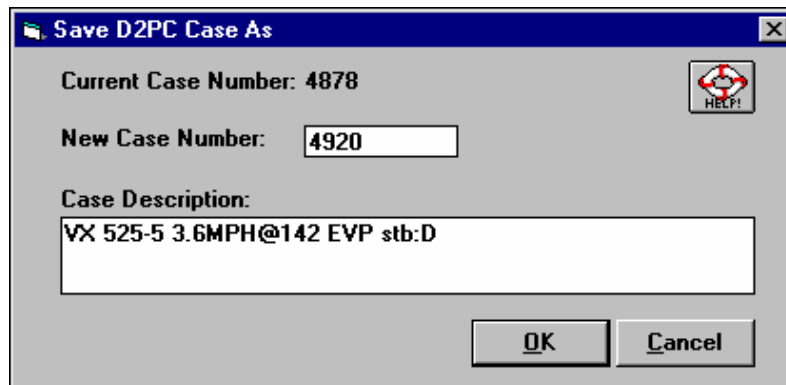
## 8.2 Saving a D2PC Case

The **Save Case** options enable you to save any changes to the current D2PC case. Before you can save a case, you must activate the **Edit** radio button on the D2PC interface window.

The **Save Case** option saves your changes to the next available case number. The **Save Case As** option enables you to save D2PC case changes to a new case number, which you can specify.

1. When you select the **Save Case As** option, the **Save D2PC Case As** window will display.

Figure 8.3. Save D2PC Case As Window



2. A suggested new case number will be displayed in the `New Case Number` field. If you do not want to use the suggested case number, you can enter your own number.
3. In the `Case Description` field, you may enter a case description, which could include details such as the type of release, wind speed, and temperature, or you can accept the default description.
4. Click on the `OK` button to save the D2PC case to accept the new case number, or click on the `Cancel` button to close the window without saving the case.

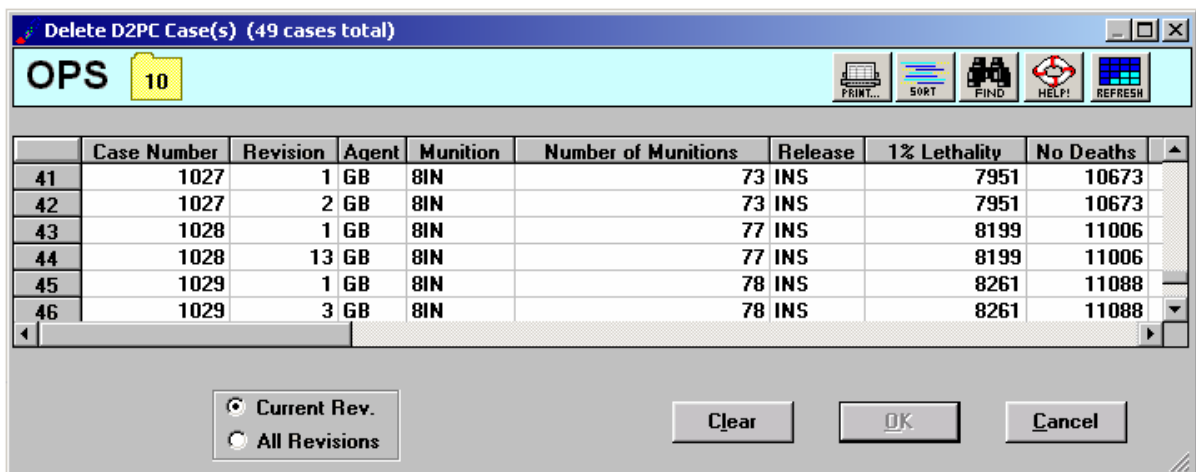
### 8.3 Deleting a D2PC Case

To delete a D2PC case, complete the following steps.

1. Select `Delete Case(s)` from the `File` pull-down menu. The `Delete D2PC Case(s)` window will display.
2. Select the D2PC case or cases you want to delete. If you want to delete more than one case, hold down the `<Ctrl>` key while you click on the additional cases. To delete contiguous rows (cases), you can either hold down the `<Shift>` key while you click on the first and last cases to be deleted or drag the cursor over the rows to select the range of cases to be deleted. Click the `OK` button. A message will display requesting verification of the cases to be deleted. Click the `Yes` button to delete, or click the `No` button to cancel.

**Note:** You cannot delete the current operational case. If the case you want to delete is the current case, select a different case to be your current case; then you can delete the desired case.

Figure 8.4. Delete D2PC Case(s) Window



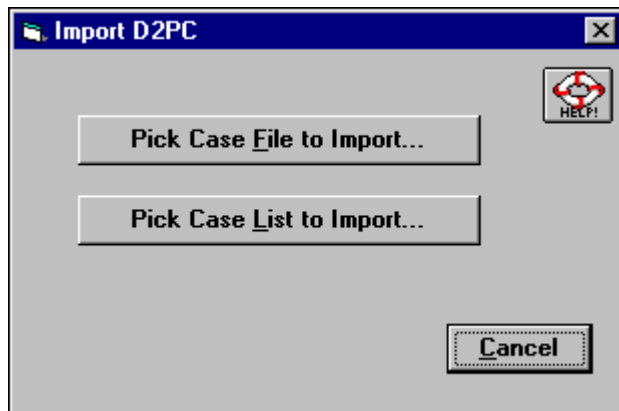


## 8.4 Importing a D2PC Case

To import a D2PC case, complete the following steps.

1. Select the `Import Case(s)` option from the `File` pull-down menu. The `Import D2PC` window will display.

**Figure 8.5.** Import D2PC Window



2. The two options available for importing a case are
  - `Pick Case File to Import`, which will import a single case. The default extension for a D2PC Case File is `.dat`.
  - `Pick Case List to Import`, which will import multiple cases. Before you can import this list, you will need to create a Case List. You must use an editor and produce a file that contains the full path name for each D2PC case included in the Case List. The default list file extension is `*.lst`; an example filename is `myd2list.lst`.

Files with other extensions can be displayed by changing the extension shown in the `List files of type` box on the `Pick D2PC Case Import` window.

3. To find the file you want to import, click on the drive and file path name until the file you want is listed. Select the file from the list, and click `OK`.

For more details regarding managing D2PC cases, see the FEMIS Online Help.

## **9.0 Folder Management and Archiving**

The concept of folders in FEMIS provides a means to associate the activities done in a specific EOC usually over one or more days. A folder is normally initiated when some new type of activity commences. The new folder may be initialized with some preset information, but much of the folder specific information is empty at the time of creation. Information in the folder increases depending on what is happening during the time the folder is open. When the activities are completed or after some predefined length of time has elapsed, the folder is closed. A folder limits the amount of data seen by the EOC users and makes their jobs easier to perform. Since a folder contains only related information, it is easy to review this information at a later time.

Folders can be used to review information and decisions that were made in the past. This may be done informally to determine how well EOC users perform their tasks, or it may be done as part of some legal action arising from property or personal damages. For both of these activities it is recommended to copy or move the folder information from the EOC to another platform where the integrity of the data can be guaranteed. If the folder database information is not saved in a timely manner, it will be difficult or impossible to reconstruct since new information will overwrite or modify it.

### **9.1 External Storage**

Folder data must be saved on the EOC server where it was created and put in a form so it can be moved to another database. The data must be saved soon after the folder is closed in order to capture a true snapshot of the conditions present at that time. If this is not done, changes made at other EOCs will change the database.

The Oracle export utility is used for saving the folder on a medium that can be used to recreate the database at a later time. A system level database export is performed each workday evening as part of the database backup policy. The export creates a disk file on the server each night during the workweek. These export files get backed up to tape as part of the server file backup. The export file could be copied to another server or copied to a tape that could be stored with other folder exports for long period of time.

The process is controlled by a FEMIS cron job that normally runs at 22:00 each workday night. This schedule can be modified to suit the needs of the EOC. The process does a system level export of the database and then calls the Folder Deletion process described below.

### **9.2 Folder Data Deletion**

The FEMIS database contains information, such as meteorological data, Work Plans, and D2PC cases that will build up many records during a month's interval. In older versions of FEMIS, a timed archive process saved the data and then deleted some of it to keep the tables at a manageable size.

Archiving is now performed by the folder delete process combined with the External Storage process described above.

Folder Deletion considers whether a folder is using a database table, and if it is, whether the folder is closed and marked for deletion. Tables containing status board data, D2PC cases, and Journal data are used by folders so obsolete records will be removed when the folder is no longer needed. For the depot, the Folder Delete process is more complicated than for offpost EOCs due to the presence of Work Plans and meteorological data that only resides in the depot database.

Special business rules for deleting folder data are used for the Journal table and Met tables. The Journal table may get large even though it is a folder table, so the delete process checks the first Monday of each month to look for records older than 28 days. If any records are found, they are deleted. The Met tables are checked each Monday of every week, and data is removed that is older than 7 days.

To aid in the Folder Deletion process, a new Oracle stored procedure has been developed. This procedure is executed each time the External Store exports the database. It will delete folder data for all EOCs that reside on the server.

### **9.3 Archiving D2PC Cases**

Archiving D2PC cases may now be done by opening a new folder and marking the old folder for archival.

**Appendix A**  
**Site Survey Form**

## **Appendix A – Site Survey Form**

Because FEMIS encompasses different functionality than IBS and EMIS, some site-specific information that was essential for FEMIS was not present electronically. This type of information was obtained during database kickoff meetings held at each site. The Site Survey form, designed by Innovative Emergency Management, Inc. (IEM) and PNNL, was used to gather this information. The surveys were tailored for each site.

An example of a Site Survey is included to indicate the types of information needed for FEMIS. This example is for the Umatilla site in Oregon.

# Umatilla Site FEMIS Database Survey: Priority 1 Data, *Umatilla Chemical Depot*

## INTRODUCTION

The Federal Emergency Management Information System (FEMIS) is under development by Battelle Memorial Institute, Pacific Northwest National Laboratory (PNNL). The system's purpose is to serve as the automation system in support of the Chemical Stockpile Emergency Preparedness Program (CSEPP).

The government is preparing to field FEMIS v1.2 at the Umatilla, OR site. For FEMIS to work properly at the Umatilla site, the software must have site-specific geographical data. IEM has been tasked by the government to populate a FEMIS database for the Umatilla site.

To start this task, IEM is hosting a Umatilla FEMIS database meeting at PNNL facilities on July 9, 1996. The meeting will be attended by representatives from the Umatilla jurisdictions and from PNNL. Meeting participants will generate a list of requested data for the FEMIS database. The final data list will be included in the *Umatilla FEMIS Database Meeting: After-Action Report*, to be distributed July 12.

In that report, the requested data will be ranked according to a set of priorities:

- Priority 1: These data are *required* data and must be present in the database for FEMIS to operate.
- Priority 2: These data are supporting data that are not needed for FEMIS to operate, but are *critical* to planning and response in FEMIS, and are *easy* to gather and maintain.
- Priority 3: These data are supporting data that are not needed for FEMIS to operate, and are *critical* to planning and response in FEMIS, but are *difficult* to gather or maintain.
- Priority 4: These data are supporting data that are not needed for FEMIS to operate, and are *not critical* to planning and response in FEMIS, but are *easy* to gather and maintain.
- Priority 5: These data are supporting data that are not needed for FEMIS to operate, and are *not critical* to planning and response in FEMIS, and are *difficult* to gather or maintain.

To facilitate the gathering of Priority 1 data, IEM is distributing this survey to all Umatilla jurisdictions. The survey results are needed as soon as possible, but no later than July 26, 1996, to expedite fielding of the FEMIS database. A survey for gathering data at Priority 2-5 will be provided later, based on guidance from the CSEPP Core Team.

## How to Use This Survey

**Please answer the questions in this survey as completely as possible.**

When done, please return the survey to IEM by mail or fax. Send the survey to the attention of Todd Pierce at the following address.

Dr. Todd M. Pierce  
IEM, Inc.  
7423 Picardy Avenue, Suite E  
Baton Rouge, LA 70808  
504/767-8191 (phone)  
504/767-8122 (fax)



If you need help answering any of the survey questions, please contact Todd Pierce at the same address.



***PLEASE BEGIN SURVEY ON THE NEXT PAGE.***



## EOC INFORMATION

Please review the following information about your Emergency Operating Center. This information will be used to identify your FEMIS database. Please correct any erroneous information.

1. EOC Agency Name: **Umatilla Chemical Depot**
2. EOC Code: **UMCD (for UMatilla Chemical Depot)**  
(4 letters maximum)

Please review the following information about your EOC response functions. This information will be used to group tasks by function in an electronic plan in FEMIS. Please correct any erroneous information.

3. Listed below are the emergency support functions for response that are currently in FEMIS. Please review the list and perform the following actions:

- A. Delete any unneeded functions by drawing a line through the function in column A, *FUNCTION*.
- B. Edit a function by drawing a line through the function and writing the new function next to the old one in column B, *EDIT FUNCTION*.
- C. List any new functions by writing them in column C, *NEW FUNCTIONS*.

<b>A. FUNCTION</b>	<b>B. EDIT FUNCTION</b>	<b>C. NEW FUNCTIONS</b>
Alert Notification		
Communications		
Damage Assessment		
Direction Control		
Energy		
EOC Activation		
Evacuation		
Firefighting		
Food		
Hazard Analysis		
Hazardous Materials		
Health and Medical Services		
Information and Planning		
Law Enforcement		
Mass Care		
Public Information		
Public Works and Engineering		
Resource Support		
Sheltering		
Transportation		
Urban Search and Rescue		



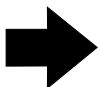


## EMERGENCY PLANNING ZONES

Please answer the following question about your Emergency Planning Zones. This information will be used when you make a Protective Action Decision in FEMIS.

4. Which Emergency Planning Zones (EPZs) are your EOC responsible for? In other words, what are the EPZs for which your EOC can make a Protective Action Decision (PAD)? Please list them below.

EMERGENCY PLANNING ZONES FOR YOUR EOC	



**PLEASE TURN PAGE TO BEGIN NEXT SECTION.**



## EOC POSITIONS

**Please review the following information about your EOC positions. This information will be used when creating the FEMIS personnel database. Please correct any erroneous information.**

5. Listed below are the EOC positions currently in FEMIS. Please review the list and perform the following actions:

- A. Delete any unneeded positions by drawing a line through the position in column A, *EOC POSITION*.
- B. Edit a position by drawing a line through the position and writing the new position next to the old one in column B, *EDIT EOC POSITION*.
- C. Add any new positions by writing them in column C, *NEW EOC POSITION*.

A. EOC POSITION	B. EDIT EOC POSITION	C. NEW EOC POSITION
Accounting Personnel		
Administration Clerk		
Administration Officer		
Agriculture Department Representative		
Ammunition Branch Representative		
Assistant EOC Coordinator/Director		
Automation System Manager		
Auditor		
Chemical Accident or Incident Control Officer		
Casualty Coordinator		
Chemical Changehouse Operator		
Chart Control Operator		
Chemical Lab Representative		
Chemical Operations Director		
Chief Plotter		
City Government Representative		
Civil Defense Director		
Claims Officer		
Communications Coordinator		
Communications Representative		
Command Post Officer		
Community Affairs Representative		
Chemical Containment Team Representative		
County Government Representative		
CSEPP Coordinator		
Deputy Director of Operations		
Depot Commander		
Department of Environmental Quality Representative		
Director of Operations		



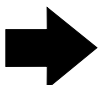
A. EOC POSITION	B. EDIT EOC POSITION	C. NEW EOC POSITION
Dispatcher		
Department of Natural Resources Representative		
Emergency Aid Organization Representative		
Emergency Medical Personnel		
Emergency Team Captain		

A. EOC POSITION	B. EDIT EOC POSITION	C. NEW EOC POSITION
EMIS System Manager		
Engineering Assistant		
Environmental Branch Representative		
EOC Coordinator		
EOC Coordinator/Director		
EOC Operations Officer		
Environmental Protection Agency Representative		
Equipment Coordinator		
Evacuation Coordinator		
Exercise Controller		
Exercise Evaluator		
Explosive Ordnance Disposal Representative		
Facilities Coordinator		
Federal Emergency Management Agency Representative		
Fire Protection/Prevention Representative		
Governor's Representative		
Hazard Analyst/Modeler		
Hazard Plotter		
Health Department Representative		
Human Resource Coordinator		
Information Systems Command Representative		
Information Coordinator/Manager		
Insurance Commission Representative		
Inventory Management Representative		
Initial Response Force (IRF) Commander		
Law Enforcement Representative		
Legal Counselor		
Legal Officer		
Logistics Director/Officer		
Medical Facility Representative		
Message Controller		
Military Affairs Representative		
Monitoring Team Coordinator		
National Guard Coordinator		



A. EOC POSITION	B. EDIT EOC POSITION	C. NEW EOC POSITION
On-Scene Coordinator (OSC)		
Operations Analyst		
Operations Officer		
Personnel Coordinator		
Planner		
Production and Planning Control Representative		
Plotter		
Post Sergeant Major		

A. EOC POSITION	B. EDIT EOC POSITION	C. NEW EOC POSITION
Public Information/Public Affairs Officer		
Public Information Coordinator		
Public Safety Representative		
Public Works/Infrastructure Representative		
Quality Assurance Representative		
Radio Operator		
Recorder		
Records Section Representative		
Report Coordinator		
Resource Coordinator		
Resource Management Officer		
Safety Representative		
Sampling Specialist		
School Superintendent		
Security Guard		
Security/Intelligence Officer		
Shelter Coordinator		
Social Services Representative		
Special Population Coordinator		
Service Response Force Commander (SRF)		
State Coordinating Officer		
State Emergency Management Director		
State Emergency Management Liaison		
Storage Section Representative		
Surety Officer		
Training Officer		
Transportation/Highway Department Representative		



**PLEASE TURN PAGE TO BEGIN NEXT SECTION.**



## RESOURCE CATEGORIES

**Please review the following information about resource categories. This information will be used when creating the FEMIS resource database. Please correct any erroneous information.**

6. Listed below are the resource categories currently in FEMIS. Please review the list and perform the following actions:

- A. Delete any unneeded categories by drawing a line through the position in column A, *RESOURCE CATEGORY*.
- B. Edit a category by drawing a line through the category and writing the new category next to the old one in column B, *EDIT RESOURCE CATEGORY*.
- C. Add any new categories by writing them in column C, *NEW RESOURCE CATEGORY*.

<b>A. RESOURCE CATEGORY</b>	<b>B. EDIT RESOURCE CATEGORY</b>	<b>C. NEW RESOURCE CATEGORY</b>
Barricades		
Cars		
Communication Equipment		
Construction Equipment		
Dry Goods		
Emergency Equipment		
First Aid Supplies		
Food		
Generators		
Hand Tools		
Heavy Equipment		
Lights		
Medical Equipment		
Office Machines		
Paving Equipment		
People		
Power Tools		
Prefabricated Buildings		
Rescue Squad		
Scales		
Siren-Non-rotating		
Siren-Rotating		
Transport Vehicles		
Trucks		
Water		
Weapons		



**PLEASE TURN PAGE TO BEGIN NEXT SECTION.**



## ACCIDENT CATEGORIES

**Please answer the following question about your accident categories. This information will be used when creating the FEMIS map database.**

7. Please list below the accident categories for your site. For each category, please indicate the range of downwind No Effects distances (for example, from 0 km to 2 km, or 2 km to 6 km). Add more categories if needed.

Category I	Downwind No Effects distance from _____ km to _____ km
Category II	Downwind No Effects distance from _____ km to _____ km
Category III	Downwind No Effects distance from _____ km to _____ km
Category IV	Downwind No Effects distance from _____ km to _____ km
Category V	Downwind No Effects distance from _____ km to _____ km
Category ____	Downwind No Effects distance from _____ km to _____ km
Category ____	Downwind No Effects distance from _____ km to _____ km

## FACILITIES

**Please answer the following question about your facilities. This information will be used when creating the FEMIS facilities database.**

8. Use the attached Table 1 to list basic information about facilities you would like to have in your FEMIS facilities database. For the Priority 1 data, IEM needs only the following information:

- A. Facility Name
- B. Facility Address
- C. Latitude and Longitude (if known)
- D. EPZ Containing the Facility

You may also provide this information electronically in a word processor or spreadsheet format, if desired.

If you have more facilities than can fit in Table 1, please make extra copies of Table 1.

Further facility information would be gathered as Priority 2 data.

## CONTACT INFORMATION

**Please provide the requested contact information.**

9. Name of Person Who Completed This Survey:

\_\_\_\_\_

10. Phone # of Person Who Completed This Survey:

\_\_\_\_\_





***YOU HAVE NOW COMPLETED THIS SURVEY.  
THANK YOU FOR YOUR TIME.***



**Appendix B**  
**FEMIS Database Changes**



## Appendix B – FEMIS Database Changes

The FEMIS database consists of the Oracle relational database and the GIS data.

### Oracle Database Schema Changes

The following list details all the Oracle database schema changes that have been implemented to update the database from FEMIS v1.5 to the current version, FEMIS v1.5.3.

Table Name	Column Name/Definition	Description of Change
AEGL	See Appendix C for definitions	Added table to database
DATA_ACK		Dropped table from database
DDN_QUEUE	See appendix C for definitions	Added table to database
EOC_OBJECTIVE	AEGL_LEVEL	Added column to table. Defined as varchar2(40)
EVACUATION_SITUATION		Dropped table from database
EVACUATION_PLAN		Dropped table from database
EVACUATION_ZONES		Dropped table from database
EV_I_175_TA_PARMS		Dropped table from database
EV_I_195_CASE_NODE		Dropped table from database
EV_I_195_NODE		Dropped table from database
EV_I_021_TURNS		Dropped table from database
EV_I_050_ENTRY_LINKS		Dropped table from database
EV_I_051_SOURCE_SINK		Dropped table from database
EV_I_011_LINK_DEFINITION		Dropped table from database
EV_I_003_TIME_PERIODS		Dropped table from database
EV_I_052_LOAD_FACTORS		Dropped table from database
EV_I_176_179_DEST		Dropped table from database
EV_I_176_179_SOURCE		Dropped table from database
EV_I_049_RING_NUMBER		Dropped table from database
EV_I_049_RING_SECTORS		Dropped table from database
EV_I_178_DEST_ATTRACTORS		Dropped table from database
EV_I_000_DESCRIPTION		Dropped table from database
EV_I_011_LINK_CHANNEL		Dropped table from database
EV_I_049_RING		Dropped table from database

Table Name	Column Name/Definition	Description of Change
EV_I_035_036_SIGNAL		Dropped table from database
EV_I_015_LINK_DEF_FREEMWAY		Dropped table from database
EV_I_015_LINK_FLOW		Dropped table from database
EV_I_026_TURNS_FREEMWAY		Dropped table from database
EV_I_177_CENTROIDS		Dropped table from database
EV_I_034_FREEMWAY_SUB_PARM		Dropped table from database
EV_O_3_TIME_PERIOD		Dropped table from database
EV_O_7_ERROR_VALUES		Dropped table from database
EV_O_7_ERRORS		Dropped table from database
EV_O_5_CASE_SUMMARY		Dropped table from database
EV_O_6_TIME_STEP		Dropped table from database
EV_O_4_STEP_LOAD		Dropped table from database
EV_O_8_ERRORS		Dropped table from database
EV_O_1_LINK_STATISTICS		Dropped table from database
EP_ERROR_CODES		Dropped table from database
ROAD_QUALIFICATION		Dropped table from database
ROUTE		Dropped table from database
ROUTE_SEGMENT		Dropped table from database
G_DEF_HAZARD_CLASS	EOC_NAME	Added column to table. Defined as a varchar2 (30)
MET_CONDITION	BATTERY_VOLTAGE	Added column to table. Defined as a NUMBER(4,1)

**Appendix C**  
**FEMIS Data Dictionary**

# Appendix C – FEMIS Data Dictionary

For the FEMIS data dictionary, the following lists the table name (in bold), a description of the table, and the fields of the table.

The Sequence is the order of the field in each table; the Name is the name of the field; the N heading is the null field, where N means not null and Y means null; and the Format shows the Oracle data format of the field.

Table Name

## **ACCIDENT\_CLASS**

The Accident Class table is a validation table for different types of accidents.

Seq	Name	N	Format	Description
1	ACCIDENT_CLASS	N	VARCHAR2(20)	Valid accident class name such as Non-Surety, Community
2	ACCIDENT_CLASS_DESCRIPTION	Y	VARCHAR2(127)	A description of the accident class

Table Name

## **ACTIVITY**

The Activity table contains a list of valid CSEPP activities.

Seq	Name	N	Format	Description
1	ACTIVITY_CODE	N	VARCHAR2(20)	Valid activity that can be associated with a plan or work activity
2	ACTIVITY_DESCRIPTION	Y	VARCHAR2(127)	Description of the activity

Table Name

## **AEGL**

The AEGL table contains parameters to define AEGL dosage approximations based on duration of release.

Seq	Name	N	Format	Description
1	AEGL_ID	N	NUMBER(9)	Unique identifier for AEGL levels.
2	AEGL_LEVEL_NUM	Y	NUMBER(1)	AEGL level number from 1 to 3 (with 3 being most serious)
3	AEGL_LEVEL_NAME	Y	VARCHAR2(2)	Minimum minute value for range of this AEGL record
4	AEGL_AGENT	Y	VARCHAR2(2)	Two character D2PC agent code
5	AEGL_MIN_MINUTES	Y	NUMBER(7,2)	Minimum minute value for range of this AEGL record
6	AEGL_MAX_MINUTES	Y	NUMBER(7,2)	Maximum minute value for range of this AEGL record
7	AEGL_VALUE	Y	NUMBER(9,5)	AEGL dosage approximation value for given time range/agent

Table Name

## **AGENCY**

The Agency table contains CSEPP agencies and other agencies that are important to the mission of FEMIS.

Seq	Name	N	Format	Description
1	AGENCY_CODE	N	NUMBER(9,0)	Unique identifiers for an agency
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	AGENCY_NAME	Y	VARCHAR2(64)	Name of agency
4	AGENCY_TYPE	Y	VARCHAR2(20)	Type of agency
5	AGENCY_ACRONYM	Y	VARCHAR2(20)	Acronym for agency
6	EOC_NAME	Y	VARCHAR2(30)	Full name of the EOC
7	STREET_ADDRESS1	Y	VARCHAR2(40)	First street address for the agency
8	STREET_ADDRESS2	Y	VARCHAR2(40)	Second street address for the agency
9	CITY_NAME	Y	VARCHAR2(20)	Name of the city where the agency is located
10	STATE_CODE	Y	VARCHAR2(2)	State code for the state the agency is located
11	ZIP_CODE	Y	VARCHAR2(10)	Zip code for the agency address
12	MAIN_PHONE	Y	VARCHAR2(30)	Primary phone number for contacting the agency
13	FAX_PHONE	Y	VARCHAR2(30)	Fax phone number for the agency
14	CEL_PHONE	Y	VARCHAR2(30)	Cell phone number for contacting agency
15	BEEPER_PHONE	Y	VARCHAR2(30)	Beeper phone number for contacting agency
16	EMAIL_ADDRESS	Y	VARCHAR2(80)	E-mail address of agency
17	EMAIL_ADDRESS2	Y	VARCHAR2(80)	Secondary email address of agency
18	WEB_ADDRESS	Y	VARCHAR2(4000)	Web address for the agency
19	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
20	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**ALTERNATE\_ACCESS**

The Alternate Access table is used for shortcut access to defined FEMIS functionality.

Seq	Name	N	Format	Description
1	ACCESS_ID	N	NUMBER(9,0)	Unique identifier for the shortcut
2	HAZARD_ID	Y	NUMBER(9,0)	Identifier of the hazard this record is associated with
3	MENU_NAME	Y	VARCHAR2(40)	Caption used by the menu
4	SHORTCUT_NAME	Y	VARCHAR2(35)	Shortcut ID used by the toolbar
5	CP_NAME	Y	VARCHAR2(60)	Control point used for privilege checking
6	CATEGORY	Y	VARCHAR2(30)	Category used by the toolbar
7	AVAIL_ON_DESKTOP	N	VARCHAR2(1)	Should the Shortcut be available on the desktop
8	AVAIL_ON_TOOLBAR	N	VARCHAR2(1)	Should the Shortcut be available on the toolbar
9	AVAIL_ON_GIS_DISPLAY	N	VARCHAR2(1)	Should the Shortcut be available on the GIS Display menu

10	AVAIL_ON_GIS_FUNCTION	N VARCHAR2(1)	Should the Shortcut be available on the GIS Function menu
11	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
12	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**APPROACH**

The Approach table has a list of valid approaches to accomplish the mission of FEMIS.

Seq Name	N Format	Description	
1	PLANNING_APPROACH	N VARCHAR2(40)	Short description of the approach used in the plan
2	PLAN_APP_DESCRIPTION	Y VARCHAR2(127)	Long description of the approach used in the plan

Table Name

**BTB\_DEPENDENCE**

The working Planning table that contains the dependencies between tasks in the plan.

Seq Name	N Format	Description	
1	PLAN_REF_ID	N NUMBER(9,0)	Reference ID of the plan associated with the task for which the dependence is being defined
2	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3	PD_UNIQUE_REF_NUM	N NUMBER(7,0)	Reference ID of the task for which the dependence is being defined
4	PRED_PLAN_REF_ID	N NUMBER(9,0)	Reference ID of the plan associated with the predecessor task. For practical purposes, the same as plan_ref_id.
5	PRED_PD_UNIQUE_REF_NUM	N NUMBER(7,0)	Reference ID of the predecessor task
6	FOLDER_ID	N NUMBER(9,0)	Identifier of the folder this record is associated with
7	DEPENDENCY_TYPE	N VARCHAR2(10)	Dependency type, as in normal planning tool definitions. Only a limited set are allowed here.
8	LEAD_LAG_TIME	N NUMBER(6,2)	Task lead or lag time in minutes

Table Name

**BTB\_PLAN\_DETAIL**

The working Plan Detail table contains the lower level detail of an electronic plan.

Seq	Name	N	Format	Description
1	PLAN_REF_ID	N	NUMBER(9,0)	Reference ID of the currently committed plan
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	PD_UNIQUE_REF_NUM	N	NUMBER(7,0)	Task number unique to plan
4	FOLDER_ID	N	NUMBER(9,0)	Identifier of the folder this record is associated with
5	PD_NAME	N	VARCHAR2(254)	Task name
6	PD_DESCRIPTION	Y	VARCHAR2(4000)	Task description
7	RESPONSIBLE_AGENCY	Y	NUMBER(9,0)	Code for associated agency
8	RESPONSIBLE_DEPT	Y	NUMBER(9,0)	Code for associated department
9	RESPONSIBLE_POSITION	Y	VARCHAR2(20)	Code for associated eoc position
10	RESP_PERSON_REF_NUM	Y	NUMBER(9,0)	Id of associated responsible person
11	DECISION_POINT	N	VARCHAR2(1)	Is this task a decision point?
12	START_TIME_TARGET	Y	DATE	Target start time. Currently unused.
13	FINISH_TIME_TARGET	Y	DATE	Target finish time. Currently unused.
14	DURATION_TARGET	Y	NUMBER(8,0)	Target duration in minutes. Currently unused.
15	START_TIME_CALC	Y	DATE	Projected start date/time
16	FINISH_TIME_CALC	Y	DATE	Projected finish date/time
17	DURATION_CALC	Y	NUMBER(8,0)	Projected duration in minutes
18	PD_PRIORITY	N	NUMBER(2,0)	Task priority level
19	EXTERNAL_INTERFACE	N	VARCHAR2(1)	Does this task interface outside of EOC?
20	PD_NOTES	Y	VARCHAR2(4000)	Originally intended as a pointer to a document, this field is unused
21	PD_COST	Y	NUMBER(10,2)	Task cost in dollars
22	START_TIME_ACTUAL	Y	DATE	Actual start date/time
23	FINISH_TIME_ACTUAL	Y	DATE	Actual finish date/time
24	DURATION_ACTUAL	Y	NUMBER(8,0)	Actual duration in minutes
25	PD_ORIGIN	N	VARCHAR2(10)	Task origin. Programmatically set.
26	PD_OPS_STATUS	Y	VARCHAR2(15)	Operational status
27	LOGGED_EVENT_FLAG	N	VARCHAR2(1)	Is this task a logged event?
28	PD_SEQUENCE_NUM	N	NUMBER(10,0)	Task sequence number
29	START_TIME_BASELINE	Y	DATE	Planned start date/time
30	FINISH_TIME_BASELINE	Y	DATE	Planned finish date/time
31	DURATION_BASELINE	Y	NUMBER(8,0)	Planned duration in minutes
32	PLANNING_STAGE	Y	VARCHAR2(30)	Stage of task.
33	PLANNING_PHASE	Y	VARCHAR2(20)	Phase of task
34	LEVEL_NUM	N	NUMBER(1,0)	Hierarchical level number of task = [ 1, 2, 3 ]
35	EMERGENCY_SUPPORT_FN	Y	VARCHAR2(30)	Emergency support function of task
36	GEO_OBJECT_ID	Y	NUMBER(9,0)	Unique identifier of the geographic object associated with this record
37	GEO_LON_OR_DIST	Y	NUMBER(20,6)	Longitude or the offset distance for the geographic object associated with this record

38	GEO_LAT_OR_DIR	Y NUMBER(20,6)	Latitude or offset direction for the geographic object associated with this record
39	GEO_LOC_TYPE	Y VARCHAR2(6)	Location type (lat/lon value or offset) for the geographic object associated with this record

Table Name

**BTB\_PLAN\_HEADER**

The working Plan Header table contains high level, header information about an electronic plan.

Seq Name	N	Format	Description
1		NUMBER(9,0)	Reference ID of the currently committed plan
2		NUMBER(9,0)	Exercise number for this record
3		NUMBER(9,0)	Identifier of the folder this record is associated with
4		DATE	Date/Time plan was last committed
5		VARCHAR2(64)	Plan name. Forced programmatically to be unique.
6		VARCHAR2(11)	Development status of plan
7		VARCHAR2(30)	Full name of the EOC
8		VARCHAR2(4000)	Not currently used
9		NUMBER(7,0)	Maximum value of btb_plan_detail pd_unique_ref_num at any point in time
10		NUMBER(10,0)	Maximum value of btb_plan_detail btb_sequence_num at any point in time
11		VARCHAR2(4000)	Originally intended as a pointer to a document, this field is unused
12		VARCHAR2(20)	Not currently used.
13		VARCHAR2(40)	Not currently used.
14		VARCHAR2(40)	Goal of plan
15		NUMBER(9,0)	Identifier of the hazard this record is associated with

Table Name

**BTB\_RESOURCE\_ASSIGNMENT**

The working Resource Assignment table show the resources assigned to the details of an electronic plan.

Seq Name	N	Format	Description
1		NUMBER(9,0)	Reference ID of the associated plan
2		NUMBER(9,0)	Exercise number for this record
3		NUMBER(7,0)	ID of the associated task
4		NUMBER(3,0)	Sequential number for all resource assignments to this particular task



5	FOLDER_ID	N	NUMBER(9,0)	Identifier of the folder this record is associated with
6	RESOURCE_REF_NUM	N	NUMBER(9,0)	Reference number for resource definition
7	RESOURCE_QUANTITY	N	NUMBER(10,0)	Quantity of the resource assigned
8	RESOURCE_NOTE	Y	VARCHAR2(127)	Note about this specific resource assignment
9	RESPONSIBLE_EOC	Y	VARCHAR2(30)	Name of EOC
10	PLAN_RESOURCE_DISPOS	Y	VARCHAR2(30)	State of resource after use
11	PLAN_RESOURCE_ID	Y	NUMBER(9,0)	Unused
12	PLAN_POC_AGENCY	Y	NUMBER(9,0)	Code of associated agency
13	PLAN_POC_DEPT	Y	NUMBER(9,0)	Code of associated department
14	PLAN_POC_POSITION	Y	VARCHAR2(30)	Code of associated eoc position
15	OWNER_CODE	Y	NUMBER(9,0)	Agency code of resource owner
16	GEO_OBJECT_ID	Y	NUMBER(9,0)	Unique identifier of the geographic object associated with this record
17	GEO_LON_OR_DIST	Y	NUMBER(20,6)	Longitude or the offset distance for the geographic object associated with this record
18	GEO_LAT_OR_DIR	Y	NUMBER(20,6)	Latitude or offset direction for the geographic object associated with this record
19	GEO_LOC_TYPE	Y	VARCHAR2(6)	Location type (lat/lon value or offset) for the geographic object associated with this record

Table Name

**BUNKER**

The Bunker table contains information about the sites where chemical weapons are stored.

Seq	Name	N	Format	Description
1	BUNKER_ID	N	NUMBER(9,0)	Identifier for this igloo
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	BUNKER_NAME	N	VARCHAR2(30)	Name of Igloo
4	GEO_OBJECT_ID	N	NUMBER(9,0)	Geo Object ID associated to the igloo
5	SITE_NAME	Y	VARCHAR2(30)	Name of the site
6	DESCRIPTION	Y	VARCHAR2(4000)	Description of the igloo
7	COMMENTS	Y	VARCHAR2(4000)	Comments of the igloo
8	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
9	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**BUNKER\_CONTENT**

The Bunker Content table contains information about the chemical weapons stored in a Bunker or often called an Igloo.

Seq	Name	N	Format	Description
1	BUNKER_ID	N	NUMBER(9,0)	Identifier for this igloo

2	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3	AGENT_CODE	N VARCHAR2(2)	Agent Code
4	MUNITION_TYPE	N VARCHAR2(4)	Munition type
5	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
6	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**CASE\_ATTR**

The table contains specific attributes for a case.

Seq Name	N Format	Description
1	CASE_MANAGER_ID N NUMBER(9,0)	Unique identifier for a case in Case Management subsystem
2	EXERCISE_NUM N NUMBER(9,0)	Exercise number for this record
3	MODEL_ID N NUMBER(9,0)	Unique identifier for a model
4	ATTR_INDEX N NUMBER(9,0)	Column number for spreadsheet placement of attr_value in Case Management subsystem
5	ATTR_VALUE Y VARCHAR2(2000)	Value of attribute
6	XMIT_INIT_DATE Y DATE	Date of last modification of this record
7	REPLICATION_ID N NUMBER(12,0)	Database control column used for integrity

Table Name

**CASE\_MANAGER**

The table contains general attributes for a case.

Seq Name	N Format	Description
1	CASE_MANAGER_ID N NUMBER(9,0)	Unique identifier for a case in Case Management subsystem
2	EXERCISE_NUM N NUMBER(9,0)	Exercise number for this record
3	FOLDER_ID N NUMBER(9,0)	Identifier of the folder this record is associated with
4	HAZARD_ID N NUMBER(9,0)	Identifier of the hazard this record is associated with
5	MODEL_ID N NUMBER(9,0)	Unique identifier for a model
6	CASE_ID N NUMBER(9,0)	Unique identifier for a case external to CM
7	HC_PREDECESSOR_ID Y NUMBER(9,0)	Unique identifier for a case external to CM on which current case is based
8	CHANGE_DATE N DATE	Date/Time stamp of creation or last modification
9	HC_CHANGE_DESC Y VARCHAR2(4000)	Description of changes made in moving from predecessor case
10	HIGHEST_REV_FLAG Y VARCHAR2(1)	If = Y then this revision is the most recent (highest) for the case
11	CASE_NUMBER N NUMBER(9,0)	Number presented to the user identifying the case
12	CASE_REV Y NUMBER(9,0)	Revision number (if applicable) for the case

13	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
14	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**CASUALTY**

The Casualty table contains summary information about the victims of an accident.

Seq	Name	N Format	Description
1	VIC_TK_REF_NUM	N NUMBER(9,0)	Casualty tracking reference number
2	CASUALTY_MOD_DATE	N DATE	Date casualty record last modified
3	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
4	INJURY_CODE	Y VARCHAR2(20)	Injury code
5	OK_RELEASE_FLAG	Y VARCHAR2(1)	OK to release information
6	INJURY_NOTES	Y VARCHAR2(4000)	Injury notes
7	CONTAMINATED_IND	Y VARCHAR2(1)	Indicator of contamination
8	CASUALTY_NOTE	Y VARCHAR2(4000)	Casualty note
9	UPDATE_PERSON_REF_NUM	N NUMBER(9,0)	Reference to person who updated information
10	CASUALTY_STATUS_CODE	Y NUMBER(1,0)	Casualty status code
11	VICTIM_HT_INCHES	Y NUMBER(3,0)	Casualty height in inches.
12	VICTIM_WT_LBS	Y NUMBER(3,0)	Casualty weight in pounds.
13	VICTIM_HAIR_COLOR	Y VARCHAR2(10)	Casualty hair color
14	VICTIM_EYE_COLOR	Y VARCHAR2(10)	Casualty eye color
15	VICTIM_RACE	Y VARCHAR2(20)	Casualty ethnicity
16	VICTIM_OTHER_PHY_DESC	Y VARCHAR2(255)	Casualty other description
17	MED_COND_NOTES	Y VARCHAR2(4000)	Medical condition notes
18	VICTIM_BADGE_NUM	Y VARCHAR2(10)	Casualty badge number
19	VICTIM_EMP_NUM	Y VARCHAR2(10)	Casualty employee number
20	VICTIM_AGENCY_CODE	Y NUMBER(9,0)	Casualty agency code
21	VICTIM_WORK_PHONE	Y VARCHAR2(30)	Casualty work phone
22	WORK_STREET_ADDRESS1	Y VARCHAR2(40)	Casualty address
23	WORK_STREET_ADDRESS2	Y VARCHAR2(40)	Casualty address
24	WORK_CITY_NAME	Y VARCHAR2(20)	Casualty address
25	WORK_STATE_CODE	Y VARCHAR2(2)	Casualty address
26	WORK_ZIP_CODE	Y VARCHAR2(10)	Casualty address
27	INJURY_DATE	Y DATE	Injury date
28	VICTIM_KNOWN_MED_COND	Y VARCHAR2(4000)	Casualty prior medical condition
29	DECONTAM_FLAG	Y VARCHAR2(1)	Decontaminated
30	SEVERITY_CODE	Y VARCHAR2(12)	Severity code
31	INJURED_ONPOST_FLAG	Y VARCHAR2(1)	Injured on post
32	NOK_NOTIFY_STATUS_FLAG	Y VARCHAR2(1)	Next of kin notified
33	ACCIDENT_ID	Y NUMBER(9,0)	Accident ID
34	ACCIDENT_MOD_DATE	Y DATE	Date accident last modified
35	EOC_NAME	Y VARCHAR2(30)	Full name of the EOC
36	HAZARD_ID	Y NUMBER(9,0)	Identifier of the hazard this record is associated with
37	GEO_OBJECT_ID	Y NUMBER(9,0)	Unique identifier of the geographic object associated with this record
38	FACILITY_ID	Y NUMBER(9,0)	Identifier of a facility associated with the casualty

39	GEO_LON_OR_DIST	Y	NUMBER(20,6)	Longitude or the offset distance for the geographic object associated with this record
40	GEO_LAT_OR_DIR	Y	NUMBER(20,6)	Latitude or offset direction for the geographic object associated with this record
41	GEO_LOC_TYPE	Y	VARCHAR2(6)	Location type (lat/lon value or offset) for the geographic object associated with this record

Table Name

**CAS\_INQUIRY**

The Causality Inquiry table contains information about accident inquiries.

Seq Name	N	Format	Description	
1	VIC_TK_REF_NUM	N	NUMBER(9,0)	Casualty tracking reference number
2	CASUALTY_MOD_DATE	N	DATE	Date casualty record last modified
3	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
4	INQUIRY_ID	N	NUMBER(9,0)	Inquiry identification
5	INQ_TK_REF_NUM	Y	NUMBER(9,0)	Inquiry tracking reference number
6	INQ_NAME	Y	VARCHAR2(40)	Inquiry name
7	INFO_REQUESTED	Y	VARCHAR2(255)	Information request
8	INFO_NOTES	Y	VARCHAR2(2000)	Information notes
9	INFO_RELEASED_FLAG	Y	VARCHAR2(1)	Indicates if information was released
10	INFO_RELEASE_DATE	N	DATE	Date information was released
11	REL_PERSON_REF_NUM	Y	NUMBER(9,0)	Reference to person on whom information released

Table Name

**CENSUS\_BLOCK**

The Census Block table defines a block name within a tract.

Seq Name	N	Format	Description	
1	TRACT_NAME	N	VARCHAR2(30)	Census Tract short name
2	BLOCK_NAME	N	VARCHAR2(30)	Census Block short name
3	STATE_FIPS_CODE	N	VARCHAR2(2)	State FIPS code
4	COUNTY_FIPS_CODE	N	VARCHAR2(3)	County FIPS code
5	CENSUS_BLOCK_NAME	N	VARCHAR2(30)	Full Census Block name

Table Name

**CENSUS\_SUBDIVISION**

The Census Subdivision table defines a subdivisions within a county.

Seq Name	N	Format	Description	
1	SUBDIVISION_NAME	N	VARCHAR2(30)	Census Subdivision short name
2	STATE_FIPS_CODE	N	VARCHAR2(2)	State FIPS code
3	COUNTY_FIPS_CODE	N	VARCHAR2(3)	County FIPS code
4	CSD_NAME	N	VARCHAR2(30)	Full Census Subdivision name

Table Name

**CENSUS\_TRACT**

The Census Tract table defines a tract within a district.

Seq Name	N Format	Description
1 TRACT_NAME	N VARCHAR2(30)	Census Tract short name
2 STATE_FIPS_CODE	N VARCHAR2(2)	State FIPS code
3 COUNTY_FIPS_CODE	N VARCHAR2(3)	County FIPS code
4 CENSUS_TRACT_NAME	N VARCHAR2(30)	Full Census Tract name

Table Name

**CHEMICAL\_AGENT**

The Chemical Agent table describes the agents stored at a CSEPP site.

Seq Name	N Format	Description
1 AGENT_CODE	N VARCHAR2(2)	Code for chemical agent
2 AGENT_TYPE	Y VARCHAR2(30)	Name of chemical agent
3 AGENT_DESCRIPTION	Y VARCHAR2(127)	Description of chemical agent

Table Name

**CONTROL\_POINT**

The Control Point table contains the software branch points used to control user access privileges.

Seq Name	N Format	Description
1 CP_NAME	N VARCHAR2(60)	Control point name
2 CP_DESCRIPTION	Y VARCHAR2(127)	Description of the control point
3 CP_TYPE	N VARCHAR2(30)	Whether the control point is general, CSEPP, Site Defined Status Board or Other Hazard
4 HAZARD_ID	Y NUMBER(9,0)	Identifier of the hazard this record is associated with
5 XMIT_INIT_DATE	Y DATE	Date of last modification of this record
6 REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**COUNTY**

The County table contains the name of counties and the state they are in.

Seq Name	N Format	Description
1 STATE_FIPS_CODE	N VARCHAR2(2)	State FIPS code
2 COUNTY_FIPS_CODE	N VARCHAR2(3)	County FIPS code
3 COUNTY_NAME	Y VARCHAR2(30)	County name
4 STATE_CODE	Y VARCHAR2(2)	State Postal code

Table Name

**CSEPP\_ACCIDENT**

The CSEPP\_Accident table describes the chemical or other type of accident that has occurred.

Seq Name	N Format	Description
1 ACCIDENT_ID	N NUMBER(9,0)	Unique identifier for a CSEPP Event

2	ACCIDENT_MOD_DATE	N	DATE	Date and time this DB record was created
3	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
4	ACCIDENT_DESCRIPTION	Y	VARCHAR2(127)	Event description (provided by user or, for EMIS events, DEI). Can be modified by Onpost user
5	ACCIDENT_DATE	N	DATE	Date and time of Release (Event start time)
6	ACCIDENT_COMMENT	Y	VARCHAR2(1999)	Comments on Event
7	ACCIDENT_CLOSED_DATE	Y	DATE	Date and time event was ended
8	ACCIDENT_IN_PROG_FLAG	N	VARCHAR2(1)	Flag indicating if event was in progress at the time of this record
9	CAI_STATUS_CODE	N	NUMBER(1,0)	Indicates whether record is current (1) or not (0). The most recently entered record is current; all other records are historical.
10	CAI_DECLARING_EOC	N	VARCHAR2(30)	EOC of user declaring event (only Onpost users can declare events, for now)
11	ACTIVITY_CODE	Y	VARCHAR2(20)	Activity (usually from WP) likely leading to event
12	ACCIDENT_CLASS	Y	VARCHAR2(20)	Classification of event
13	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
14	EMIS_EVENT_NUM	Y	NUMBER(4,0)	Event number (EMIS events only)
15	ACCIDENT_ACTUAL_DATE	Y	DATE	Date and time decision was made to change event data
16	SET_ACCIDENT_FLAG	Y	VARCHAR2(1)	Flag indicating if event is the Set Event
17	ACCIDENT_ACTION	Y	VARCHAR2(256)	Action triggering generation of this event record
18	UPDATE_USER_NAME	Y	VARCHAR2(48)	Reference to person who updated information
19	UPDATE_USER_CODE	Y	VARCHAR2(8)	Reference to person who updated information
20	FOLDER_ID	Y	NUMBER(9,0)	Identifier of the folder this record is associated with
21	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity
22	HAZARD_CASE_ID	Y	NUMBER(9,0)	Identifier for the hazard/case associated with this event

Table Name

**D2\_INPUT**

The table that contains common D2 input parameters and other control information.

Seq	Name	N	Format	Description
1	D2_CASE_ID	N	NUMBER(9,0)	Unique identifier for a D2PC case
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	D2_CASE_NUM	Y	NUMBER(9,0)	Case number
4	D2_I_EVENT_DT	Y	VARCHAR2(28)	Date and time of release
5	D2_I_EVENT_LA	Y	NUMBER(12,6)	Source latitude

6	D2_I_EVENT_LO	Y NUMBER(12,6)	Source longitude
7	D2_I_IGLOO	Y VARCHAR2(30)	Igloo
8	D2_I_DISTANCE_FROM_IGLOO	Y NUMBER(8,2)	Offset distance from igloo (meters)
9	D2_I_DIRECTION_FROM_IGLOO	Y VARCHAR2(2)	Offset direction from igloo
10	D2_I_MOD_DT	Y DATE	Date and time of saving this record
11	D2_I_DESC	Y VARCHAR2(127)	Case description
12	D2_I_TWR_STAB	Y VARCHAR2(9)	Met tower for stability reading
13	D2_I_CLS_STAB	Y NUMBER(2,0)	Met cluster for stability reading
14	D2_I_TWR_WSPD	Y VARCHAR2(9)	Met tower for wind speed reading
15	D2_I_CLS_WSPD	Y NUMBER(2,0)	Met cluster for wind speed reading
16	D2_I_TWR_WDIR	Y VARCHAR2(9)	Met tower for wind direction reading
17	D2_I_CLS_WDIR	Y NUMBER(2,0)	Met cluster for wind direction reading
18	D2_I_TWR_TEMP	Y VARCHAR2(9)	Met tower for ground temperature reading
19	D2_I_CLS_TEMP	Y NUMBER(2,0)	Met cluster for ground temperature reading
20	D2_I_TWR_ATMP	Y VARCHAR2(9)	Met tower for air temperature reading
21	D2_I_CLS_ATMP	Y NUMBER(2,0)	Met cluster for air temperature reading
22	D2_I_TWR_CLDH	Y VARCHAR2(9)	Met tower for cloud height reading
23	D2_I_CLS_CLDH	Y NUMBER(2,0)	Met cluster for cloud height reading
24	D2_I_TWR_HMLR	Y VARCHAR2(9)	Met tower for height of mixing layer reading
25	D2_I_CLS_HMLR	Y NUMBER(2,0)	Met cluster for height of mixing layer reading
26	D2_I_NOV	Y NUMBER(1,0)	Novice level
27	D2_I_NOV_SRC	Y VARCHAR2(1)	Novice level source
28	D2_I_LOC	Y VARCHAR2(3)	Site Location
29	D2_I_LOC_SRC	Y VARCHAR2(1)	Site Location source
30	D2_I_SEA	Y VARCHAR2(3)	Season
31	D2_I_SEA_SRC	Y VARCHAR2(1)	Season source
32	D2_I_AGN	Y VARCHAR2(2)	Agent
33	D2_I_AGN_SRC	Y VARCHAR2(1)	Agent source
34	D2_I_TMP	Y NUMBER(8,4)	Temperature (deg Celcius)
35	D2_I_TMP_SRC	Y VARCHAR2(1)	Temperature source
36	D2_I_VDP	Y NUMBER(1,0)	Vapor deposition
37	D2_I_VDP_SRC	Y VARCHAR2(1)	Vapor deposition source
38	D2_I_OPO	Y NUMBER(1,0)	Code to control output
39	D2_I_OPO_SRC	Y VARCHAR2(1)	Code to control output source
40	D2_I_PMM	Y NUMBER(6,2)	Atmospheric pressure (mm Hg)
41	D2_I_PMM_SRC	Y VARCHAR2(1)	Atmospheric pressure source
42	D2_I_BRT	Y NUMBER(6,2)	Breathing rate (liters/min)
43	D2_I_BRT_SRC	Y VARCHAR2(1)	Breathing rate source
44	D2_I_2MC	Y NUMBER(1,0)	Two minute correction
45	D2_I_2MC_SRC	Y VARCHAR2(1)	Two minute correction source
46	D2_I_NDI	Y NUMBER(2,0)	Number of dosages
47	D2_I_NDI_SRC	Y VARCHAR2(1)	Number of dosages source
48	D2_I_IMA	Y NUMBER(1,0)	Method of assessment control
49	D2_I_IMA_SRC	Y VARCHAR2(1)	Method of assessment control source

50	D2_I_NCI	Y NUMBER(2,0)	Number of concentrations
51	D2_I_NCI_SRC	Y VARCHAR2(1)	Number of concentrations source
52	D2_I_IYR	Y NUMBER(4,0)	Year of Release
53	D2_I_IYR_SRC	Y VARCHAR2(1)	Year of Release source
54	D2_I_MON	Y VARCHAR2(3)	Month of Release
55	D2_I_MON_SRC	Y VARCHAR2(1)	Month of Release source
56	D2_I_IDD	Y NUMBER(2,0)	Day of Release
57	D2_I_IDD_SRC	Y VARCHAR2(1)	Day of Release source
58	D2_I_HRS	Y NUMBER(4,0)	Hours of Release
59	D2_I_HRS_SRC	Y VARCHAR2(1)	Hours of Release source
60	D2_I_CCT	Y NUMBER(2,0)	Cloud cover (tenths; i.e., 5 tenths = 50%)
61	D2_I_CCT_SRC	Y VARCHAR2(1)	Cloud cover source
62	D2_I_CHT	Y NUMBER(8,2)	Cloud height (feet)
63	D2_I_CHT_SRC	Y VARCHAR2(1)	Cloud height source
64	D2_I_ALF	Y NUMBER(6,2)	Y dispersion coefficient
65	D2_I_ALF_SRC	Y VARCHAR2(1)	Y dispersion coefficient source
66	D2_I_SYR	Y NUMBER(6,2)	Reference Sigma Y
67	D2_I_SYR_SRC	Y VARCHAR2(1)	Reference Sigma Y source
68	D2_I_BTA	Y NUMBER(6,2)	Z dispersion coefficient
69	D2_I_BTA_SRC	Y VARCHAR2(1)	Z dispersion coefficient source
70	D2_I_SZR	Y NUMBER(6,2)	Reference Sigma Z
71	D2_I_SZR_SRC	Y VARCHAR2(1)	Reference Sigma Z source
72	D2_I_WOO	Y VARCHAR2(2)	Woods type
73	D2_I_WOO_SRC	Y VARCHAR2(1)	Woods type source
74	D2_I_FMW	Y NUMBER(8,3)	Molecular weight (User-defined agent)
75	D2_I_FMW_SRC	Y VARCHAR2(1)	Molecular weight (User-defined agent) source
76	D2_I_FMV	Y NUMBER(11,3)	Molecular volume (User-defined agent)
77	D2_I_FMV_SRC	Y VARCHAR2(1)	Molecular volume (User-defined agent) source
78	D2_I_DN25	Y NUMBER(6,3)	Density (User-defined agent) (g/cm <sup>3</sup> )
79	D2_I_DN25_SRC	Y VARCHAR2(1)	Density (User-defined agent) source
80	D2_I_VAP	Y NUMBER(6,3)	Vapor pressure (User-defined agent) (mm Hg)
81	D2_I_VAP_SRC	Y VARCHAR2(1)	Vapor pressure (User-defined agent) source
82	D2_I_BPT	Y NUMBER(6,2)	Boiling point (User-defined agent) (Kelvins)
83	D2_I_BPT_SRC	Y VARCHAR2(1)	Boiling point (User-defined agent) source
84	D2_I_ANA	Y NUMBER(6,2)	Antoine constant A (User-defined agent)
85	D2_I_ANA_SRC	Y VARCHAR2(1)	Antoine constant A (User-defined agent) source
86	D2_I_ANB	Y NUMBER(6,2)	Antoine constant B (User-defined agent)
87	D2_I_ANB_SRC	Y VARCHAR2(1)	Antoine constant B (User-defined agent) source
88	D2_I_ANC	Y NUMBER(6,2)	Antoine constant C (User-defined agent)
89	D2_I_ANC_SRC	Y VARCHAR2(1)	Antoine constant C (User-defined agent) source



90	D2_I_FRZ	Y NUMBER(6,2)	Freezing point (User-defined agent) (deg Celcius)
91	D2_I_FRZ_SRC	Y VARCHAR2(1)	Freezing point (User-defined agent) source
92	D2_I_SLA	Y NUMBER(12,6)	Station latitude
93	D2_I_SLA_SRC	Y VARCHAR2(1)	Station latitude source
94	D2_I_SLO	Y NUMBER(12,6)	Station longitude
95	D2_I_SLO_SRC	Y VARCHAR2(1)	Station longitude source
96	D2_I_SUN	Y NUMBER(6,3)	Sun elevation angle
97	D2_I_SUN_SRC	Y VARCHAR2(1)	Sun elevation angle source
98	D2_I_FRO	Y NUMBER(6,3)	Frost slope
99	D2_I_FRO_SRC	Y VARCHAR2(1)	Frost slope source
100	D2_I_ZZO	Y NUMBER(7,3)	Roughness length (cm)
101	D2_I_ZZO_SRC	Y VARCHAR2(1)	Roughness length source
102	D2_I_DLX	Y NUMBER(6,2)	Delta X
103	D2_I_DLX_SRC	Y VARCHAR2(1)	Delta X source
104	D2_I_MNR	Y NUMBER(1,0)	Minimum response
105	D2_I_MNR_SRC	Y VARCHAR2(1)	Minimum response source
106	D2_I_REF	Y NUMBER(6,2)	Reflection coefficient
107	D2_I_REF_SRC	Y VARCHAR2(1)	Reflection coefficient source
108	D2_I_SEV	Y NUMBER(6,2)	Settling velocity (m/sec)
109	D2_I_SEV_SRC	Y VARCHAR2(1)	Settling velocity source
110	D2_I_SKF	Y NUMBER(6,3)	Skin factor
111	D2_I_SKF_SRC	Y VARCHAR2(1)	Skin factor source
112	D2_I_SMH	Y NUMBER(8,2)	Sampling height (meters)
113	D2_I_SMH_SRC	Y VARCHAR2(1)	Sampling height source
114	D2_I_MCOUNT	Y NUMBER(3,0)	Number of met changes
115	D2_I_AUTOLOAD	Y VARCHAR2(1)	Use closest met
116	D2_I_TIME_GRANULARITY	Y NUMBER(3,0)	Time granularity (not used)
117	D2_I_TIME_ZONE	Y VARCHAR2(4)	Time zone
118	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
119	D2_I_TMP_GRND	Y NUMBER(8,4)	Ground temperature (deg Celcius)
120	EMIS_EVENT_NUM	Y NUMBER(4,0)	EMIS event number
121	EOC_NAME	Y VARCHAR2(30)	Full name of the EOC
122	D2_I_TMP_GRND_SRC	Y VARCHAR2(1)	Ground temperature source
123	D2_I_TWR_AS_WSIG	Y VARCHAR2(9)	Met tower for wind sigma (Auto Stability)
124	D2_I_CLS_AS_WSIG	Y NUMBER(2,0)	Met cluster for wind sigma (Auto Stability)
125	D2_I_TWR_AS_WSPD	Y VARCHAR2(9)	Met tower for wind speed (Auto Stability)
126	D2_I_CLS_AS_WSPD	Y NUMBER(2,0)	Met cluster for wind speed (Auto Stability)
127	D2_I_TWR_AS_TGRAD	Y VARCHAR2(9)	Met tower for temperature gradient (Auto Stability)
128	D2_I_CLS_AS_TGRADH	Y NUMBER(2,0)	Met cluster for temperature gradient lower (Auto Stability)
129	D2_I_CLS_AS_TGRADL	Y NUMBER(2,0)	Met cluster for temperature gradient (Auto Stability)
130	D2_I_TWR_AS_SOLRAD	Y VARCHAR2(9)	Met tower for solar radiation (Auto Stability)
131	D2_I_CLS_AS_SOLRAD	Y NUMBER(2,0)	Met cluster for solar radiation (Auto Stability)
132	D2_I_TWR_AS_CLOUD	Y VARCHAR2(9)	Met tower for cloud cover/height (Auto Stability)
133	D2_I_CLS_AS_CLOUD	Y NUMBER(2,0)	Met cluster for cloud cover/height (Auto Stability)

134	D2_I_AS_METPOL	Y	NUMBER(6,1)	Met polling interval (Auto Stability)
135	D2_I_AS_METPOL_SRC	Y	VARCHAR2(1)	Met polling interval source
136	D2_I_AS_CLDCOV	Y	NUMBER(2,0)	Cloud cover (Auto Stability) (tenths; i.e., 5 tenths = 50%)
137	D2_I_AS_CLDCOV_SRC	Y	VARCHAR2(1)	Cloud cover source
138	D2_I_AS_CLDHT	Y	NUMBER(8,2)	Cloud height (Auto Stability) (feet)
139	D2_I_AS_CLDHT_SRC	Y	VARCHAR2(1)	Cloud height source
140	D2_I_AS_TGRADH	Y	NUMBER(8,4)	Temperature - Upper for gradient (Auto Stability) (deg Celcius)
141	D2_I_AS_TGRADL	Y	NUMBER(8,4)	Temperature - Lower for gradient (Auto Stability) (deg Celcius)
142	D2_I_AS_SOLRAD	Y	NUMBER(7,2)	Solar radiation (Auto Stability) (W / m^2)
143	D2_I_AS_WSIG	Y	NUMBER(9,2)	Wind sigma (Auto Stability)
144	D2_I_AS_WSPD	Y	NUMBER(6,3)	Wind speed (Auto Stability) (m/sec)
145	D2_I_AUTO_STB	Y	VARCHAR2(1)	Auto Stability code
146	D2_I_WEDGE_ANGLE	Y	NUMBER(3,0)	Wedge angle
147	D2_I_HTUSED	Y	VARCHAR2(1)	Agent HT used
148	FOLDER_ID	Y	NUMBER(9,0)	Identifier of the folder this record is associated with
149	USER_CODE	Y	VARCHAR2(8)	User code
150	D2_CASE_REV	N	NUMBER(3,0)	Case revision
151	D2_CASE_CHANGES	Y	VARCHAR2(2000)	Case changes
152	D2_CASE_LOCAL_ID	Y	VARCHAR2(20)	MCE for the case
153	D2_PREDECESSOR_CASE_ID	Y	NUMBER(9,0)	Case id of predecessor
154	D2_I_AS_LATEST_MET_FLAG	N	VARCHAR2(1)	Flag indicating whether to use latest met data
155	D2_HIGHEST_REV_FLAG	N	VARCHAR2(1)	Flag indicating if this is the highest revision
156	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**D2\_ITEM\_OF\_INTEREST**

This table contains D2 input parameters and other control information.

Seq	Name	N	Format	Description
1	D2_CASE_ID	N	NUMBER(9,0)	Not Used Anymore
2	D2_TIME_STEP	N	NUMBER(4,0)	Not Used Anymore
3	D2_ITEM_OF_INTEREST	N	VARCHAR2(6)	Not Used Anymore
4	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
5	D2_C_DISTANCE	Y	NUMBER(6,0)	Not Used Anymore
6	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
7	FOLDER_ID	Y	NUMBER(9,0)	Identifier of the folder this record is associated with
8	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**D2\_I\_CONCENTRATION**

This table contains D2 input parameters and other control information.

Seq	Name	N	Format	Description
1	D2_CASE_ID	N	NUMBER(9,0)	Unique identifier for a D2PC case
2	D2_CONC_NUM	N	NUMBER(3,0)	Index number for this concentration for this case
3	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
4	D2_I_CONC_CI	Y	NUMBER(15,9)	Value for this concentration of interest
5	D2_I_CONC_CI_D	Y	VARCHAR2(40)	Description (label) for this concentration of interest
6	D2_I_CONC_CI_SRC	Y	VARCHAR2(1)	Source, usually U (User-specified), for this concentration
7	D2_I_CONC_CI_D_SRC	Y	VARCHAR2(1)	Source, usually U (User-specified), for this concentration description
8	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
9	FOLDER_ID	Y	NUMBER(9,0)	Identifier of the folder this record is associated with
10	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name  
**D2\_I\_DOSAGE**

This table contains D2 input parameters and other control information.

Seq	Name	N	Format	Description
1	D2_CASE_ID	N	NUMBER(9,0)	Unique identifier for a D2PC case
2	D2_DOSAGE_NUM	N	NUMBER(2,0)	Index number for this dosage for this case
3	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
4	D2_I_DOSAGE_DI	Y	NUMBER(15,9)	Value for this dosage of interest
5	D2_I_DOSAGE_DI_D	Y	VARCHAR2(40)	Description (label) for this dosage of interest
6	D2_I_DOSAGE_DI_SRC	Y	VARCHAR2(1)	Source, usually D (default) or U (User-specified), for this dosage
7	D2_I_DOSAGE_DI_D_SRC	Y	VARCHAR2(1)	Source, usually D (default) or U (User-specified), for this dosage description
8	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
9	FOLDER_ID	Y	NUMBER(9,0)	Identifier of the folder this record is associated with
10	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name  
**D2\_I\_MET**

This table contains D2 input parameters and other control information.

Seq	Name	N	Format	Description
1	D2_CASE_ID	N	NUMBER(9,0)	Unique identifier for a D2PC case
2	D2_I_MET_NUM	N	NUMBER(3,0)	Index number for Met Changes (0 for initial Met)2
3	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
4	D2_I_MET_STB	Y	VARCHAR2(1)	Stability Class for this set of met conditions
5	D2_I_MET_HML	Y	NUMBER(8,2)	Height of Mixing Layer for this set of met conditions (meters)
6	D2_I_MET_WND	Y	NUMBER(6,3)	Wind Speed for this set of met conditions (m/sec)
7	D2_I_MET_W_D	Y	NUMBER(6,3)	Wind Direction for this set of met conditions
8	D2_I_MET_TMC	Y	NUMBER(6,2)	Time since the release (or the previous Met Change) for this Met Change to go into effect
9	D2_I_MET_STB_SRC	Y	VARCHAR2(1)	Source flag for Stability Class (e.g., D=Default, U=User Defined) for this set of met conditions
10	D2_I_MET_HML_SRC	Y	VARCHAR2(1)	Source flag for Height of Mixing Layer for this set of met conditions
11	D2_I_MET_WND_SRC	Y	VARCHAR2(1)	Source flag for Wind Speed for this set of met conditions
12	D2_I_MET_W_D_SRC	Y	VARCHAR2(1)	Source flag for Wind Direction for this set of met conditions
13	D2_I_MET_TMC_SRC	Y	VARCHAR2(1)	Source flag for Time to Met Change for this set of met conditions
14	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
15	FOLDER_ID	Y	NUMBER(9,0)	Identifier of the folder this record is associated with
16	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**D2\_I\_QUANTITY**

This table contains D2 input parameters and other control information.

Seq	Name	N	Format	Description
1	D2_CASE_ID	N	NUMBER(9,0)	Unique identifier for a D2PC case
2	D2_REL_NUM	N	NUMBER(3,0)	Release Number to which these quantities apply
3	D2_I_QUAN_NUM	N	NUMBER(2,0)	Index number for this quantity for above release
4	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
5	D2_I_QUAN_Q	Y	NUMBER(13,2)	Quantity of agent released at specified time for above release (mg)

6	D2_I_QUAN_QT	Y NUMBER(6,2)	Time at which above quantity is released for this release
7	D2_I_QUAN_Q_SRC	Y VARCHAR2(1)	Source flag for above quantity for this release
8	D2_I_QUAN_QT_SRC	Y VARCHAR2(1)	Source flag for above release time for this release
9	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
10	FOLDER_ID	Y NUMBER(9,0)	Identifier of the folder this record is associated with
11	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**D2\_I\_RELEASE\_NUM**

This table contains D2 input parameters and other control information.

Seq	Name	N	Format	Description
1	D2_CASE_ID	N	NUMBER(9,0)	Unique identifier for a D2PC case
2	D2_REL_NUM	N	NUMBER(3,0)	Index number for this release
3	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
4	D2_I_MUN	Y	VARCHAR2(3)	Type of munition for this release
5	D2_I_MUN_SRC	Y	VARCHAR2(1)	Source for type of munition for this release
6	D2_I_REL	Y	VARCHAR2(3)	Type of release for this release
7	D2_I_REL_SRC	Y	VARCHAR2(1)	Source for type of release for this release
8	D2_I_NMU	Y	NUMBER(6,2)	Number of munitions for this release
9	D2_I_NMU_SRC	Y	VARCHAR2(1)	Source for Number of munitions for this release
10	D2_I_NQI	Y	NUMBER(1,0)	Number of Quantity Intervals for this (variable) release
11	D2_I_NQI_SRC	Y	VARCHAR2(1)	Source for Number of Quantity Intervals for this release
12	D2_I_TEV	Y	NUMBER(6,2)	Evaporation time for this (evaporative) release (minutes)
13	D2_I_TEV_SRC	Y	VARCHAR2(1)	Source for Evaporation time for this release
14	D2_I_SUR	Y	VARCHAR2(3)	Surface Type for this (evaporative) release
15	D2_I_SUR_SRC	Y	VARCHAR2(1)	Source for Surface Type for this release
16	D2_I_ARE	Y	NUMBER(7,3)	Spill Surface Area for this (evaporative) release (square meters)
17	D2_I_ARE_SRC	Y	VARCHAR2(1)	Source for Spill Surface Area for this release
18	D2_I_LEN	Y	NUMBER(7,3)	Spill Downwind Length for this (evaporative) release (meters)
19	D2_I_LEN_SRC	Y	VARCHAR2(1)	Source for Spill Downwind Length for this release
20	D2_I_OPC	Y	NUMBER(1,0)	Output Control Code for this (stack) release

21	D2_I_OPC_SRC	Y VARCHAR2(1)	Source for Output Control Code for this release
22	D2_I_HST	Y NUMBER(7,3)	Height of Stack for this (stack) release (meters)
23	D2_I_HST_SRC	Y VARCHAR2(1)	Source for Height of Stack for this release
24	D2_I_DST	Y NUMBER(7,3)	Diameter of Stack for this (stack) release (meters)
25	D2_I_DST_SRC	Y VARCHAR2(1)	Source for Diameter of Stack for this release
26	D2_I_TST	Y NUMBER(6,3)	Temperature of Stack Effluent for this (stack) release (deg Celcius)
27	D2_I_TST_SRC	Y VARCHAR2(1)	Source for Temperature of Stack Effluent for this release
28	D2_I_VST	Y NUMBER(6,3)	Velocity of Stack Effluent for this (stack) release (m/sec)
29	D2_I_VST_SRC	Y VARCHAR2(1)	Source for Velocity of Stack Effluent for this release
30	D2_I_RDE	Y NUMBER(6,3)	Relative Density of Stack Effluent for this (stack) release (no units)
31	D2_I_RDE_SRC	Y VARCHAR2(1)	Source for Relative Density for this release
32	D2_I_HRL	Y NUMBER(11,2)	Heat Released for this (fire) release (cal/sec)
33	D2_I_HRL_SRC	Y VARCHAR2(1)	Source for Heat Released for this release
34	D2_I_CRD	Y NUMBER(8,2)	Cloud Radius for this (fire) release (meters)
35	D2_I_CRD_SRC	Y VARCHAR2(1)	Source for Cloud Radius for this release
36	D2_I_QQQ	Y NUMBER(13,2)	Quantity for this (spill or airborne) release (mg)
37	D2_I_QQQ_SRC	Y VARCHAR2(1)	Source for Quantity for this release
38	D2_I_HTS	Y NUMBER(8,2)	Height of Source for this release (meters)
39	D2_I_HTS_SRC	Y VARCHAR2(1)	Source for Height of Source for this release
40	D2_I_SXS	Y NUMBER(8,2)	Source Sigma X for this release
41	D2_I_SXS_SRC	Y VARCHAR2(1)	Source for Source Sigma X for this release
42	D2_I_SYS	Y NUMBER(8,2)	Source Sigma Y for this release
43	D2_I_SYS_SRC	Y VARCHAR2(1)	Source for Source Sigma Y for this release
44	D2_I_SZS	Y NUMBER(8,2)	Source Sigma Z for this release
45	D2_I_SZS_SRC	Y VARCHAR2(1)	Source for Source Sigma Z for this release
46	D2_I_TIM	Y NUMBER(6,2)	Time After Functioning (for HD or HT, INS) for this release (min)
47	D2_I_TIM_SRC	Y VARCHAR2(1)	Source for Time After Functioning for this release
48	XMIT_INIT_DATE	Y DATE	Date of last modification of this record

49	FOLDER_ID	Y NUMBER(9,0)	Identifier of the folder this record is associated with
50	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**D2\_MET\_SELECTION**

This table determines which combination of met parameters are used.

Seq Name	N Format	Description
1	MET_PARAM_CODE N VARCHAR2(2)	Two character code for a met parameter (from MET_PARAMETER)
2	MET_ID N NUMBER(9,0)	Identifier for the Met record
3	EXERCISE_NUM N NUMBER(9,0)	Exercise number for this record
4	CURRENT_FLAG N VARCHAR2(1)	"Y" for current record for MET_PARAM_CODE, "N" otherwise
5	TOWER_NAME N VARCHAR2(30)	Name of tower to be used as source for data for this MET_PARAM_CODE
6	WX_TIME_VALID N DATE	Time this data point was entered
7	CLUSTER_NUM N NUMBER(2,0)	Cluster Number on specified TOWER_NAME to be used as source for data for this MET_PARAM_CODE
8	XMIT_INIT_DATE Y DATE	Date of last modification of this record
9	FOLDER_ID Y NUMBER(9,0)	Identifier of the folder this record is associated with
10	REPLICATION_ID N NUMBER(12,0)	Database control column used for integrity

Table Name

**D2\_O\_CONCENTRATION\_HWIDTH**

This table contains D2 output results.

Seq Name	N Format	Description
1	D2_CASE_ID N NUMBER(9,0)	Not Used Anymore
2	D2_CONC_NUM N NUMBER(3,0)	Not Used Anymore
3	D2_CONC_SEQ_NUM N NUMBER(4,0)	Not Used Anymore
4	EXERCISE_NUM N NUMBER(9,0)	Exercise number for this record
5	D2_O_CONCD_DIST Y NUMBER(10,2)	Not Used Anymore
6	D2_O_CONCD_HWIDTH Y NUMBER(10,2)	Not Used Anymore
7	XMIT_INIT_DATE Y DATE	Date of last modification of this record
8	FOLDER_ID Y NUMBER(9,0)	Identifier of the folder this record is associated with

Table Name

**D2\_O\_CONCENTRATION\_MAXD**

This table contains D2 output results.

Seq Name	N Format	Description
1	D2_CASE_ID N NUMBER(9,0)	Not Used Anymore
2	D2_CONC_NUM N NUMBER(3,0)	Not Used Anymore

3	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
4	D2_O_CONC_MAXDIST	Y NUMBER(10,2)	Not Used Anymore
5	D2_NUM_CONC_HWIDTH	Y NUMBER(4,0)	Not Used Anymore
6	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
7	FOLDER_ID	Y NUMBER(9,0)	Identifier of the folder this record is associated with

Table Name

**D2\_O\_DISCRETE\_RECEPTOR**

This table contains D2 output results.

Seq Name	N	Format	Description
1	D2_CASE_ID	N NUMBER(9,0)	Not Used Anymore
2	USER_CODE	N VARCHAR2(7)	Not Used Anymore
3	D2_DISCRETE_RECEPTOR_NUM	N NUMBER(4,0)	Not Used Anymore
4	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
5	D2_DISCRETE_RECEPTOR_LOCATION	Y VARCHAR2(92)	Not Used Anymore
6	D2_O_ANGLE_FROM_CENTER	Y NUMBER(6,3)	Not Used Anymore
7	D2_O_OUT_OF_PLUME_FLAG	Y VARCHAR2(3)	Not Used Anymore
8	D2_O_DIST_FROM_CENTER	Y NUMBER(10,2)	Not Used Anymore
9	D2_O_OFFSET_DIST_FROM_CENTER	Y NUMBER(10,2)	Not Used Anymore
10	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
11	FOLDER_ID	Y NUMBER(9,0)	Identifier of the folder this record is associated with

Table Name

**D2\_O\_DOSAGE\_HWIDTH**

This table contains D2 output results.

Seq Name	N	Format	Description
1	D2_CASE_ID	N NUMBER(9,0)	Not Used Anymore
2	D2_DOSAGE_NUM	N NUMBER(2,0)	Not Used Anymore
3	D2_DOSAGE_SEQ_NUM	N NUMBER(4,0)	Not Used Anymore
4	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
5	D2_O_DOS_DIST	Y NUMBER(10,2)	Not Used Anymore
6	D2_O_DOS_HWIDTH	Y NUMBER(10,2)	Not Used Anymore
7	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
8	FOLDER_ID	Y NUMBER(9,0)	Identifier of the folder this record is associated with

Table Name

**D2\_O\_DOSAGE\_MAXD**

This table contains D2 output results.

Seq Name	N	Format	Description
1	D2_CASE_ID	N NUMBER(9,0)	Not Used Anymore
2	D2_DOSAGE_NUM	N NUMBER(2,0)	Not Used Anymore
3	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
4	D2_O_DOS_MAXDIST	Y NUMBER(10,2)	Not Used Anymore
5	D2_NUM_DOSAGE_HWIDTH	Y NUMBER(4,0)	Not Used Anymore



6	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
7	FOLDER_ID	Y NUMBER(9,0)	Identifier of the folder this record is associated with

Table Name  
**D2\_O\_POSINP**

This table contains D2 output results.

Seq Name	N Format	Description
1	D2_CASE_ID N NUMBER(9,0)	Unique identifier for a D2PC case
2	EXERCISE_NUM N NUMBER(9,0)	Exercise number for this record
3	D2_O_QUANTITY Y NUMBER(13,2)	Not Used Anymore
4	D2_O_TIME_TO_RELEASE Y NUMBER(6,2)	Not Used Anymore
5	D2_O_SXS Y NUMBER(8,2)	Not Used Anymore
6	D2_O_SYS Y NUMBER(8,2)	Not Used Anymore
7	D2_O_SZS Y NUMBER(8,2)	Not Used Anymore
8	D2_O_PARDOS_REASON Y VARCHAR2(80)	Tells whether PARDOS can run for this D2PC case
9	XMIT_INIT_DATE Y DATE	Date of last modification of this record
10	D2_O_STB Y VARCHAR2(1)	Not Used Anymore
11	FOLDER_ID Y NUMBER(9,0)	Identifier of the folder this record is associated with
12	REPLICATION_ID N NUMBER(12,0)	Database control column used for integrity

Table Name  
**D2\_O\_RUN\_DT**

This table contains D2 output results.

Seq Name	N Format	Description
1	D2_CASE_ID N NUMBER(9,0)	Not Used Anymore
2	EXERCISE_NUM N NUMBER(9,0)	Exercise number for this record
3	D2_O_RUN_DT Y DATE	Not Used Anymore
4	XMIT_INIT_DATE Y DATE	Date of last modification of this record
5	FOLDER_ID Y NUMBER(9,0)	Identifier of the folder this record is associated with

Table Name  
**D2\_O\_SLICE**

This table contains D2 output results.

Seq Name	N Format	Description
1	D2_CASE_ID N NUMBER(9,0)	Not Used Anymore
2	D2_FUNCTION N VARCHAR2(14)	Not Used Anymore
3	USER_CODE N VARCHAR2(7)	Not Used Anymore
4	D2_O_DIST N NUMBER(10,2)	Not Used Anymore
5	EXERCISE_NUM N NUMBER(9,0)	Exercise number for this record
6	D2_O_SLICE_TOTAL_DOSE Y NUMBER(10,4)	Not Used Anymore
7	D2_O_SLICE_TIME_TIP Y NUMBER(8,2)	Not Used Anymore
8	D2_O_SLICE_TIME_TAIL Y NUMBER(8,2)	Not Used Anymore

9	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
10	FOLDER_ID	Y NUMBER(9,0)	Identifier of the folder this record is associated with

Table Name

**D2\_O\_SLICE\_DOSE\_TIME**

This table contains D2 output results.

Seq	Name	N Format	Description
1	D2_CASE_ID	N NUMBER(9,0)	Not Used Anymore
2	D2_FUNCTION	N VARCHAR2(14)	Not Used Anymore
3	USER_CODE	N VARCHAR2(7)	Not Used Anymore
4	D2_O_DIST	N NUMBER(10,2)	Not Used Anymore
5	D2_DOSAGE_NUM	N NUMBER(2,0)	Not Used Anymore
6	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
7	D2_O_SLICE_DOSE_PCT	Y NUMBER(5,2)	Not Used Anymore
8	D2_O_SLICE_TIME	Y NUMBER(10,4)	Not Used Anymore
9	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
10	FOLDER_ID	Y NUMBER(9,0)	Identifier of the folder this record is associated with

Table Name

**D2\_USER\_TIME**

This table contains D2 control parameters.

Seq	Name	N Format	Description
1	D2_CASE_ID	N NUMBER(9,0)	Not Used Anymore
2	USER_CODE	N VARCHAR2(7)	Not Used Anymore
3	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
4	D2_TIME_STEP_INCREMENT	Y NUMBER(3,0)	Not Used Anymore
5	FOLDER_ID	Y NUMBER(9,0)	Identifier of the folder this record is associated with

Table Name

**DATA\_ACK**

This table contains DAI control parameters.

Seq	Name	N Format	Description
1	DATA_ACK_ID	N NUMBER(9,0)	Not presently defined
2	DATA_TYPE	N VARCHAR2(9)	Not presently defined
3	EOC_CODE	N VARCHAR2(4)	Not presently defined
4	INSTANCE_NAME	N VARCHAR2(4)	Not presently defined
5	SITE_NAME	N VARCHAR2(30)	Not presently defined
6	ORACLE_TAB_NAME	N VARCHAR2(30)	Not presently defined
7	SAME_SERVER	N CHAR(1)	Not presently defined
8	EXERCISE_NUM	N NUMBER(9,0)	The exercise number for this record.
9	ACK_ATTEMPTS	Y NUMBER(2,0)	Not presently defined
10	ACKNOWLEDGED	Y CHAR(1)	Not presently defined
11	EMIS_NUM	Y NUMBER(8,0)	Not presently defined
12	DESCRIPTION	Y VARCHAR2(2000)	Not presently defined
13	ACK_START_DATE	Y DATE	Not presently defined
14	ACK_END_DATE	Y DATE	Not presently defined

15	GMT_MINUTE_OFF	Y	NUMBER(4,0)	Not presently defined
16	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity.

Table Name

**DEPARTMENT**

The Department table names the departments in agencies that are concerned with the FEMIS mission.

Seq	Name	N	Format	Description
1	DEPT_CODE	N	NUMBER(9,0)	Unique identifier for a department
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	DEPT_NAME	Y	VARCHAR2(60)	Name of department
4	STATE_CODE	Y	VARCHAR2(2)	Location state
5	CITY_NAME	Y	VARCHAR2(20)	Location city
6	STREET_ADDRESS1	Y	VARCHAR2(40)	Street address
7	STREET_ADDRESS2	Y	VARCHAR2(40)	Street address
8	ZIP_CODE	Y	VARCHAR2(10)	Zip code
9	MAIN_PHONE	Y	VARCHAR2(30)	Department phone
10	FAX_PHONE	Y	VARCHAR2(30)	Department fax phone
11	CEL_PHONE	Y	VARCHAR2(30)	Department cell phone
12	BEEPER_PHONE	Y	VARCHAR2(30)	Department beeper phone
13	EMAIL_ADDRESS	Y	VARCHAR2(80)	Department email address
14	EMAIL_ADDRESS2	Y	VARCHAR2(80)	Department email address
15	WEB_ADDRESS	Y	VARCHAR2(4000)	Department web address
16	EOC_NAME	Y	VARCHAR2(30)	Full name of the EOC
17	AGENCY_CODE	N	NUMBER(9,0)	Unique identifier for the agency that owns the department
18	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
19	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**DEPENDENCE**

The Dependence table shows the plan detail task(s) that must be finished before the indicated task is done.

Seq	Name	N	Format	Description
1	PLAN_REF_ID	N	NUMBER(9,0)	Reference ID of the plan associated with the task for which the dependence is being defined
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	PD_UNIQUE_REF_NUM	N	NUMBER(7,0)	Reference ID of the task for which the dependence is being defined
4	PRED_PLAN_REF_ID	N	NUMBER(9,0)	Reference ID of the plan associated with the predecessor task. For practical purposes, the same as plan_ref_id.
5	PRED_PD_UNIQUE_REF_NUM	N	NUMBER(7,0)	Reference ID of the predecessor task.

6	DEPENDENCY_TYPE	N VARCHAR2(10)	Dependency type, as in normal planning tool definitions. Only a limited set are allowed here.
7	LEAD_LAG_TIME	N NUMBER(6,2)	Task lead or lag time in minutes

Table Name

**DOSAGE**

The Dosage table is a validation of the dose levels used to run the D2 model.

Seq Name	N Format	Description	
1	DOSE_LEVEL	N VARCHAR2(40)	Standard dose level
2	DOSE_DESCRIPTION	N VARCHAR2(127)	Dose level description

Table Name

**EMERGENCY\_SUPPORT**

The Emergency Support table contains valid support functions for use in an electronic plan.

Seq Name	N Format	Description	
1	EMERGENCY_SUPPORT_FN	N VARCHAR2(30)	Emergency support function
2	EMS_DESCRIPTION	N VARCHAR2(127)	Emergency support function description

Table Name

**EOC**

The EOC table contains information about EOCs at a CSEPP site.

Seq Name	N Format	Description	
1	EOC_NAME	N VARCHAR2(30)	Full name of the EOC
2	EOC_CODE	Y VARCHAR2(4)	Four character code for the EOC
3	EOC_TYPE	Y VARCHAR2(30)	Type of EOC
4	EOC_DESCRIPTION	Y VARCHAR2(127)	Description of EOC
5	EOC_NUM	Y NUMBER(3,0)	EOC Number: Ordinal value used in FEMIS configuration
6	EOC_SERVER_NAME	Y VARCHAR2(30)	Host name for the server hosting this EOC's database
7	EOC_PWD	Y VARCHAR2(32)	Encrypted Oracle password for this EOC's database
8	EOC_NOTIFY_PORT	Y NUMBER(9,0)	UNIX port used for FEMIS notification
9	EOC_UNIX_PORT	Y NUMBER(9,0)	UNIX port used for by FEMIS
10	SITE_NAME	N VARCHAR2(30)	Name of the site that the EOC is part of
11	DEI_USED	Y CHAR (1)	Flag to indicate whether or not the EMIS / FEMIS Data Exchange Interface (DEI) is used at this EOC
12	INSTANCE_NAME	Y VARCHAR2(4)	Oracle Instance name for this EOCs database

Table Name

**EOC\_OBJECTIVE**

The EOC Objective table contains operational objectives for center.

Seq Name	N Format	Description
1 EOC_NAME	N VARCHAR2 (30)	Full name of the EOC
2 EO_GOAL_TIME	Y NUMBER(6,2)	Currently not in use
3 EO_DESCRIPTION	Y VARCHAR2(127)	Description of Emergency Operations Center
4 EO_NOTIFY_TIME	Y NUMBER(6,2)	Amount of time before an EOC is notified of a chemical accident or incident
5 EO_DECISION_TIME	Y NUMBER(6,2)	Amount of time after a chemical accident or incident notification that an EOC has to make a decision
6 TIME_ZONE_CODE	Y VARCHAR2 (3)	Time Zone Abbreviation for the EOC
7 DOSE_LEVEL	Y VARCHAR2 (40)	Default dose level for the EOC
8 DEFAULT_D2_CASE_ID	Y NUMBER(9,0)	Default D2pc case. Currently not in use.
9 D2PC_EVENT_DELTA_MINUTES	Y NUMBER(5,0)	Maximum age (in minutes) of a D2PC case for it to be automatically linked to an event automatically
10 AEGL_LEVEL	Y VARCHAR2 (40)	Default AEGL level for the EOC

Table Name

**EOC\_ZONE**

The EOC Zone table contains the mapping of zones to EOCs.

Seq Name	N Format	Description
1 OWNER_EOC_NAME	N VARCHAR2 (30)	Name of EOC which has jurisdiction for this zone
2 ZONE_NAME	N VARCHAR2 (30)	Name of emergency zone
3 POLYGONAL_LAYER_ID	N NUMBER(9,0)	Identifier of the GIS layer for this record
4 EOC_NAME	N VARCHAR2 (30)	Full name of the EOC
5 REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**EV\_INQUIRY**

This table contains the history of inquiries made about an evacuated person.

Seq Name	N Format	Description
1 EV_TP_REF_NUM	N NUMBER(9,0)	Identifier of the tracked person who is the subject of the inquiry
2 EV_MOD_DATE	N DATE	Date/time the data was modified
3 EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
4 INQUIRY_ID	N NUMBER(9,0)	Identifier of the inquiry
5 INQ_TK_REF_NUM	Y NUMBER(9,0)	Identifier of the person making the inquiry
6 INQ_NAME	Y VARCHAR2 (40)	Name of the person who is the subject of the inquiry
7 INFO_REQUESTED	Y VARCHAR2 (255)	Description of the information requested

8	INFO_NOTES	Y VARCHAR2(2000)	Notes and comments
9	INFO_RELEASED_FLAG	Y VARCHAR2(1)	Flag indicating if the information has been released
10	INFO_REQUESTED_DATE	Y DATE	Date/time the information was requested
11	REL_PERSON_REF_NUM	Y NUMBER(9,0)	Identifier of a relative of the inquirer

Table Name

**EXERCISE\_CONTROL**

The Exercise Control table is the link between the exercise data and the exercise scenario data.

Seq Name	N	Format	Description	
1		EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
2		EOC_NAME	N VARCHAR2(30)	Full name of the EOC
3		EXERCISE_ACTIVE_FLAG	Y VARCHAR2(1)	Unused flag
4		EXERCISE_END_DATE	Y DATE	Date of creation
5		EXERCISE_START_DATE	Y DATE	Date of creation
6		EXERCISE_CHANGE_DATE	Y DATE	Date of last update. (Currently not updated.)
7		EXERCISE_DESCRIPTION	Y VARCHAR2(127)	Short description of the Exercise
8		EXERCISE_LONG_DESCRIPTOR	Y VARCHAR2(2000)	Additional information for the Exercise
9		XMIT_INIT_DATE	Y DATE	Date of last modification of this record
10		REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**FACILITY**

The Facility table contains information about a building or structure that may need to be considered for some protective action.

Seq Name	N	Format	Description	
1		FACILITY_ID	N NUMBER(9,0)	Identifier of the facility
2		EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3		FACILITY_NAME	N VARCHAR2(30)	Name of facility
4		GEO_OBJECT_ID	N NUMBER(9,0)	Unique identifier of the geographic object associated with this record
5		FACILITY_DESCRIPTION	Y VARCHAR2(255)	Text description of the facility
6		FACILITY_CAPACITY	Y NUMBER(5,0)	Non sheltering capacity of the facility
7		PRESSURIZED_FLAG	Y VARCHAR2(1)	Y/N flag indicating if the facility is pressurized
8		FACILITY_ADDRESS1	Y VARCHAR2(40)	Street address
9		FACILITY_CITY	Y VARCHAR2(20)	City where the facility is located
10		FACILITY_STATE_CODE	Y VARCHAR2(2)	State where the facility is located
11		FACILITY_ZIP_CODE	Y VARCHAR2(10)	Zip code
12		FACILITY_POC_AGENCY	Y NUMBER(9,0)	Agency code for the point of contact agency

13	FACILITY_POC_DEPT	Y	NUMBER(9,0)	Department code for the point of contact department
14	FACILITY_POC_POSITION	Y	NUMBER(9,0)	Point of contact position
15	FACILITY_POC_PERSON_REF_NUM	Y	NUMBER(9,0)	Reference number of the point of contact person
16	FACILITY_POC_PHONE	Y	VARCHAR2(30)	Work phone of the point of contact person
17	FACILITY_SHELTER_CAP_FLAG	Y	VARCHAR2(1)	Y/N flag indicating if the facility is a shelter
18	FACILITY_ADDRESS2	Y	VARCHAR2(40)	Street address
19	MAIN_PHONE	Y	VARCHAR2(30)	Main phone number for the facility
20	FAX_PHONE	Y	VARCHAR2(30)	Fax phone number
21	CEL_PHONE	Y	VARCHAR2(30)	Cell phone
22	BEEPER_PHONE	Y	VARCHAR2(30)	Beeper phone number
23	EMAIL_ADDRESS	Y	VARCHAR2(80)	E-mail address
24	EMAIL_ADDRESS2	Y	VARCHAR2(80)	E-mail address
25	WEB_ADDRESS	Y	VARCHAR2(4000)	Web address
26	MOU_ID	Y	NUMBER(9,0)	Reference number for an MOU
27	SHELTER_ACTIVATION_DATE	Y	DATE	Date the shelter is activated
28	SHELTER_DEACTIVATION_DATE	Y	DATE	Date the shelter is deactivated
29	SHELTER_DESCRIPTION	Y	VARCHAR2(255)	Description of the shelter
30	SHELTER_CAPACITY	Y	NUMBER(5,0)	Capacity of the shelter
31	SHELTER_TYPE	Y	VARCHAR2(10)	Type of shelter, mass care, reception center
32	EOC_NAME	N	VARCHAR2(30)	Full name of the EOC
33	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
34	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**FEMIS\_USER**

The FEMIS User table contains information about all users of the system.

Seq	Name	N	Format	Description
1	USER_CODE	N	VARCHAR2(8)	Account name of a FEMIS user
2	USER_PWD	Y	VARCHAR2(10)	Encrypted password for a FEMIS user
3	ACCOUNT_STATUS	Y	VARCHAR2(30)	Whether the account is enabled or disabled
4	PERSON_REF_NUM	N	NUMBER(9,0)	Unique number used to identify a person from the Person table
5	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
6	TOOLBAR_INFO	Y	BLOB	Toolbar configuration for the user

Table Name

**FOLDER**

The Folder table contains information about all folders that are or have been in the database recently.

Seq	Name	N	Format	Description
1	FOLDER_ID	N	NUMBER(9,0)	Identifier of the folder this record is associated with

2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	HAZARD_ID	N	NUMBER(9,0)	Identifier of the hazard this record is associated with
4	FOLDER_NUM	Y	NUMBER(9,0)	Folder number shown in interface to user
5	FOLDER_NAME	Y	VARCHAR2(30)	Name of folder for display to user
6	FOLDER_DESC	Y	VARCHAR2(2000)	Description of folder for display to user
7	CREATION_DATE	Y	DATE	Date the folder was created
8	OPEN_DATE	Y	DATE	Date the folder was opened
9	CLOSED_DATE	Y	DATE	Date the folder was closed
10	CURRENT_OPS_FLAG	N	VARCHAR2(1)	Y/N flag saying if the folder is current operational
11	OPEN_FLAG	N	VARCHAR2(1)	Y/N flag saying whether the folder is open
12	LOGICAL_DEL_FLAG	N	VARCHAR2(1)	Y/N flag whether the folder has been marked for deletion
13	PHYSICAL_DEL_FLAG	N	VARCHAR2(1)	Y/N flag for physical folder deletion
14	LOGICAL_DEL_DATE	Y	DATE	Date of logical deletion
15	PHYSICAL_DEL_DATE	Y	DATE	Date of physical deletion
16	EOC_NAME	Y	VARCHAR2(30)	Full name of the EOC
17	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
18	EXPORT_NAME	Y	VARCHAR2(200)	Name of the export file for when folder physically deleted
19	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**FREE\_FORM\_LOG**

The Free Form Log table contains information that is used to create reports or shared status boards.

Seq	Name	N	Format	Description
1	FREE_FORM_LOG_ID	N	NUMBER(9,0)	Unique identifier for the free form log
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	MODIFIED_DATETIME	N	DATE	Date of the latest modification
4	CURRENT_FLAG	N	VARCHAR2(1)	Not presently defined
5	SHARE_FLAG	N	VARCHAR2(1)	Flag to indicate whether the entry is shared
6	EOC_NAME	Y	VARCHAR2(30)	Full name of the EOC
7	FOLDER_ID	Y	NUMBER(9,0)	Identifier of the folder this record is associated with
8	HAZARD_ID	Y	NUMBER(9,0)	Identifier of the hazard this record is associated with
9	ITEM_NUM	Y	NUMBER(9,0)	Log entry number
10	ENTERED_BY_ID	Y	VARCHAR2(15)	ID of the person who created the log entry
11	ENTERED_BY_NAME	Y	VARCHAR2(40)	Name of the person who created the log entry
12	ENTERED_DATETIME	Y	DATE	Date the log entry was created



13	REPORTED_BY_NAME	Y	VARCHAR2(40)	Name of the person who reported the incident/action
14	APPROVED_BY_NAME	Y	VARCHAR2(40)	Name of the person who approved the log entry
15	PRIORITY_NUM	Y	NUMBER(1,0)	Indicates the level of importance of the log entry
16	CONTROL_NUM	Y	NUMBER(9,0)	Number used to control the logs
17	INCIDENT_DATETIME	Y	DATE	Date/time of the incident
18	INCIDENT_TYPE	Y	VARCHAR2(15)	Type of the incident
19	INCIDENT_SUBJECT	Y	VARCHAR2(40)	Subject of the incident
20	INCIDENT_LOCATION	Y	VARCHAR2(40)	Where the incident occurred
21	INCIDENT_DESCRIPTION	Y	VARCHAR2(4000)	Description of the incident
22	MODIFIED_BY_ID	Y	VARCHAR2(15)	ID of the person who made the latest modification
23	MODIFIED_BY_NAME	Y	VARCHAR2(40)	Name of the person who made the latest modification
24	ASSIGNED_BY_NAME	Y	VARCHAR2(40)	Name of the person assigning the action
25	ASSIGNED_TO_NAME	Y	VARCHAR2(40)	Name of the person assigned the action
26	ASSIGNED_DATETIME	Y	DATE	Date/time the action was assigned
27	SUSPENSE_DATETIME	Y	DATE	Date/time the action was suspended
28	CLOSED_DATETIME	Y	DATE	Date/time the action was closed
29	ACTIVE_FLAG	N	VARCHAR2(1)	Flag to indicate whether the entry is active
30	ACTION_ITEM	Y	VARCHAR2(4000)	Description of the action
31	INCIDENT_URL	Y	VARCHAR2(4000)	URL of interest for the incident
32	ACTION_ITEM_URL	Y	VARCHAR2(4000)	URL of interest for the action
33	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
34	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**GEO\_OBJECT**

The GEO Object table contains positional information about all objects that can be viewed by the GIS.

Seq	Name	N	Format	Description
1	GEO_OBJECT_ID	N	NUMBER(9,0)	Unique identifier of the geographic object associated with this record
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	GEO_OBJECT_NAME	N	VARCHAR2(30)	Name of geo-object
4	CLASS_ID	N	NUMBER(9,0)	Object class identifier
5	SUBCLASS_ID	Y	NUMBER(9,0)	Object subclass identifier
6	GIS_LAYER_ID	N	NUMBER(9,0)	GIS map layer (theme) identifier
7	EOC_NAME	N	VARCHAR2(30)	Full name of the EOC
8	FEMIS_POINT_X	Y	NUMBER(20,6)	Value of x-coordinate of object location (normally longitude)

9	FEMIS_POINT_Y	Y NUMBER(20,6)	Value of y-coordinate of object location (normally latitude)
10	PROJECTED_POINT_X	Y NUMBER(20,6)	Value of projected x-coordinate of object location
11	PROJECTED_POINT_Y	Y NUMBER(20,6)	Value of projected y-coordinate of object location
12	EXERCISE_FLAG	N VARCHAR2(1)	Flag to control copying of geo-object records in exercises
13	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
14	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity
15	GEO_OBJECT_SHAPE	Y CLOB	Polygonal shape data as text

Table Name

**GEO\_OBJECT\_ZONE**

The GEO OBJECT\_ZONE table associates objects in the GEO OBJECT table with zones from the ZONE table

Seq Name	N Format	Description
1	GEO_OBJECT_ID N NUMBER(9,0)	Unique identifier of the geographic object associated with this record
2	EXERCISE_NUM N NUMBER(9,0)	Exercise number for this record
3	ZONE_NAME N VARCHAR2(30)	Name of emergency zone
4	POLYGONAL_LAYER_ID N NUMBER(9,0)	Identifier of the GIS layer for this record
5	EOC_NAME N VARCHAR2(30)	Full name of the EOC
6	XMIT_INIT_DATE Y DATE	Date of last modification of this record.
7	REPLICATION_ID N NUMBER(12,0)	Database control column used for integrity

Table Name

**GIS\_LAYER**

This table defines the GIS layers or themes available.

Seq Name	N Format	Description
1	GIS_LAYER_ID N NUMBER(9,0)	GIS map layer (theme) identifier
2	EXERCISE_NUM N NUMBER(9,0)	Exercise number for this record
3	GIS_LAYER_NAME N VARCHAR2(30)	Name of GIS layer (theme)
4	GIS_LAYER_MODIFICATION_DATE Y DATE	Date/time last modified (redundant w/ XMIT_INIT_DATE?)
5	GIS_LEGEND_NAME Y VARCHAR2(32)	Text to appear in GIS theme legend
6	GIS_LAYER_TYPE Y VARCHAR2(10)	Layer/theme type (point, line, or polygon)
7	GIS_LAYER_DESCRIPTION Y VARCHAR2(127)	Text description of layer
8	GIS_LAYER_TEXT_FONT Y NUMBER(3,0)	Font number for label or graphic text
9	GIS_LAYER_TEXT_COLOR Y NUMBER(3,0)	Color number for text
10	GIS_LAYER_TEXT_ROTATION Y NUMBER(3,0)	Rotation angle for text
11	GIS_LAYER_TEXT_SIZE Y NUMBER(3,0)	Text font size

12	GIS_LAYER_TEXT_JUSTIFY	Y	VARCHAR2(2)	Text justification (L=left, R=right, C=center)
13	GENERIC_GIS_LAYER_CODE	Y	VARCHAR2(2)	2-char. Generic layer prefix (e.g. 'fa' for facility)
14	SOURCE	Y	VARCHAR2(127)	Data source for layer
15	ORIGINAL_MAP_SCALE	Y	NUMBER(9,0)	Denominator of original map scale (1 to N)
16	ORIGINAL_MAP_PROJECTION	Y	VARCHAR2(127)	Name of map projection used on original paper map
17	ACCURACY	Y	VARCHAR2(127)	Reference to map accuracy standard
18	LEGEND_ORDER	Y	NUMBER(9,2)	Order of theme appearance in the GIS Table of Contents
19	LABEL_FIELD	Y	VARCHAR2(20)	Name of theme attribute field for labeling objects
20	OBJ_LOOKUP_CATEGORY	Y	VARCHAR2(24)	Object category for GIS symbols
21	CLASSIFICATION_FIELD	Y	VARCHAR2(20)	Name of field for classified legend
22	DEFAULT_LEGEND_TYPE	Y	VARCHAR2(8)	Default legend type (simple or classified)
23	MINIMUM_SCALE	Y	NUMBER(9,0)	Minimum display scale
24	MAXIMUM_SCALE	Y	NUMBER(9,0)	Maximum display scale
25	GIS_LAYER_FILE_PATH	Y	VARCHAR2(32)	Relative file path of the GIS theme shapefiles
26	PROCESSING_DETAILS	Y	VARCHAR2(2000)	Comments regarding the preparation of the map layer from source data
27	HAZARD_ZONE_LAYER_FLAG	Y	VARCHAR2(1)	"Emergency zones" theme indicator (Y/N)
28	LOAD_FLAG	Y	VARCHAR2(1)	Indicator of theme load status at GIS startup (Y/N)
29	VISIBLE_FLAG	Y	VARCHAR2(1)	Indicator of theme visibility status at GIS startup (Y/N)
30	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
31	DYNAMIC_LAYER_FLAG	Y	VARCHAR2(1)	Indicator of dynamic theme (Y/N)
32	EOC_NAME	N	VARCHAR2(30)	Full name of the EOC
33	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**GIS\_LAYER\_DEFINITION**

This table contains parameters that control a GIS layer presentation.

Seq	Name	N	Format	Description
1	GENERIC_GIS_LAYER_CODE	N	VARCHAR2(2)	2-char. Generic layer prefix (e.g. 'fa' for facility)
2	GENERIC_LAYER_DESCRIPTION	Y	VARCHAR2(40)	Text description of this generic GIS layer
3	USER_MODIFY_FLAG	Y	VARCHAR2(1)	Whether user can modify map objects in this layer
4	FEMIS_OBJECT_FLAG	Y	VARCHAR2(1)	Whether the objects in this layer are FEMIS defined objects
5	LAYER_BASE_NAME	Y	VARCHAR2(8)	Base name used to construct layer name

6	LAYER_NAME_SUBST_FLAG	Y VARCHAR2(1)	Whether layer name substitution is allowed (not currently used)
7	LAYER_SUBST_SOURCE1	Y VARCHAR2(12)	First layer name substitution string (not currently used)
8	LAYER_SUBST_SOURCE2	Y VARCHAR2(12)	Second layer name substitution string (not currently used)
9	DEFAULT_LEGEND_BASE_NAME	Y VARCHAR2(16)	Default base name used to construct legend name
10	LEGEND_NAME_SUBST_FLAG	Y VARCHAR2(1)	Whether legend name substitution is allowed (not currently used)
11	LEGEND_SUBST_SOURCE1	Y VARCHAR2(12)	First legend name substitution string (not currently used)
12	LEGEND_SUBST_SOURCE2	Y VARCHAR2(12)	Second legend name substitution string (not currently used)
13	DIRECTORY_BASE_NAME	Y VARCHAR2(8)	Base name used to construct legend name
14	DIRECTORY_NAME_SUBST_FLAG	Y VARCHAR2(1)	Whether directory name substitution is allowed (not currently used)
15	DIRECTORY_SUBST_SOURCE	Y VARCHAR2(12)	Source path of directory name substitution string (not currently used)
16	FILE_BASE_NAME	Y VARCHAR2(8)	Base name used to construct file name
17	FILE_TYPE	Y VARCHAR2(10)	Type of file (text or image)
18	FILE_NAME_SUBST_FLAG	Y VARCHAR2(1)	Whether file name substitution is allowed (not currently used)
19	FILE_SUBST_SOURCE1	Y VARCHAR2(12)	First source of file name substitution (not currently used)
20	FILE_SUBST_SOURCE2	Y VARCHAR2(12)	Second source of file name substitution (not currently used)

Table Name

**GIS\_SYMBOL**

This table is used to define symbol parameters that may be used by the GIS.

Seq	Name	N	Format	Description
1	GIS_SYMBOL_ID	N	NUMBER(9,0)	GIS symbol ID number
2	SYMBOL_TYPE	N	VARCHAR2(8)	GIS symbol type (point or polygon)
3	PALLETTE_ITEM_ID	N	NUMBER(4,0)	Identifier of item in symbol palette
4	SYMBOL_SIZE	N	NUMBER(4,0)	Symbol size
5	SYMBOL_FOREGROUND_COLOR	N	NUMBER(4,0)	Symbol foreground color ID
6	SYMBOL_BACKGROUND_COLOR	N	NUMBER(4,0)	Symbol background color ID
7	SYMBOL_OUTLINE_COLOR	N	NUMBER(4,0)	Symbol outline color ID
8	SYMBOL_DESCRIPTION	Y	VARCHAR2(255)	Text description of GIS symbol
9	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
10	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**GOAL**

The Goal table is used to validate CSEPP goals.

Seq Name	N Format	Description	
1	PLANNING_GOAL	N VARCHAR2(40)	Planning goal
2	PLAN_GOAL_DESCRIPTION	Y VARCHAR2(128)	Planning goal description

Table Name

**G\_DEF\_COMMUNITY**

This table contains information about the community.

Seq Name	N Format	Description	
1	HAZARD_ID	N NUMBER(9,0)	Identifier of the hazard this record is associated with
2	COMMUNITY_DEF_ID	N NUMBER(9,0)	ID for community definition
3	COMMUNITY_DEF_SEQ	N NUMBER(2,0)	Sequence for community definition
4	COMMUNITY_LABEL_TYPE	N VARCHAR2(5)	Community label type
5	COMMUNITY_LABEL_DEF	N VARCHAR2(20)	Community label definition
6	COMMUNITY_DEF_FIELDS	Y VARCHAR2(32)	Community field definition
7	COMMUNITY_DEF_WEIGHT	Y NUMBER(5,2)	Weight values for plan selection
8	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
9	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**G\_DEF\_COMMUNITY\_VAL**

This table contains specific information about the community.

Seq Name	N Format	Description	
1	HAZARD_ID	N NUMBER(9,0)	Identifier of the hazard this record is associated with
2	COMMUNITY_DEF_ID	N NUMBER(9,0)	ID for community definition
3	COMMUNITY_DEF_SEQ	N NUMBER(2,0)	Sequence for community definition
4	COMMUNITY_VALUE	N VARCHAR2(20)	Community value for given sequence
5	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
6	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**G\_DEF\_EMERGENCY**

This table contains information about the emergency.

Seq Name	N Format	Description	
1	HAZARD_ID	N NUMBER(9,0)	Identifier of the hazard this record is associated with
2	EMER_NAME	Y VARCHAR2(20)	Definition of emergency name
3	EMER_DESC	Y VARCHAR2(2000)	Definition description of emergency
4	EMER_NOTIF_ALL_EOC	Y VARCHAR2(1)	Y/N flag on whether to notify all EOCs

5	EMER_NOTIF_ALL_HAZ	Y VARCHAR2(1)	Y/N flag on whether to notify all hazards
6	EMER_STATUS_BOARD	Y VARCHAR2(30)	Status board to associate with emergency
7	EMER_TIME1_LABEL	Y VARCHAR2(30)	Definition of emergency time label number 1
8	EMER_TIME2_LABEL	Y VARCHAR2(30)	Definition of emergency time label number 2
9	XMIT_INIT_DATE	Y DATE	Date of last modification of this record.
10	EMER_URL	Y VARCHAR2(4000)	Definition of URL to tie to emergency
11	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**G\_DEF\_EMERGENCY\_LEVELS**

This table contains specific information about the emergency.

Seq Name	N	Format	Description
1	HAZARD_ID	N NUMBER(9,0)	Identifier of the hazard this record is associated with
2	HAZ_LEVEL_NAME	N VARCHAR2(30)	Definition of emergency level name
3	HAZ_LEVEL_DESC	Y VARCHAR2(256)	Definition of emergency level description
4	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
5	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**G\_DEF\_HAZARD\_CLASS**

This table contains information about the hazard/class.

Seq Name	N	Format	Description
1	HAZARD_ID	N NUMBER(9,0)	Identifier of the hazard this record is associated with
2	HAZARD_NAME	Y VARCHAR2(20)	Definition of hazard name
3	HAZARD_DESC	Y VARCHAR2(2000)	Definition of hazard description
4	HAZARD_POLY_MAP	Y VARCHAR2(30)	Definition of polygonal map layer for hazard
5	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
6	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity
7	EOC_NAME	Y VARCHAR2(30)	The EOC that defined this hazard class

Table Name

**G\_DEF\_NAV\_BUTTON**

This table contains control information for the user interface.

Seq Name	N	Format	Description
1	HAZARD_ID	N NUMBER(9,0)	Identifier of the hazard this record is associated with

2	BUTTON_INDEX	N	NUMBER(2,0)	Definition of button index on Navigator (1-9)
3	BUTTON_DEFINED	Y	VARCHAR2(1)	Definition of Y/N flag of whether Navigator button defined
4	LABEL_NAME	Y	VARCHAR2(15)	Definition of label name for Navigator button
5	AVAIL_ON_NAV	Y	VARCHAR2(1)	Definition of Y/N flag whether Navigator item available on Navigator
6	AVAIL_ON_MENU	Y	VARCHAR2(1)	Definition of Y/N flag whether Navigator item available on menu
7	EXE_NAME	Y	VARCHAR2(200)	Definition of executable name associated with Navigator button
8	FUNCTION_ID	Y	VARCHAR2(50)	Definition of function ID associated with Navigator button
9	INPUT_FORMAT	Y	VARCHAR2(50)	Definition of input format associated with Navigator button
10	OUTPUT_FORMAT	Y	VARCHAR2(50)	Definition of output format associated with Navigator button
11	MAP_AVAILABLE	Y	VARCHAR2(1)	Definition of whether map avail associated with Navigator button
12	MAP_FUNCTION	Y	VARCHAR2(50)	Definition of map function associated with Navigator button
13	AUTOCALC_AVAILABLE	Y	VARCHAR2(1)	Definition of whether AutoCalc avail associated with Navigator button
14	AUTOCALC_FUNCTION	Y	VARCHAR2(50)	Definition of AutoCalc function associated with Navigator button
15	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
16	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity
17	ICON_NAME	Y	VARCHAR2(20)	Definition of icon associated with Navigator button
18	EOC_SOURCE_NAME	Y	VARCHAR2(30)	Definition of EOC source associated with Navigator button

Table Name

**G\_DEF\_NAV\_FUNCTION**

This table contains control information for application.

Seq Name	N	Format	Description	
1	FUNCTION_ID	N	NUMBER(9,0)	Definition of function ID to associate with Navigator
2	VALID_NAV_INDEX	Y	VARCHAR2(20)	Definition of which Navigator indexes can call this function
3	FUNCTION_NAME	Y	VARCHAR2(50)	Definition of function name
4	FUNCTION_DESC	Y	VARCHAR2(50)	Definition of function description

5	FUNCTION_TYPE	Y VARCHAR2(50)	Definition of type of function (Map, Navigator)
6	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
7	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity
8	FUNCTION_NOTIF_NAME	Y VARCHAR2(50)	Definition of notification name associated with function

Table Name

**G\_DEF\_NAV\_FUNCTION\_IO**

This table contains control information for application.

Seq Name	N	Format	Description
1		NUMBER(9,0)	Definition of function ID to associate with Navigator
2		VARCHAR2(50)	Definition of data format name
3	Y	VARCHAR2(50)	Definition of data format description
4	Y	VARCHAR2(6)	Definition of data format type
5	Y	DATE	Date of last modification of this record
6	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**G\_DEF\_PAD\_LABELS**

This table contains control information for application.

Seq Name	N	Format	Description
1		NUMBER(9,0)	Identifier of the hazard this record is associated with
2		NUMBER(2,0)	Definition of PAD labels
3	Y	VARCHAR2(127)	Definition of PAR labels
4	Y	DATE	Date of last modification of this record
5	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**G\_DEF\_SHARING**

This table contains control information for application.

Seq Name	N	Format	Description
1		NUMBER(9,0)	Identifier of the hazard this record is associated with
2		VARCHAR2(30)	Full name of the EOC
3	Y	VARCHAR2(11)	Definition of whether to share EOC into with others
4	Y	DATE	Date of last modification of this record
5	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**G\_EMERGENCY**

This table contains control information for application.



Seq	Name	N	Format	Description
1	EOC_NAME	N	VARCHAR2(30)	Full name of the EOC
2	HAZARD_ID	N	NUMBER(9,0)	Identifier of the hazard this record is associated with
3	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
4	EMERGENCY_ID	N	NUMBER(9,0)	Run-time emergency ID
5	EMER_MOD_DATE	N	DATE	Run-time Emergency modification date
6	EMER_NAME	Y	VARCHAR2(30)	Run-time Emergency name
7	EMER_DESC	Y	VARCHAR2(2000)	Run-time Emergency description
8	EMER_PERSON_DECLARED	Y	VARCHAR2(40)	Run-time person who declared Emergency
9	EMER_USER_CODE	Y	VARCHAR2(8)	Run-time user code of person who declared Emergency
10	EMER_DATE_CLOSED	Y	DATE	Run-time date Emergency closed
11	EMER_IN_PROG_FLAG	Y	VARCHAR2(1)	Run-time Y/N flag of whether Emergency in progress
12	EMER_CURRENT_RECORD	Y	VARCHAR2(1)	Run-time Y/N flag of whether current record
13	EMER_NOTIF_ALL_EOC	Y	VARCHAR2(1)	Run-time Emergency notification scope by EOC
14	EMER_NOTIF_ALL_HAZ	Y	VARCHAR2(1)	Run-time Emergency notification scope by hazard
15	HAZ_LEVEL_NAME	Y	VARCHAR2(30)	Run-time Emergency level name
16	EMER_TIME1	Y	DATE	Run-time Emergency time number 1
17	EMER_TIME2	Y	DATE	Run-time Emergency time number 2
18	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
19	FOLDER_ID	Y	NUMBER(9,0)	Identifier of the folder this record is associated with
20	EMER_URL	Y	VARCHAR2(4000)	Run-time Emergency URL
21	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**HAZARD\_CASE**

This table describes general conditions related to the hazard and case.

Seq	Name	N	Format	Description
1	HAZARD_CASE_ID	N	NUMBER(9,0)	Hazard case ID for given navigator record
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	HAZARD_ID	N	NUMBER(9,0)	Identifier of the hazard this record is associated with
4	FOLDER_ID	N	NUMBER(9,0)	Identifier of the folder this record is associated with
5	SITE_NAME	Y	VARCHAR2(30)	Site name for hazard case
6	MODEL_ID	N	NUMBER(9,0)	Model ID for hazard case
7	MODEL_CASE_ID	N	NUMBER(9,0)	Model case id for hazard case
8	REVISION_NUM	N	NUMBER(9,0)	Revision for model case
9	EOC_NAME	N	VARCHAR2(30)	Full name of the EOC
10	SENT_OFFPOST_DATE	Y	DATE	Date hazard case broadcast
11	SENT_OFFPOST_USER	Y	VARCHAR2(8)	User who broadcast

12	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
13	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**HAZARD\_CASE\_ITEM**

This table describes specific items related to the hazard/case.

Seq Name	N Format	Description	
1	HAZARD_CASE_ID	N NUMBER(9,0)	Hazard case ID for given navigator record
2	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3	HC_ITEM_TYPE	N VARCHAR2(15)	Hazard case item type
4	HC_ITEM_ID	Y NUMBER(9,0)	Hazard case item ID
5	HC_ITEM_DATE	Y DATE	Hazard case item date
6	HC_ITEM_USER	Y VARCHAR2(8)	User code of last person to update hazard case
7	HC_ITEM_DESC_SHORT	Y VARCHAR2(50)	Short description for hazard case item
8	HC_ITEM_DESC_LONG	Y VARCHAR2(4000)	Long description for hazard case item
9	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
10	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**HAZARD\_SITE**

The Hazard Site table describes common hazards that are possible at the emergency operations site.

Seq Name	N Format	Description	
1	SITE_NAME	N VARCHAR2(30)	Site name
2	SITE_TYPE	N VARCHAR2(20)	Type of site i.e., CSEPP
3	MODEL_SITE_CODE	Y VARCHAR2(30)	Code for site used by D2PC model
4	SITE_DESCRIPTION	Y VARCHAR2(127)	Description of site

Table Name

**INTERVAL\_QUANTITY**

The table contains information about release increments.

Seq Name	N Format	Description	
1	LOCAL_ID_CODE	N VARCHAR2(20)	MCE (Local ID) code
2	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3	RELEASE_NUM	N NUMBER(2,0)	MCE Release number
4	IQ_INTERVAL_NUM	N NUMBER(2,0)	MCE Quantity index
5	QUANTITY_PER_INTERVAL	Y NUMBER(13,2)	MCE Quantity for this interval
6	IQ_TIME_MINUTES	Y NUMBER(6,2)	MCE Time for this interval
7	XMIT_INIT_DATE	Y DATE	Date of last modification of this record

8	QUANTITY_PER_INTERVAL_SRC	Y CHAR (1)	MCE Quantity for this interval source
9	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**JOURNAL**

The Journal table is used to save significant events that occurred while the FEMIS system was in operation.

Seq Name	N Format	Description
1	JOURNAL_REC_ID N NUMBER(9,0)	Unique identifier for each journal record
2	EOC_NAME N VARCHAR2(30)	Full name of the EOC
3	EXERCISE_NUM N NUMBER(9,0)	Exercise number for this record
4	JOURNAL_ENTERED_DATE N DATE	Date of the journal entry
5	JOURNAL_CATEGORY N VARCHAR2(15)	A descriptor of the reason the journal item was created
6	JOURNAL_ACTUAL_TIME Y DATE	Actual date of the occurrence
7	JOURNAL_SUBJECT Y VARCHAR2(255)	Subject of the journal entry
8	JOURNAL_INFORMATION Y VARCHAR2(2000)	Description of the journal entry
9	JOURNAL_MANUAL_ENTRY_FLAG Y VARCHAR2(1)	Flag used to determine whether the entry is significant
10	JOURNAL_ATTR_FLAGS Y VARCHAR2(10)	Flags used to determine replication, significance, etc.
11	JOURNAL_USER_NAME Y VARCHAR2(40)	Name of the user causing the journal entry
12	JOURNAL_USER_CODE Y VARCHAR2(8)	User code causing the journal entry
13	XMIT_INIT_DATE Y DATE	Date of last modification of this record
14	HAZARD_ID Y NUMBER(9,0)	Identifier of the hazard this record is associated with
15	FOLDER_ID Y NUMBER(9,0)	Identifier of the folder this record is associated with
16	REPLICATION_ID N NUMBER(12,0)	Database control column used for integrity
17	JOURNAL_SOURCE_ID Y NUMBER(9,0)	For source ID for event or emergency journal items

Table Name

**MEASUREMENT\_DEFN**

The Measurement Definition table describes the valid units of measurements.

Seq Name	N Format	Description
1	MEASUREMENT_CLASS N VARCHAR2(10)	Measurement Class Definitions

Table Name

**MEASUREMENT\_TYPE**

The Measurement Type table describes the valid classes of measurements.

Seq Name	N Format	Description
1	MEASUREMENT_CLASS N VARCHAR2(10)	Classes of measurements

2	MEASUREMENT_TYPE	N VARCHAR2(10)	Measurement units
3	MEASUREMENT_DESCRIPTION	Y VARCHAR2(127)	Description of the measurement units

Table Name

**MEMO\_UNDERSTANDING**

The Memo of Understanding table documents an agreement to supply resources, services, etc.

Seq Name	N Format	Description	
1	MOU_ID	N NUMBER(9,0)	Unique identifier for the MOU
2	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3	EOC_NAME	Y VARCHAR2(30)	Full name of the EOC
4	MOU_CHANGE_DATE	Y DATE	Change date of MOU
5	MOU_REFERENCE	Y VARCHAR2(10)	Short title for MOU
6	MOU_DESCRIPTION	Y VARCHAR2(255)	Text description of the MOU
7	MOU_START_DATE	Y DATE	Start date for the MOU
8	MOU_EXPIRE_DATE	Y DATE	End date for the MOU
9	MOU_POC_AGENCY	Y NUMBER(9,0)	Agency code for the point of contact agency
10	MOU_POC_DEPT	Y NUMBER(9,0)	Department code for the point of contact department
11	MOU_POC_POSITION	Y NUMBER(9,0)	Point of contact position
12	MOU_PERSON_REF_NUM	Y NUMBER(9,0)	Reference number of the point of contact person
13	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
14	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**METHOD**

The Method table contains the valid list of methods for FEMIS operations.

Seq Name	N Format	Description	
1	METHOD_TYPE	N VARCHAR2(20)	Short description of the method used
2	METHOD_DESCRIPTION	Y VARCHAR2(127)	Long description of the method used

Table Name

**MET\_CLUSTER**

The Met Cluster table has the parameters about the sensor clusters on the towers.

Seq Name	N Format	Description	
1	CLUSTER_ID	N NUMBER(9,0)	Unique identifier of an equipment cluster on any Met tower
2	TOWER_NAME	N VARCHAR2(30)	Unique name of a Met tower
3	CLUSTER_NUM	N NUMBER(2,0)	Ordinal identifier of an equipment cluster on a Met tower
4	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
5	CLUSTER_HEIGHT	Y NUMBER(9,4)	Height above ground (meters)

6	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
7	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**MET\_CONDITION**

The Met Condition table has the current weather parameters from towers in operation.

Seq	Name	N Format	Description
1	TOWER_NAME	N VARCHAR2(30)	Tower name of Met tower
2	WX_TIME_VALID	N DATE	Date/time in GMT when Met reading taken
3	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
4	CLUSTER_NUM	N NUMBER(2,0)	Cluster number on met tower where reading taken. Met towers can have multiple clusters.
5	WIND_SPEED	Y NUMBER(7,4)	Wind speed in meters per second
6	WIND_DIR	Y NUMBER(7,3)	Wind direction in degrees from. Wind going south is 0 degrees; wind going west 90 degrees; etc.
7	MIXING_HEIGHT	Y NUMBER(7,2)	Height of the mixing layer in meters
8	STABILITY	Y VARCHAR2(1)	Stability code. 'A' is very unstable - 'F' is very stable. See D2PC documentation for more information.
9	TEMPERATURE	Y NUMBER(9,5)	Temperature in degrees Fahrenheit. NOTE: D2PC database units for temperature are Celsius.
10	PRESSURE	Y NUMBER(10,6)	Atmospheric pressure in millibar. NOTE: D2PC database uses units of mm hg.
11	HUMIDITY	Y NUMBER(6,3)	Percent humidity
12	CLOUD_HEIGHT	Y NUMBER(7,2)	Cloud height in meters
13	CURRENT_FLAG	Y VARCHAR2(1)	Flag saying whether the record is the most recent reading or not. 'Y' = current; 'N' = old
14	CLOUD_COVER	Y NUMBER(4,2)	Cloud coverage (1-10) where 1 represents 10% coverage and 10 represents 100% coverage
15	SOLAR_RAD	Y NUMBER(9,3)	Solar radiation
16	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
17	WIND_SIGMA	Y NUMBER(11,4)	Measure of wind variability. Standard deviation in degrees.
18	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity
19	RAIN_FALL	Y NUMBER(10,6)	Rain fall rate?
20	BATTERY_VOLTAGE	Y NUMBER(4,1)	Indicates voltage of the battery in the sensor.

Table Name

**MET\_PARAMETER**

This is the Weather database area that contains weather related information.

Seq Name	N	Format	Description
1		VARCHAR2(2)	As of FEMIS 1.4.5, this appears to be an unused met parameter code like 'WS' for Wind Speed, 'WD' for Wind Direction, etc.
2		VARCHAR2(127)	As of FEMIS 1.4.5, this appears to be an unused full name for the MET_PARAM_CODE.

Table Name

**MET\_TOWER**

The Met Tower table contains information about the sensors on the tower.

Seq Name	N	Format	Description
1		NUMBER(9,0)	Unique identifier of a Met tower
2		VARCHAR2(30)	Tower name of Met tower
3		NUMBER(9,0)	Exercise number for this record
4		VARCHAR2(9)	Tower code
5		NUMBER(9,0)	Unique identifier of the geographic object associated with this record
6	Y	VARCHAR2(4000)	Description of the Met tower
7	Y	VARCHAR2(4000)	Met tower status (free format description)
8	Y	DATE	Date of last modification of this record
9		NUMBER(12,0)	Database control column used for integrity

Table Name

**MODEL\_ATTR**

The table contains information about the model attributes.

Seq Name	N	Format	Description
1		NUMBER(9,0)	Unique identifier for a model
2		NUMBER(9,0)	Column number for spreadsheet placement of attr_value in Case Management subsystem
3		VARCHAR2(30)	Label for an attribute (shown in spreadsheet column header)
4		VARCHAR2(10)	Type of data contained in associated ATTR_VALUE
5	Y	DATE	Date of last modification of this record
6		NUMBER(12,0)	Database control column used for integrity

Table Name

**MODEL\_DEF**

The table contains general information about the model.

Seq Name	N Format	Description
1 MODEL_ID	N NUMBER(9,0)	Unique identifier for a model
2 EOC_NAME	N VARCHAR2(30)	Full name of the EOC
3 MODEL_NAME	N VARCHAR2(10)	User readable model identifier
4 MODEL_TYPE	N VARCHAR2(20)	Focus area of model
5 HELP_FILE_NAME	Y VARCHAR2(127)	Name of file containing on line help for this model
6 HELP_CONTEXT_ID	Y NUMBER(9,0)	Pointer to help specific to case management for this model
7 SHARABLE_FLAG	N VARCHAR2(1)	Indicates whether case data for this model can be shared
8 REVISIONS_FLAG	N VARCHAR2(1)	Indicates whether case data for this model can have revisions
9 FOLDER_DEPENDENT	N VARCHAR2(1)	Indicates whether case is dependent on a folder
10 XMIT_INIT_DATE	Y DATE	Date of last modification of this record
11 REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**MUNITION**

The Munition table describes the munitions that are commonly stored with chemical weapons.

Seq Name	N Format	Description
1 MUNITION_TYPE	N VARCHAR2(4)	Munition type
2 MUNITION_DESCRIPTION	Y VARCHAR2(127)	Munition description

Table Name

**NAME\_SUBSTITUTION**

The Name Substitution table controls how case numbers are formulated.

Seq Name	N Format	Description
1 SUBST_SOURCE	N VARCHAR2(12)	Unused table.
2 TABLE_NAME	Y VARCHAR2(30)	Unused table.
3 FIELD_NAME	Y VARCHAR2(30)	Unused table.
4 MIN_CHARS	Y NUMBER(2,0)	Unused table.
5 MAX_CHARS	Y NUMBER(2,0)	Unused table.

Table Name

**NAVIGATOR**

The table contains definition information about the navigator screen.

Seq Name	N Format	Description
1 NAV_ID	N NUMBER(9,0)	Navigator ID
2 EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3 HAZARD_ID	N NUMBER(9,0)	Identifier of the hazard this record is associated with
4 FOLDER_ID	N NUMBER(9,0)	Identifier of the folder this record is associated with
5 SITE_NAME	N VARCHAR2(30)	Navigator site name
6 EOC_NAME	N VARCHAR2(30)	Full name of the EOC

7	HAZARD_CASE_ID	N NUMBER(9,0)	Hazard case ID for given navigator record
8	BROADCAST_FLAG	N VARCHAR2(1)	Y/N flag on whether nav record is shared
9	SENT_OFFPOST_DATE	Y DATE	Date/time nav record last sent offpost
10	SENT_OFFPOST_USER	Y VARCHAR2(8)	Person who last sent offpost
11	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
12	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**NAVIGATOR\_ITEM**

The table contains definition information about navigator screen items.

Seq	Name	N Format	Description
1	NAV_ID	N NUMBER(9,0)	Navigator ID
2	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3	NAV_ITEM_TYPE	N VARCHAR2(15)	Type of Navigator item
4	NAV_ITEM_ID	Y NUMBER(9,0)	Navigator item ID
5	NAV_ITEM_DATE	Y DATE	Navigator date for item
6	NAV_ITEM_USER	Y VARCHAR2(8)	User code who last updated Navigator item
7	NAV_ITEM_DESC_SHORT	Y VARCHAR2(50)	Short description of nav item
8	NAV_ITEM_DESC_LONG	Y VARCHAR2(4000)	Long description of nav item
9	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
10	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**NEXT\_OF\_KIN**

The Next of Kin table contains information about a victims relatives or NOK.

Seq	Name	N Format	Description
1	TK_REF_NUM	N NUMBER(9,0)	Next of kin tracking number
2	NOK_TK_REF_NUM	N NUMBER(9,0)	Notified person tracking number
3	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
4	NOK_RELATIONSHIP	Y NUMBER(2,0)	Next of kin relationship
5	NOK_NOTIFY_FLAG	Y VARCHAR2(1)	Next of kin notified
6	NOK_ORDER	Y NUMBER(2,0)	Next of kin priority number
7	NOK_COMMENT	Y VARCHAR2(255)	Next of kin comment
8	EV_NOK_NOTIFY_FLAG	Y VARCHAR2(1)	Next of kin notified

Table Name

**OBJECT\_ATTR**

The table contains information about one attribute of the object.

Seq	Name	N Format	Description
1	ATTR_ID	N NUMBER(9,0)	Oracle ID
2	OBJECT_ID	N NUMBER(9,0)	Oracle ID from User defined Object
3	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record



4	EOC_NAME	N VARCHAR2(30)	Full name of the EOC
5	ATTR_VALUE	Y VARCHAR2(255)	Value of the attribute that the user enters in User defined Object interface
6	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
7	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**OBJECT\_ATTR\_DEF**

The table defines one attribute of the object.

Seq Name		N Format	Description
1	ATTR_ID	N NUMBER(9,0)	Identifier for this attribute
2	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3	CLASS_ID	N NUMBER(9,0)	Class identifier
4	EOC_NAME	N VARCHAR2(30)	Null name of the EOC
5	ATTR_NAME	N VARCHAR2(16)	Name of the attribute
6	ATTR_TYPE	N VARCHAR2(32)	Type of the attribute, Boolean, Number, Text
7	ATTR_DEFAULT	Y VARCHAR2(255)	Default value
8	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
9	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**OBJECT\_CLASS**

The table defines one class of object.

Seq Name		N Format	Description
1	CLASS_ID	N NUMBER(9,0)	Class identifier
2	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3	CLASS_SHAPE_TYPE	N VARCHAR2(30)	Class shape type could be a point or polygon
4	EOC_NAME	N VARCHAR2(30)	Full name of the EOC
5	CLASS_NAME	N VARCHAR2(24)	Name of the class
6	CLASS_DESCRIPTION	Y VARCHAR2(255)	Description of the Class
7	CLASS_NOTES	Y VARCHAR2(2000)	Notes for the class
8	GIS_LAYER_ID	Y NUMBER(9,0)	Oracle ID from GIS Layer
9	GIS_SYMBOL_ID	Y NUMBER(9,0)	Symbol ID from Gis_symbol
10	PREDEFINED_FLAG	N VARCHAR2(1)	Y, N. Yes makes it a predefined class. Examples are tcp, sirens. All predefined flags have unique Class_id across EOC which is usually 50,xxx.and they cannot be deleted from the database
11	EXTERNAL_FLAG	N VARCHAR2(1)	Y, N. Y makes the object not to be loaded as a dynamic user defined object. All classes that have the flag set to N are loaded in the User Defined class definition.

12	DEFAULT_POC	Y	VARCHAR2(255)	Default Point of Contact
13	LAST_CHANGE_DATE	N	DATE	Last Changed Date
14	LAST_CHANGE_PERSON	N	VARCHAR2(40)	Person who changed it last
15	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
16	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**OBJECT\_CLASS\_CO\_LOCATION**

The table defines what other classes can be co-located with the object.

Seq	Name	N	Format	Description
1	SUBJECT_CLASS_ID	N	NUMBER(9,0)	All classes that should not be listed in Select Location or Threat area drop-down boxes
2	LOCATED_AT_CLASS_ID	N	NUMBER(9,0)	All classes that should be listed in Select Location or TA drop down box but are not part of the list of predefined classes or user defined classes. For example, Met towers,
3	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
4	REASON	Y	VARCHAR2(255)	Reason we have included this class
5	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
6	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**OBJECT\_SUBCLASS**

The table defines one subclass of object.

Seq	Name	N	Format	Description
1	CLASS_ID	N	NUMBER(9,0)	Oracle ID
2	SUBCLASS_ID	N	NUMBER(9,0)	Oracle ID
3	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
4	EOC_NAME	N	VARCHAR2(30)	Full name of the EOC
5	SUBCLASS_NAME	N	VARCHAR2(40)	Subclass Name
6	GIS_LAYER_ID	Y	NUMBER(9,0)	Gis_layer_id
7	GIS_SYMBOL_ID	Y	NUMBER(9,0)	Symbol ID from Gis_symbol
8	SUBCLASS_DESCRIPTION	Y	VARCHAR2(255)	Subclass Description
9	PREDEFINED_FLAG	N	VARCHAR2(1)	Y, N. Yes makes it a predefined subclass. Examples are Access, TCP's that cannot be deleted from the database.. All predefined flags have unique Class_id across EOC which is usually 50,xxx.
10	LAST_CHANGE_DATE	N	DATE	Last Changed Date
11	LAST_CHANGE_PERSON	N	VARCHAR2(40)	Person who changed it last

12	XMIT_INIT_DATE	Y DATE	Date of last modification of this record.
13	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**PARPAD\_DETAIL**

The table contains information about the protective action recommendation.

Seq	Name	N Format	Description
1	PA_UNIT_ID	N NUMBER(9,0)	Protective action unit ID number
2	PARPAD_ID	N NUMBER(9,0)	PAR/PAD ID
3	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
4	PROT_ACT_INDEX	N NUMBER(2,0)	Protective action ID number
5	MODEL_IMPACT_TIME	Y NUMBER(6,0)	Associated model impact time in minutes
6	MODEL_TIP_TIME	Y NUMBER(6,0)	Associated model tip time in minutes
7	MODEL_TAIL_TIME	Y NUMBER(6,0)	Associated model tail time in minutes
8	PALT_TIME	Y NUMBER(6,0)	Protective action lookup table time in minutes
9	FOLDER_ID	N NUMBER(9,0)	Identifier of the folder this record is associated with
10	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
11	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**PARPAD\_HEADER**

The table contains general information about the protective action recommendation.

Seq	Name	N Format	Description
1	PARPAD_ID	N NUMBER(9,0)	PAR/PAD ID
2	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3	PARPAD_NAME	N VARCHAR2(40)	PAR/PAD name
4	PARPAD_TYPE	N VARCHAR2(3)	PAR/PAD type
5	HAZARD_ID	N NUMBER(9,0)	Identifier of the hazard this record is associated with
6	HAZARD_CASE_ID	Y NUMBER(9,0)	Associated hazard caseID
7	SS_ID	Y NUMBER(9,0)	Associated community ID
8	PLAN_REF_ID	Y NUMBER(9,0)	Associated plan ID
9	IMPACT_LEVEL	Y VARCHAR2(40)	Associated impact level
10	MODEL_BASED	Y VARCHAR2(1)	Model based
11	FOLDER_ID	N NUMBER(9,0)	Identifier of the folder this record is associated with
12	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
13	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**PA\_LOOKUP**

The PA Lookup table contains protective action recommendations for each protective action unit.

Seq	Name	N	Format	Description
1	PA_UNIT_ID	N	NUMBER(9,0)	Associated protective action unit
2	HAZARD_ID	N	NUMBER(9,0)	Identifier of the hazard this record is associated with
3	PROT_ACT_INDEX	N	NUMBER(2,0)	Protective action ID number
4	SS_ID	N	NUMBER(9,0)	Associated situation summary
5	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
6	PAL_BEGIN_TIME	N	NUMBER(6,2)	Begin time suitable to this activity for this unit for this situation summary and exercise in minutes
7	PAL_END_TIME	N	NUMBER(6,2)	End time suitable to this activity for this unit for this situation summary and exercise in minutes
8	PAU_TYPE	N	VARCHAR2(10)	Type of protective action unit
9	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
10	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**PA\_UNIT**

The PA Unit table contains a list of protective action units for use in planning.

Seq	Name	N	Format	Description
1	PA_UNIT_ID	N	NUMBER(9,0)	Protective action unit ID number
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	GEO_OBJECT_ID	Y	NUMBER(9,0)	Protective action unit object type ID
4	PAU_TYPE	N	VARCHAR2(5)	Protective action unit type
5	ZONE_NAME	N	VARCHAR2(30)	Protective action unit polygon name
6	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
7	POLYGONAL_LAYER_ID	N	NUMBER(9,0)	Identifier of the GIS layer for this record
8	EOC_NAME	N	VARCHAR2(30)	Full name of the EOC
9	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity.

Table Name

**PD\_LEVEL**

The PD Level table contains identifying information for each level of the plan.

Seq	Name	N	Format	Description
1	LEVEL_NUM	N	NUMBER(1,0)	Hierarchical level of plan detail
2	LEVEL_NAME	N	VARCHAR2(30)	Hierarchical level name of plan detail

Table Name

**PERSON**

The Person table contains information about people that interact with FEMIS.

Seq	Name	N	Format	Description
1	PERSON_REF_NUM	N	NUMBER(9,0)	Person reference number
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	NAME_LAST	Y	VARCHAR2(20)	Person last name
4	NAME_FIRST	Y	VARCHAR2(12)	Person first name
5	NAME_SECOND	Y	VARCHAR2(12)	Person middle or second name
6	HOME_PHONE	Y	VARCHAR2(30)	Person home phone
7	WORK_PHONE	Y	VARCHAR2(30)	Person work phone
8	PERSON_EMAIL_ADDRESS	Y	VARCHAR2(80)	Person email address
9	PERSON_FAX_PHONE	Y	VARCHAR2(30)	Person fax phone
10	PERSON_BEEPER_PHONE	Y	VARCHAR2(30)	Person beeper phone
11	PERSON_WORK_HOURS	Y	VARCHAR2(30)	Person work hours
12	PERSON_STATUS	Y	VARCHAR2(30)	Person status
13	PERSON_COMMENT	Y	VARCHAR2(255)	Person comment
14	PERSONAL_ID_NUM	Y	VARCHAR2(15)	Person ID number
15	PERSON_NICK_NAME	Y	VARCHAR2(12)	Person nick name
16	STATE_CODE	Y	VARCHAR2(2)	Person address
17	CITY_NAME	Y	VARCHAR2(20)	Person address
18	STREET_ADDRESS1	Y	VARCHAR2(40)	Person address
19	STREET_ADDRESS2	Y	VARCHAR2(40)	Person address
20	ZIP_CODE	Y	VARCHAR2(10)	Person address
21	HOME_STATE_CODE	Y	VARCHAR2(2)	Person address
22	HOME_CITY_NAME	Y	VARCHAR2(20)	Person address
23	HOME_STREET_ADDRESS1	Y	VARCHAR2(40)	Person address
24	HOME_STREET_ADDRESS2	Y	VARCHAR2(40)	Person address
25	HOME_ZIP_CODE	Y	VARCHAR2(10)	Person address
26	HOME_ZONE	Y	VARCHAR2(30)	Person address
27	WORK_ZONE	Y	VARCHAR2(30)	Person address
28	CEL_PHONE	Y	VARCHAR2(30)	Person cell phone
29	EMAIL_ADDRESS2	Y	VARCHAR2(80)	Person email address
30	WEB_ADDRESS	Y	VARCHAR2(4000)	Person web address
31	AGENCY_CODE	Y	NUMBER(9,0)	Person's agency
32	DEPT_CODE	Y	NUMBER(9,0)	Person's department
33	WK_POSITION_ID	Y	NUMBER(9,0)	Work position ID

Table Name

**PERSON\_SHELTERED**

The Person Sheltered table contains identifying information about the evacuee.

Seq	Name	N	Format	Description
1	EV_TP_REF_NUM	N	NUMBER(9,0)	Evacuee type reference
2	EV_MOD_DATE	N	DATE	Evacuee modified date
3	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record.
4	EV_LOCATION_FROM	Y	VARCHAR2(60)	Evacuee from location
5	EV_PER_EFFECTS_NUM	Y	VARCHAR2(12)	Evacuee personal effects number
6	EV_ARRIVAL_DATE	Y	DATE	Evacuee arrival date
7	EV_DEPART_DATE	Y	DATE	Evacuee departure date
8	EV_OK_RELEASE_FLAG	Y	VARCHAR2(1)	Evacuee OK to release
9	UPDATE_PERSON_REF_NUM	Y	NUMBER(9,0)	Person updating record last
10	EV_STATUS_CODE	Y	NUMBER(1,0)	Evacuee status code
11	POST_EV_STREET_ADDRESS1	Y	VARCHAR2(40)	Follow on address
12	POST_EV_STREET_ADDRESS2	Y	VARCHAR2(40)	Follow on address
13	POST_EV_CITY_NAME	Y	VARCHAR2(20)	Follow on address
14	POST_EV_COUNTY_NAME	Y	VARCHAR2(20)	Follow on address
15	POST_EV_STATE_CODE	Y	VARCHAR2(2)	Follow on address
16	POST_EV_ZIP_CODE	Y	VARCHAR2(10)	Follow on address

17	POST_EV_PHONE	Y VARCHAR2 (30)	Follow on phone
18	MEDICAL_STATUS	Y VARCHAR2 (40)	Medical status
19	SP_MEDICAL_NEEDS	Y VARCHAR2 (4000)	Medical condition needs
20	EV_CONTAMINATED_IND	Y VARCHAR2 (1)	Evacuee contamination indicator
21	EV_DECONTAM_FLAG	Y VARCHAR2 (1)	Evacuee decontamination indicator
22	DESTINATION_IND	Y VARCHAR2 (1)	Destination indicator
23	EV_NOTES	Y VARCHAR2 (4000)	Evacuee notes
24	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
25	NOK_NOTIFY_FLAG	Y VARCHAR2 (1)	Next of kin notified
26	HAZARD_ID	Y NUMBER (9,0)	Identifier of the hazard this record is associated with
27	RECEP_CNTR_FACILITY_ID	Y NUMBER (9,0)	Reception center facility ID
28	MASS_CARE_FACILITY_ID	Y NUMBER (9,0)	Mass care facility ID
29	REPLICATION_ID	N NUMBER (12,0)	Database control column used for integrity

Table Name

**PLAN\_APPROACH**

The Plan Approach table contains the pairing of a method and an approach for an electronic plan.

Seq Name	N	Format	Description
1		METHOD_TYPE	Type of approach
2		PLANNING_APPROACH	Planning approach

Table Name

**PLAN\_DETAIL**

The Plan Detail table contains the lower level detail of an electronic plan.

Seq Name	N	Format	Description
1		PLAN_REF_ID	Reference ID of the associated plan
2		EXERCISE_NUM	Exercise number for this record
3		PD_UNIQUE_REF_NUM	Task number unique to plan
4		PD_NAME	Task name
5		PD_DESCRIPTION	Task description
6		RESPONSIBLE_AGENCY	Code for associated agency
7		RESPONSIBLE_DEPT	Code for associated department
8		RESPONSIBLE_POSITION	Code for associated EOC position
9		RESP_PERSON_REF_NUM	ID of associated responsible person
10		DECISION_POINT	Is this task a decision point?
11		START_TIME_TARGET	Target start date/time. Currently unused.
12		FINISH_TIME_TARGET	Target finish date/time. Currently unused.
13		DURATION_TARGET	Target duration in minutes. Currently unused.
14		START_TIME_CALC	Projected start date/time
15		FINISH_TIME_CALC	Projected finish date/time
16		DURATION_CALC	Projected duration in minutes
17		PD_PRIORITY	Task priority level

18	EXTERNAL_INTERFACE	N VARCHAR2(1)	Does this task interface outside of EOC?
19	PD_NOTES	Y VARCHAR2(4000)	Originally intended as a pointer to a document, this field is unused.
20	PD_COST	Y NUMBER(10,2)	Task cost in dollars
21	START_TIME_ACTUAL	Y DATE	Actual start date/time. Not relevant in planning.
22	FINISH_TIME_ACTUAL	Y DATE	Actual finish date/time. Not relevant in planning.
23	DURATION_ACTUAL	Y NUMBER(8,0)	Actual duration in minutes. Not relevant in planning.
24	PD_ORIGIN	N VARCHAR2(10)	Task origin. Programmatically set.
25	PD_OPS_STATUS	Y VARCHAR2(15)	Operational status
26	LOGGED_EVENT_FLAG	N VARCHAR2(1)	Is this task a logged event?
27	PD_SEQUENCE_NUM	N NUMBER(10,0)	Task sequence number
28	START_TIME_BASELINE	Y DATE	Planned start date/time. Not relevant in planning.
29	FINISH_TIME_BASELINE	Y DATE	Planned finish date/time. Not relevant in planning.
30	DURATION_BASELINE	Y NUMBER(8,0)	Planned duration in minutes. Not relevant in planning.
31	PLANNING_STAGE	Y VARCHAR2(30)	Stage of task
32	PLANNING_PHASE	Y VARCHAR2(20)	Phase of task
33	LEVEL_NUM	N NUMBER(1,0)	Hierarchical level number of task
34	EMERGENCY_SUPPORT_FN	Y VARCHAR2(30)	Emergency support function of task
35	GEO_OBJECT_ID	Y NUMBER(9,0)	Unique identifier of the geographic object associated with this record
36	GEO_LON_OR_DIST	Y NUMBER(20,6)	Longitude or the offset distance for the geographic object associated with this record
37	GEO_LAT_OR_DIR	Y NUMBER(20,6)	Latitude or offset direction for the geographic object associated with this record
38	GEO_LOC_TYPE	Y VARCHAR2(6)	Location type (lat/lon value or offset) for the geographic object associated with this record

Table Name

**PLAN\_HEADER**

The Plan Header table contains high level, header information about an electronic plan.

Seq	Name	N	Format	Description
1	PLAN_REF_ID	N	NUMBER(9,0)	Reference ID of the plan of interest
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	PLAN_CHANGE_DATE	N	DATE	Date/time plan was last changed (edited)
4	PLAN_NAME	N	VARCHAR2(64)	Plan name. Forced programmatically to be unique.
5	PLAN_STATUS	N	VARCHAR2(11)	Development status of plan

6	EOC_NAME	N VARCHAR2(30)	Full name of the EOC
7	PLAN_DESCRIPTION	Y VARCHAR2(4000)	Not currently used
8	MAX_TASK_REF_NUM	Y NUMBER(7,0)	Not used in planning
9	MAX_TASK_SEQUENCE_NUM	Y NUMBER(10,0)	Not used in planning
10	PLAN_NOTE	Y VARCHAR2(4000)	Originally intended as a pointer to a document, this field is unused.
11	METHOD_TYPE	Y VARCHAR2(20)	Not currently used.
12	PLANNING_APPROACH	Y VARCHAR2(40)	Not currently used.
13	PLANNING_GOAL	Y VARCHAR2(40)	Goal of plan
14	HAZARD_ID	N NUMBER(9,0)	Identifier of the hazard this record is associated with

Table Name

**PLUME**

The Plume table contains the identifier and location of a plume from a D2 model.

Seq Name	N	Format	Description
1	D2_CASE_ID	N NUMBER(9,0)	Unique identifier for a D2PC case
2	D2_LEVEL_NUM	N NUMBER(2,0)	Index for levels of a certain LEVEL_TYPE (e.g., dosages)
3	LEVEL_TYPE	N VARCHAR2(1)	Type of plume level (e.g., dosages, concentrations)
4	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
5	PLUME_LOCATION_NAME	Y VARCHAR2(30)	Name of plume location (of specified LOCATION_TYPE)
6	PLUME_NAME	Y VARCHAR2(30)	Unique identifier for the plume
7	DOSE_LEVEL	Y VARCHAR2(40)	Text description (e.g., no effects, no deaths) of this level
8	D2_O_DOS_MAXDIST	Y NUMBER(10,2)	Length of the plume for the specified DOSE_LEVEL
9	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
10	FOLDER_ID	Y NUMBER(9,0)	Identifier of the folder this record is associated with
11	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity
12	GEO_OBJECT_ID	Y NUMBER(9,0)	Unique identifier of the geographic object associated with this record
13	GEO_LON_OR_DIST	Y NUMBER(20,6)	Longitude or the offset distance for the geographic object associated with this record
14	GEO_LAT_OR_DIR	Y NUMBER(20,6)	Latitude or offset direction for the geographic object associated with this record
15	GEO_LOC_TYPE	Y VARCHAR2(6)	Location type (lat/lon value or offset) for the geographic object associated with this record

Table Name

**POLYGONAL\_LAYER**

The Polygonal Layer table contains parameters describing the GIS themes or layers that are available for the site.



Seq Name	N Format	Description
1 POLYGONAL_LAYER_ID	N NUMBER(9,0)	Identifier of the GIS layer for this record
2 EXERCISE_NUM	Y NUMBER(9,0)	Exercise number for this record
3 EOC_NAME	Y VARCHAR2(30)	Full name of the EOC
4 GIS_LAYER_ID	Y NUMBER(9,0)	Identifier of the GIS layer that this polygonal layer is associated with
5 XMIT_INIT_DATE	Y DATE	Date of last modification of this record
6 REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**POSITION**

The Position table shows the operator positions that are usually supported in an EOC.

Seq Name	N Format	Description
1 POSITION_CODE	N VARCHAR2(20)	Identifier of the EOC position
2 EOC_NAME	N VARCHAR2(30)	Full name of the EOC
3 POSITION_EMAIL_ADDRESS	Y VARCHAR2(80)	E-mail address associated with the EOC position
4 POSITION_DESCRIPTION	Y VARCHAR2(255)	Text description of the EOC position
5 POSITION_PHONE	Y VARCHAR2(30)	Phone number associated with the EOC position
6 XMIT_INIT_DATE	Y DATE	Date of last modification of this record
7 REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**POSITION\_ASSIGNMENT**

The Assignment table shows the valid operator positions that a person may assume.

Seq Name	N Format	Description
1 PERSON_REF_NUM	N NUMBER(9,0)	Identifier of the person assigned to the EOC position
2 EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3 POSITION_CODE	N VARCHAR2(20)	Identifier of the EOC position for this assignment
4 EOC_NAME	N VARCHAR2(30)	Full name of the EOC
5 ASSIGN_LOCATION	Y VARCHAR2(92)	Position assignment location

Table Name

**POSITION\_PRIV**

The Position Privilege table has the mapping of operator positions and privileges.

Seq Name	N Format	Description
1 POSITION_CODE	N VARCHAR2(20)	Name of Work Position
2 EOC_NAME	N VARCHAR2(30)	Full name of the EOC

3	CP_NAME	N VARCHAR2 (60)	Control Point Name
4	PRIV_NUM	N NUMBER(2,0)	Number representing privilege for specific control point

Table Name

**POTENTIAL\_ACCIDENT**

The Potential Accident table describes the potential accident arising from a work plan activity.

Seq Name	N	Format	Description
1	N	VARCHAR2 (20)	D2PC local ID code (identifies type of D2PC case - agent, munition etc in abbreviated form)
2	N	NUMBER(9,0)	Exercise number for this record
3	Y	VARCHAR2 (2)	Code identifying agent involved in the release
4	Y	VARCHAR2 (127)	Description of potential accident
5	Y	DATE	Date of last modification of this record.
6	Y	VARCHAR2 (30)	MCE igloo
7	Y	NUMBER(8,2)	MCE offset distance from igloo
8	Y	VARCHAR2 (2)	MCE offset direction from igloo
9	Y	NUMBER(12,6)	MCE latitude
10	Y	NUMBER(12,6)	MCE longitude
11	Y	VARCHAR2 (30)	Full name of the EOC
12	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**PRIVILEGE**

The Privilege table describes the authorities and roles of the user.

Seq Name	N	Format	Description
1	N	VARCHAR2 (60)	Control Point Name
2	N	NUMBER(2,0)	Number representing privilege for specific control point
3	N	VARCHAR2 (1)	Flag representing edit privilege
4	N	VARCHAR2 (1)	Flag representing browse privilege
5	Y	NUMBER(9,0)	Identifier of the hazard this record is associated with
6	Y	DATE	Date of last modification of this record
7	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**PROGRAM\_LOCK**

The Program Locking table controls multi-user locking.

Seq Name	N Format	Description
1 LOCK_NAME	N VARCHAR2(40)	Lock name, identifies the type or class of item being locked
2 LOCK_ITEM	N VARCHAR2(80)	Item name, identifies the item being locked. Must be a unique identifier within this type or class of items.
3 FOLDER_ID	N NUMBER(9,0)	Identifier of the folder this record is associated with
4 EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
5 HAZARD_ID	N NUMBER(9,0)	Identifier of the hazard this record is associated with
6 LOCK_TYPE	Y VARCHAR2(10)	Lock type. Determines whether this lock can be broken by others.
7 LOCK_USER	Y VARCHAR2(8)	User code of the person who owns this lock
8 LOCK_DATE	Y DATE	Lock timestamp. Contains the time and date when this lock was created.
9 LOCK_PC	Y VARCHAR2(40)	Name of the workstation which owns this lock
10 LOCK_PROGRAM	Y VARCHAR2(40)	Name of the program which owns this lock

Table Name  
**PROTECTIVE ACTION**

The Protective Action tables describes the protective action activities that are to be used or have been recommended for use.

Seq Name	N Format	Description
1 HAZARD_ID	N NUMBER(9,0)	Identifier of the hazard this record is associated with
2 PROT_ACT_INDEX	N NUMBER(2,0)	Protective action index
3 PROT_ACT_NAME	N VARCHAR2(60)	Protective action name
4 PROT_ACT_ABBREV	N VARCHAR2(16)	Protective action abbreviation
5 PROT_ACT_DESC	N VARCHAR2(127)	Protective action description
6 XMIT_INIT_DATE	Y DATE	Date of last modification of this record.
7 REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity.

Table Name  
**REGULATION**

The Regulation table contains a list of regulations that relate to FEMIS operations.

Seq Name	N Format	Description
1 PLANNING_GOAL	N VARCHAR2(40)	Planning goal
2 REGULATION_CODE	N VARCHAR2(20)	Regulation code
3 REGULATION_DESCRIPTION	Y VARCHAR2(127)	Regulation description

Table Name

**RELEASE**

The Release table describes the agent released from a potential accident.

Seq	Name	N	Format	Description
1	LOCAL_ID_CODE	N	VARCHAR2(20)	D2PC local Id code (identifies type of D2PC case - agent, munition etc in abbreviated form)
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record.
3	RELEASE_NUM	N	NUMBER(2,0)	Index number for this release for this Local ID
4	QUANTITY_PER_RELEASE	Y	NUMBER(13,2)	Quantity for this (spill or airborne) release for this Local ID
5	RELEASE_TYPE	N	VARCHAR2(3)	Type of release for this release for this Local ID
6	QUANTITY_PER_RELEASE_SRC	Y	VARCHAR2(1)	Quantity per release source
7	MUNITIONS_IN_RELEASE	Y	NUMBER(6,2)	Number of munitions for this release for this Local ID
8	MUNITION_TYPE	Y	VARCHAR2(4)	Type of munition for this release for this Local ID
9	HEIGHT_OF_STACK	Y	NUMBER(7,3)	Height of Stack for this (stack) release for this MCE (meters)
10	DIAMETER_OF_STACK	Y	NUMBER(7,3)	Diameter of Stack for this (stack) release for this MCE (meters)
11	TEMPERATURE_OF_STACK	Y	NUMBER(6,3)	Temperature of Stack Effluent for this (stack) release for this MCE (deg Celcius)
12	VELOCITY_OF_EFFLUENT	Y	NUMBER(6,3)	Velocity of Stack Effluent for this (stack) release for this MCE (m/sec)
13	EFFLUENT_RELATIVE_DENSITY	Y	NUMBER(6,3)	Relative Density of Stack Effluent for this (stack) release for this MCE (no units)
14	OUTPUT_CODE	Y	NUMBER(1,0)	Output Control Code for this (stack) release for this Local ID
15	CLOUD_RADIUS	Y	NUMBER(8,2)	Cloud Radius for this (fire) release for this MCE (meters)
16	HEAT_RELEASED	Y	NUMBER(11,2)	Heat Released for this (fire) release for this MCE (cal/sec)
17	TIME_OF_EVAPORATION	Y	NUMBER(6,2)	Evaporation time for this (evaporative) release for this Local ID
18	SURFACE_TYPE	Y	VARCHAR2(3)	Surface Type for this (evaporative) release for this Local ID
19	AREA_OF_PUDDLE	Y	NUMBER(7,3)	Spill Surface Area for this (evaporative) release for this MCE (square meters)
20	LENGTH_OF_PUDDLE	Y	NUMBER(7,3)	Spill Downwind Length for this (evaporative) release for this MCE (meters)

21	HEIGHT_OF_SOURCE	Y	NUMBER(8,2)	Source flag for Height of Source
22	HEIGHT_OF_SOURCE_SRC	Y	VARCHAR2(1)	Height of source
23	SIGMA_X	Y	NUMBER(8,2)	Source Sigma X for this release for this Local ID
24	SIGMA_X_SRC	Y	VARCHAR2(1)	Sigma X source
25	SIGMA_Y	Y	NUMBER(8,2)	Source Sigma Y for this release for this Local ID
26	SIGMA_Y_SRC	Y	VARCHAR2(1)	Sigma Y source
27	SIGMA_Z	Y	NUMBER(8,2)	Source Sigma Z for this release for this Local ID
28	SIGMA_Z_SRC	Y	VARCHAR2(1)	Sigma Z source
29	TIME_AFTER_FUNCT	Y	NUMBER(6,2)	Time After Functioning (for HD or HT, INS) for this release for this MCE (minutes)
30	TIME_AFTER_FUNCT_SRC	Y	VARCHAR2(1)	Time after functioning source
31	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
32	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**REPLICATION\_TEST**

This table is used to test database replication.

Seq Name	N	Format	Description
1		N VARCHAR2(30)	This is used by FMONPC.EXE for testing replication. The structure is copied from the old KNOWN-POINTS table that has been replaced.
2		N NUMBER(9,0)	Exercise number for this record
3		Y VARCHAR2(127)	This is used by FMONPC.EXE for testing replication. The structure is copied from the old KNOWN-POINTS table that has been replaced.
4		N NUMBER(12,0)	Database control column used for integrity

Table Name

**RESOURCE\_ASSIGNMENT**

The Resource Assignment table show the resources assigned to the details of an electronic plan.

Seq Name	N	Format	Description
1		N NUMBER(9,0)	Reference ID of the associated plan
2		N NUMBER(9,0)	Exercise number for this record
3		N NUMBER(7,0)	ID of the associated task
4		N NUMBER(3,0)	Sequential number for all resource assignments to this particular task
5		N NUMBER(9,0)	Reference number for resource definition

6	RESOURCE_QUANTITY	N	NUMBER(10,0)	Quantity of the resource assigned
7	RESOURCE_NOTE	Y	VARCHAR2(127)	Note about this specific resource assignment
8	RESPONSIBLE_EOC	Y	VARCHAR2(30)	Name of EOC
9	PLAN_RESOURCE_DISPOS	Y	VARCHAR2(30)	State of resource after use
10	PLAN_RESOURCE_ID	Y	NUMBER(9,0)	Unused
11	PLAN_POC_AGENCY	Y	NUMBER(9,0)	Code of associated agency
12	PLAN_POC_DEPT	Y	NUMBER(9,0)	Code of associated department
13	PLAN_POC_POSITION	Y	VARCHAR2(30)	Code of associated eoc position
14	OWNER_CODE	Y	NUMBER(9,0)	Agency code of resource owner
15	GEO_OBJECT_ID	Y	NUMBER(9,0)	Geo Object ID for the resource location
16	GEO_LON_OR_DIST	Y	NUMBER(20,6)	Longitude associated with the resource
17	GEO_LAT_OR_DIR	Y	NUMBER(20,6)	Latitude associated with the resource
18	GEO_LOC_TYPE	Y	VARCHAR2(6)	Location type for the resource

Table Name

**RESOURCE\_CATEGORY**

This is the validation data for the types of resources.

Seq	Name	N	Format	Description
1	RESOURCE_CATEGORY	N	VARCHAR2(20)	General type of resource (i.e., trucks, medical equipment)
2	RESOURCE_DESCRIPTION	N	VARCHAR2(127)	Text description of the resource type
3	GIS_SYMBOL_ID	Y	NUMBER(9,0)	ID for the GIS Symbol
4	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
5	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**RESOURCE\_DEFINITION**

This is the validation data for the types of resources.

Seq	Name	N	Format	Description
1	RESOURCE_REF_NUM	N	NUMBER(9,0)	Unique identifier for the resource defined
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	EOC_NAME	N	VARCHAR2(30)	Full name of the EOC
4	RESOURCE_NAME	N	VARCHAR2(40)	Name of the resource
5	RESOURCE_DESCRIPTION	Y	VARCHAR2(127)	Description from resource category table
6	RESOURCE_REUSE_FLAG	N	VARCHAR2(1)	Flag indicating if resource can be reused
7	RESOURCE_USE_LIMITATION	Y	VARCHAR2(254)	Text field describing limitations of the resource
8	RESOURCE_MOBILITY_FLAG	N	VARCHAR2(1)	Flag indicating if resource is mobile
9	RESOURCE_DEFAULT_UNITS	Y	VARCHAR2(10)	Unit of measurement for the resource
10	RESOURCE_CAPACITY_TYPE	Y	VARCHAR2(10)	Type of capacity for resource

11	RESOURCE_CAPACITY_VALUE	Y	NUMBER(10,0)	Value of capacity for resource
12	RESOURCE_CAPACITY_UNITS	Y	VARCHAR2(10)	Units of capacity for resource
13	RESOURCE_CATEGORY	N	VARCHAR2(20)	Category from resource category table
14	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
15	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**RESOURCE\_LOCATION**

The Resource Location table describes the amount and kind of resource found at a location.

Seq	Name	N	Format	Description
1	RESOURCE_REF_NUM	N	NUMBER(9,0)	Identifier of the resource (from resource definition table)
2	OWNER_CODE	N	NUMBER(9,0)	Agency code of the agency responsible for this resource
3	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
4	GEO_OBJECT_ID	N	NUMBER(9,0)	Unique identifier of the geographic object associated with this record
5	EOC_NAME	N	VARCHAR2(30)	Full name of the EOC
6	RESOURCE_QUANTITY_AVAILABLE	N	NUMBER(11,2)	Quantity of resource available
7	RESOURCE_QUANTITY_IN_USE	N	NUMBER(11,2)	Quantity of resource in use
8	MOU_ID	Y	NUMBER(9,0)	ID of related MOU
9	RESOURCE_MOBILIZATION_TIME	N	NUMBER(5,0)	Time to mobilize the resource
10	RESOURCE_DISPOSITION	Y	VARCHAR2(20)	Disposition of resource
11	RESOURCE_ACTIVATION_MINUTES	N	NUMBER(5,0)	Time to activate the resource
12	RESPONSIBLE_EOC	N	VARCHAR2(30)	EOC responsible for resource
13	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
14	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**RESOURCE\_OWNER**

The Resource Owner table describes Agencies, Departments and points of contact for a resource.

Seq	Name	N	Format	Description
1	RESOURCE_REF_NUM	N	NUMBER(9,0)	Resource reference number
2	OWNER_CODE	N	NUMBER(9,0)	Agency code of resource owner
3	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
4	EOC_NAME	N	VARCHAR2(30)	Full name of the EOC
5	RESOURCE_QUANTITY_ASSIGNED	N	NUMBER(10,2)	Amount of resource currently assigned
6	RESOURCE_QUANTITY_AVAILABLE	N	NUMBER(10,2)	Amount of resource currently available for assignment
7	RESOURCE_UNITS	Y	VARCHAR2(10)	Units of resource
8	RESOURCE_PER_UNIT_VALUE	Y	NUMBER(10,2)	Resource per unit value

9	RESOURCE_POC_AGENCY	Y NUMBER(9,0)	Agency code for the point of contact agency
10	RESOURCE_POC_DEPT	Y NUMBER(9,0)	Department code for the point of contact department
11	RESOURCE_POC_POSITION	Y NUMBER(9,0)	Point of contact position
12	RESOURCE_POC_PERSON_REF_NUM	Y NUMBER(9,0)	Reference number of the point of contact person
13	RESOURCE_CRITICAL_LEVEL	N NUMBER(9,0)	Low quantity warning level for the resource
14	RESOURCE_NOTES	Y VARCHAR2(254)	Text field containing general notes about a resource assignment
15	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
16	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**SHARED\_REPORT**

The Shared Report table holds current reports that the EOC shares consisting of text and graphic content.

Seq	Name	N Format	Description
1	SHARED_REPORT_ID	N NUMBER(9,0)	Unique id for each report
2	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3	REPORT_NAME	Y VARCHAR2(80)	Report name
4	REPORT_HEADER	Y VARCHAR2(4000)	Preview of the report text
5	LAST_CHANGE_DATE	Y DATE	Date of last modification of this record
6	LAST_CHANGE_PERSON	Y VARCHAR2(40)	Last person to modify of this record
7	EOC_NAME	Y VARCHAR2(30)	Full name of the EOC
8	HAZARD_ID	Y NUMBER(9,0)	Identifier of the hazard this record is associated with
9	FOLDER_ID	Y NUMBER(9,0)	Identifier of the folder this record is associated with
10	RICH_TEXT_FLAG	Y VARCHAR2(1)	Flag used to determine if the text is in RTF format
11	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
12	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity
13	REPORT_TEXT	Y CLOB	Report text
14	REPORT_GRAPHIC	Y BLOB	Graphic associated with the report

Table Name

**SHELTER\_DEFINITION**

The Shelter Definition table defines capabilities of a shelter used for evacuation.

Seq	Name	N Format	Description
1	SHELTER_TYPE	N VARCHAR2(10)	Type of shelter
2	SHELTER_TYPE_DESCRIPTION	Y VARCHAR2(127)	Shelter Description



Table Name

**SITUATION\_SUMMARY**

The Situation Summary table contains information about conditions present at the onset of a planned or actual emergency.

Seq Name	N Format	Description
1 SS_ID	N NUMBER(9,0)	Reference ID for the situation summary
2 EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3 SS_NAME	N VARCHAR2(127)	Community conditions name
4 COMBO_VALUE_1	Y VARCHAR2(30)	Value in first combo box
5 COMBO_VALUE_2	Y VARCHAR2(30)	Value in second combo box
6 COMBO_VALUE_3	Y VARCHAR2(30)	Value in third combo box
7 COMBO_VALUE_4	Y VARCHAR2(30)	Value in fourth combo box
8 COMBO_VALUE_5	Y VARCHAR2(30)	Value in fifth combo box
9 COMBO_VALUE_6	Y VARCHAR2(30)	Value in sixth combo box
10 TEXT_VALUE_1	Y VARCHAR2(4000)	Value in first text box
11 TEXT_VALUE_2	Y VARCHAR2(4000)	Value in second text box
12 TEXT_VALUE_3	Y VARCHAR2(4000)	Value in third text box
13 TEXT_VALUE_4	Y VARCHAR2(4000)	Value in fourth text box
14 TEXT_VALUE_5	Y VARCHAR2(4000)	Value in fifth text box
15 TEXT_VALUE_6	Y VARCHAR2(4000)	Value in sixth text box
16 HAZARD_ID	N NUMBER(9,0)	Identifier of the hazard this record is associated with
17 PROT_ACT_INDEX	Y NUMBER(2,0)	Default protective action index
18 XMIT_INIT_DATE	Y DATE	Date of last modification of this record
19 REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**STATE**

The State table contains information about the states of the USA.

Seq Name	N Format	Description
1 STATE_CODE	N VARCHAR2(2)	Two character abbreviation for the state
2 STATE_NAME	Y VARCHAR2(15)	Name of the state
3 STATE_FIPS_CODE	Y VARCHAR2(2)	FIPS code for the state

Table Name

**STORED\_AGENT**

The Stored Agent table contains information about agents stored at a CSEPP site.

Seq Name	N Format	Description
1 BUNKER_ID	N NUMBER(9,0)	Identifier of this igloo
2 EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3 AGENT_CODE	N VARCHAR2(2)	Code of agent
4 MUNITION_TYPE	N VARCHAR2(4)	Type of munition
5 MUNITION_QUANTITY	Y NUMBER(6,0)	Quantity of munition
6 MUNITION_QUANTITY_UNITS	Y VARCHAR2(30)	Units of munition

Table Name

**SYSTEM\_PHASE**

The System Phase table contains a list of the Phases that FEMIS can assume.

Seq Name	N	Format	Description
1		PHASE_NAME VARCHAR2(20)	Unique identifier of the geographic object associated with this record
2	Y	PHASE_DESCRIPTION VARCHAR2(127)	Description of the emergency management phase

Table Name

**SYSTEM\_STAGE**

The System Stage table contains a list of the stages that FEMIS can assume.

Seq Name	N	Format	Description
1		STAGE_NAME VARCHAR2(30)	Name of the emergency management stage
2	Y	STAGE_DESCRIPTION VARCHAR2(127)	Description of the emergency management stage

Table Name

**THREAT\_AREA**

The table contains information about a threatened area.

Seq Name	N	Format	Description
1		THREAT_ID NUMBER(9,0)	Identifier for this threat
2		EXERCISE_NUM NUMBER(9,0)	Exercise number for this record
3	Y	THREAT_DATE DATE	Date the threat area was created
4	Y	THREAT_CAT_TYPE VARCHAR2(20)	The 3 types of Threat Area - model based - created with the parameters of the model (no changes made by the user), user defined ( created by the user), template (created by the user to be shared across EOC)
5	Y	THREAT_AREA_TYPE VARCHAR2(20)	Different kinds of shapes - circle, cylinder, wedge or an arbitrary polygon
6	Y	THREAT_AREA_NAME VARCHAR2(30)	Name of the Threat Area
7	Y	MODEL_CASE_ID NUMBER(9,0)	Oracle ID of the model
8	Y	IMPACT_LEVEL VARCHAR2(40)	Level of Impact. Derived from the model if it is model based
9	Y	TA_ANGLE NUMBER(3,0)	Angle of Threat Area
10	Y	TA_DISTANCE NUMBER(10,2)	Distance of Threat Area in meters
11	Y	TA_WIND_DIRECTION NUMBER(5,1)	Wind direction of Threat Area
12	Y	GEO_OBJECT_ID NUMBER(9,0)	Geo Object ID associated to the location
13	Y	GEO_LON_OR_DIST NUMBER(20,6)	If the location is an offset to the object, then the distance is stored in the column

14	GEO_LAT_OR_DIR	Y	NUMBER(20,6)	If the location is an offset to the object, then the direction is stored in the column
15	GEO_LOC_TYPE	Y	VARCHAR2(6)	"object", "point", "offset". An object would indicate the location to be an object. A point would indicate the location is an arbitrary point. An offset would indicate an offset from an object. An empty would indicate a polygonal shape and only a geo object ID is stored.
16	TA_ISOL_RAD	Y	NUMBER(5,0)	Isolation Radius of Threat Area in meters
17	EOC_NAME	N	VARCHAR2(30)	Full name of the EOC
18	HAZARD_ID	Y	NUMBER(9,0)	Identifier of the hazard this record is associated with
19	FOLDER_ID	Y	NUMBER(9,0)	Identifier of the folder this record is associated with
20	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
21	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**TRACKED\_PERSON**

The Tracked Person table contains the names and addresses of accident victims or their next of kin.

Seq	Name	N	Format	Description
1	TK_REF_NUM	N	NUMBER(9,0)	Identifier for this tracked person
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	TK_NAME_FIRST	Y	VARCHAR2(12)	First name of tracked person
4	TK_NAME_LAST	Y	VARCHAR2(20)	Last name of tracked person
5	TK_NAME_SECOND	Y	VARCHAR2(12)	Second name of tracked person
6	TK_CITY_NAME	Y	VARCHAR2(20)	City where the Tracked person lives
7	TK_STATE_CODE	Y	VARCHAR2(2)	State code of Tracked person
8	TK_STREET_ADDRESS1	Y	VARCHAR2(40)	Address of tracked person
9	TK_STREET_ADDRESS2	Y	VARCHAR2(40)	Address of tracked person
10	TK_ZIP_CODE	Y	VARCHAR2(10)	Zip code
11	TK_EMAIL_ADDRESS	Y	VARCHAR2(80)	E-mail address
12	TK_FAX_PHONE	Y	VARCHAR2(30)	Fax phone number
13	TK_HOME_PHONE	Y	VARCHAR2(30)	Home phone number
14	TK_BEEPER_PHONE	Y	VARCHAR2(30)	Beeper phone number
15	TK_SSN	Y	VARCHAR2(15)	Social Security Number
16	TK_DATE_OF_BIRTH	Y	DATE	Date of birth
17	TK_GENDER	Y	VARCHAR2(1)	Gender of Tracked person
18	TK_NICK_NAME	Y	VARCHAR2(12)	Nick Name
19	TK_COUNTY_NAME	Y	VARCHAR2(20)	County name
20	PT_CASUALTY	Y	CHAR(1)	Is he a casualty?
21	PT_EVACUEE	Y	CHAR(1)	Is he an evacuee?
22	PT_SITE	Y	CHAR(1)	Where is he located
23	PT_TRACKED	Y	CHAR(1)	Is he being tracked
24	TK_COMMENT	Y	VARCHAR2(255)	Any comments

25	CEL_PHONE	Y VARCHAR2 (30)	Cell phone
26	EMAIL_ADDRESS2	Y VARCHAR2 (80)	E-mail address
27	WEB_ADDRESS	Y VARCHAR2 (4000)	Web address

Table Name

**UDS\_COLUMN**

Maintains data areas that can be used for the column data for a User Defined Status Board.

Seq	Name	N	Format	Description
1	COLUMN_ID	N	NUMBER(9,0)	Unique identifier for this field
2	UD_TABLE_ID	N	NUMBER(9,0)	Unique identifier of the status board which owns this field
3	EOC_NAME	N	VARCHAR2(30)	Full name of the EOC
4	FOLDER_ID	Y	NUMBER(9,0)	Identifier of the folder this record is associated with
5	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
6	COLUMN_NAME	N	VARCHAR2(30)	Field title in pre-1.3 designs. Used in Sort, Filter, other pick lists. Not used by newer designs.
7	COLUMN_SQL_TYPE	N	VARCHAR2(15)	Field's SD data type in pre-1.3 designs. Not used by newer designs.
8	TABLE_FROM	Y	VARCHAR2(60)	Name of the database table where this field's data is stored
9	COLUMN_FROM	Y	VARCHAR2(250)	Name of the database field where this field's data is stored
10	SELECTION_STRING	Y	VARCHAR2(1000)	Field's filter string. (Not implemented).
11	MAX_LENGTH	Y	NUMBER(6,0)	Maximum length for this field's data
12	DEFAULT_VALUE	Y	VARCHAR2(127)	Default value of this field added to new records only.
13	GRID_COLUMN_NO	Y	NUMBER(6,0)	Grid column number (1..n). Used when this field is displayed as a spreadsheet column.
14	GRID_COLUMN_WIDTH	Y	NUMBER(4,0)	Grid column width (0..n). Used when this field is displayed as a spreadsheet column.
15	TITLE	Y	VARCHAR2(60)	Field title in v1.3 and later designs. Used in Sort, Filter, other pick lists.
16	DESCRIP	Y	VARCHAR2(127)	Descriptive text about this field
17	DATA_TYPE	Y	VARCHAR2(30)	Field's SD data type
18	UDS_CP_NAME	Y	VARCHAR2(60)	Control point name associated with this field. Used to control access to data in this field. (Not implemented).

19	ATTR_FLAGS	Y VARCHAR2 (30)	Field attribute flags. Each attribute is represented by a unique character, can be in any order.
20	MIN_VALUE	Y VARCHAR2 (127)	Minimum value for this field's data. Not applicable for TEXT data.
21	MAX_VALUE	Y VARCHAR2 (127)	Maximum value for this field's data. Not applicable for TEXT data.
22	SOURCE_TAG	Y VARCHAR2 (30)	Source field's identifier
23	SOURCE_DATA_TYPE	Y VARCHAR2 (30)	Source field's SD data type
24	SOURCE_MAX_LENGTH	Y VARCHAR2 (4)	Source field's length limit
25	GRID_COLUMN_HDG	Y VARCHAR2 (30)	Grid column heading. Used when this field is displayed as a spreadsheet column.
26	GRID_COLUMN_FLAGS	Y VARCHAR2 (30)	Grid column attribute flags. Each attribute is represented by a unique character, can be in any order. Used when this field is displayed as a spreadsheet column.
27	RECORD_FORMAT	Y VARCHAR2 (30)	Record format code. Used for identifying the format of this record's data.
28	REVISION_NUM	Y NUMBER	Field revision number. Used to determine whether data has been changed.
29	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
30	SQL_DATA_TYPE	Y VARCHAR2 (30)	SQL data type for this field (TEXT, NUMBER, or DATE)
31	FORM_FIELD_ATTRIBUTES	Y VARCHAR2 (4000)	Attributes specifying how this field should be displayed on a detail form
32	AGGR_PARENT_NAME	Y VARCHAR2 (30)	Name of the aggregate data object which contains this field
33	AGGR_ITEM_NAME	Y VARCHAR2 (30)	Name of this field's role within an aggregate object
34	AGGR_ITEM_ATTRIBUTES	Y VARCHAR2 (4000)	Attributes specifying how this field should behave in an aggregate object, stored as key=value pairs
35	EXTRA_ATTRIBUTES	Y VARCHAR2 (4000)	Extra attributes for this field, stored as key=value pairs
36	MOD_COUNT	Y NUMBER (8,0)	Modification count for this field
37	MOD_USERNAME	Y VARCHAR2 (60)	Person name associated with the most recent modification of this field
38	MOD_USERCODE	Y VARCHAR2 (30)	User code associated with the most recent modification of this field
39	GRID_COLUMN_ATTRIBUTES	Y VARCHAR2 (4000)	Attributes specifying how this field should be displayed as a grid column, stored as character flags
40	MOD_DATE	Y DATE	Timestamp for the most recent modification of this field

41	LIST_ITEM_ID	Y NUMBER(9,0)	Unique ID for the list item associated with this field
42	LIST_ITEM_ATTRS	Y VARCHAR2(40)	Attributes specifying how this field should behave as a list item
43	SHARE_FLAGS	Y VARCHAR2(40)	Flags specifying how this field should be shared with other status boards
44	SHARE_KEY	Y VARCHAR2(40)	Unique name by which this field is shared with other status boards
45	IMPORT_FLAGS	Y VARCHAR2(40)	Flags specifying how this field is imported from another status board
46	IMPORT_KEY	Y VARCHAR2(40)	Unique key for importing this field from another status board
47	IMPORT_EOC	Y VARCHAR2(60)	EOC from which this field is imported
48	AUX_REC_TYPE	Y VARCHAR2(30)	Record type code for the auxiliary record associated with this field
49	AUX_REC_ID	Y NUMBER(9,0)	Unique ID for the auxiliary record associated with this field
50	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**UDS\_ROW**

This table contains data areas that can be used for the row data for User Defined Status Boards.

Seq	Name	N	Format	Description
1	UDS_ROW_ID	N	NUMBER(9,0)	Row identifier
2	MOD_DATE	N	DATE	Timestamp for the most recent modification of this record
3	UD_TABLE_ID	N	NUMBER(9,0)	Unique identifier of the user-defined table which owns this record
4	EOC_NAME	N	VARCHAR2(30)	Full name of the EOC
5	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
6	HAZARD_ID	N	NUMBER(9,0)	Identifier of the hazard this record is associated with
7	FOLDER_ID	Y	NUMBER(9,0)	Identifier of the folder this record is associated with
8	UDS_ROW_CREATE_DATE	Y	DATE	Timestamp when this record was created
9	UDS_ROW_MOD_DATE	Y	DATE	Timestamp when this record was last modified
10	UDS_VALUE1	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
11	UDS_VALUE2	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
12	UDS_VALUE3	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.

13	UDS_VALUE4	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
14	UDS_VALUE5	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
15	UDS_VALUE6	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
16	UDS_VALUE7	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
17	UDS_VALUE8	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
18	UDS_VALUE9	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
19	UDS_VALUE10	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
20	UDS_ACTUAL_TIME	Y DATE	Record timestamp. Used as the record key in pre-1.3 databases but was not sufficiently unique.
21	CURRENT_RECORD_FLAG	Y VARCHAR2(1)	Current Record indicator. Used to identify the current version of a record.
22	UPDATE_PERSON_REF_NUM	Y NUMBER(9,0)	Reference number for the last person who modified this record
23	UDS_HISTORY_LINK_ID	Y NUMBER(9,0)	History link ID. Specifies the original record for a history group.
24	UDS_NUMBER1	Y NUMBER	Numeric data storage. Used by NUMBER fields.
25	UDS_NUMBER2	Y NUMBER	Numeric data storage. Used by NUMBER fields.
26	UDS_NUMBER3	Y NUMBER	Numeric data storage. Used by NUMBER fields.
27	UDS_NUMBER4	Y NUMBER	Numeric data storage. Used by NUMBER fields.
28	UDS_NUMBER5	Y NUMBER	Numeric data storage. Used by NUMBER fields.
29	UDS_NUMBER6	Y NUMBER	Numeric data storage. Used by NUMBER fields.
30	UDS_NUMBER7	Y NUMBER	Numeric data storage. Used by NUMBER fields.
31	UDS_NUMBER8	Y NUMBER	Numeric data storage. Used by NUMBER fields.
32	UDS_NUMBER9	Y NUMBER	Numeric data storage. Used by NUMBER fields.
33	UDS_NUMBER10	Y NUMBER	Numeric data storage. Used by NUMBER fields.
34	UDS_DATETIME1	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
35	UDS_DATETIME2	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
36	UDS_DATETIME3	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.

37	UDS_DATETIME4	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
38	UDS_DATETIME5	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
39	UDS_YESNO1	Y VARCHAR2(1)	Yes-No data storage. Used by YESNO fields.
40	UDS_YESNO2	Y VARCHAR2(1)	Yes-No data storage. Used by YESNO fields.
41	UDS_YESNO3	Y VARCHAR2(1)	Yes-No data storage. Used by YESNO fields.
42	UDS_YESNO4	Y VARCHAR2(1)	Yes-No data storage. Used by YESNO fields.
43	UDS_YESNO5	Y VARCHAR2(1)	Yes-No data storage. Used by YESNO fields.
44	RECORD_FORMAT	Y VARCHAR2(30)	Record format code. Used for identifying the format of this record's data.
45	REVISION_NUM	Y NUMBER	Field revision number. Used to determine whether data has been changed.
46	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
47	UDS_LOCATION1	Y NUMBER(20,6)	Map coordinate data storage. Used by MAPCOORD fields.
48	UDS_LOCATION2	Y NUMBER(20,6)	Map coordinate data storage. Used by MAPCOORD fields.
49	UDS_LOCATION3	Y NUMBER(20,6)	Map coordinate data storage. Used by MAPCOORD fields.
50	UDS_LOCATION4	Y NUMBER(20,6)	Map coordinate data storage. Used by MAPCOORD fields.
51	UDS_LOCATION5	Y NUMBER(20,6)	Map coordinate data storage. Used by MAPCOORD fields.
52	UDS_DATETIME6	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
53	UDS_DATETIME7	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
54	UDS_DATETIME8	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
55	UDS_DATETIME9	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
56	UDS_DATETIME10	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
57	UDS_VALUE11	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
58	UDS_VALUE12	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
59	UDS_VALUE13	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
60	UDS_VALUE14	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
61	UDS_VALUE15	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
62	UDS_VALUE16	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.



63	UDS_VALUE17	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
64	UDS_VALUE18	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
65	UDS_VALUE19	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
66	UDS_VALUE20	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
67	UDS_VALUE21	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
68	UDS_VALUE22	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
69	UDS_VALUE23	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
70	UDS_VALUE24	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
71	UDS_VALUE25	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
72	UDS_VALUE26	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
73	UDS_VALUE27	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
74	UDS_VALUE28	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
75	UDS_VALUE29	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
76	UDS_VALUE30	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
77	UDS_VALUE31	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
78	UDS_VALUE32	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
79	UDS_VALUE33	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
80	UDS_VALUE34	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
81	UDS_VALUE35	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
82	UDS_VALUE36	Y	VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.

83	UDS_VALUE37	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
84	UDS_VALUE38	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
85	UDS_VALUE39	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
86	UDS_VALUE40	Y VARCHAR2(4000)	Text data storage. Used by TEXT, NUMTEXT, and DATETEXT fields.
87	UDS_NUMBER11	Y NUMBER	Numeric data storage. Used by NUMBER fields.
88	UDS_NUMBER12	Y NUMBER	Numeric data storage. Used by NUMBER fields.
89	UDS_NUMBER13	Y NUMBER	Numeric data storage. Used by NUMBER fields.
90	UDS_NUMBER14	Y NUMBER	Numeric data storage. Used by NUMBER fields.
91	UDS_NUMBER15	Y NUMBER	Numeric data storage. Used by NUMBER fields.
92	UDS_NUMBER16	Y NUMBER	Numeric data storage. Used by NUMBER fields.
93	UDS_NUMBER17	Y NUMBER	Numeric data storage. Used by NUMBER fields.
94	UDS_NUMBER18	Y NUMBER	Numeric data storage. Used by NUMBER fields.
95	UDS_NUMBER19	Y NUMBER	Numeric data storage. Used by NUMBER fields.
96	UDS_NUMBER20	Y NUMBER	Numeric data storage. Used by NUMBER fields.
97	UDS_NUMBER21	Y NUMBER	Numeric data storage. Used by NUMBER fields.
98	UDS_NUMBER22	Y NUMBER	Numeric data storage. Used by NUMBER fields.
99	UDS_NUMBER23	Y NUMBER	Numeric data storage. Used by NUMBER fields.
100	UDS_NUMBER24	Y NUMBER	Numeric data storage. Used by NUMBER fields.
101	UDS_NUMBER25	Y NUMBER	Numeric data storage. Used by NUMBER fields.
102	UDS_NUMBER26	Y NUMBER	Numeric data storage. Used by NUMBER fields.
103	UDS_NUMBER27	Y NUMBER	Numeric data storage. Used by NUMBER fields.
104	UDS_NUMBER28	Y NUMBER	Numeric data storage. Used by NUMBER fields.
105	UDS_NUMBER29	Y NUMBER	Numeric data storage. Used by NUMBER fields.
106	UDS_NUMBER30	Y NUMBER	Numeric data storage. Used by NUMBER fields.
107	UDS_DATETIME11	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
108	UDS_DATETIME12	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
109	UDS_DATETIME13	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
110	UDS_DATETIME14	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.

111	UDS_DATETIME15	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
112	UDS_DATETIME16	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
113	UDS_DATETIME17	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
114	UDS_DATETIME18	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
115	UDS_DATETIME19	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
116	UDS_DATETIME20	Y DATE	Date-Time data storage. Used by DATETIME and TIME fields.
117	UDS_YESNO6	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
118	UDS_YESNO7	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
119	UDS_YESNO8	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
120	UDS_YESNO9	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
121	UDS_YESNO10	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
122	UDS_YESNO11	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
123	UDS_YESNO12	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
124	UDS_YESNO13	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
125	UDS_YESNO14	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
126	UDS_YESNO15	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
127	UDS_YESNO16	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
128	UDS_YESNO17	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
129	UDS_YESNO18	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
130	UDS_YESNO19	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
131	UDS_YESNO20	Y VARCHAR2 (1)	Yes-No data storage. Used by YESNO fields.
132	EXTRA_ATTRIBUTES	Y VARCHAR2 (4000)	Extra attributes for this record, stored as key=value pairs
133	MOD_COUNT	Y NUMBER (8,0)	Modification count for this record
134	MOD_USERNAME	Y VARCHAR2 (60)	Person name associated with the most recent modification of this record
135	MOD_USERCODE	Y VARCHAR2 (30)	User code associated with the most recent modification of this record
136	LIST_ITEM_ID	Y NUMBER (9,0)	Unique ID for the list item associated with this record
137	SHARE_KEY	Y VARCHAR2 (40)	Data-sharing key associated with this record
138	REPLICATION_ID	N NUMBER (12,0)	Database control column used for integrity

Table Name

**USER\_DEFINED\_OBJECT**

This table contains attributes for point or polygonal objects that the site has defined.

Seq Name	N	Format	Description
1		NUMBER(9,0)	Identifier for this object
2		NUMBER(9,0)	Exercise number for this record
3		VARCHAR2(30)	Name of the object
4		NUMBER(9,0)	Oracle ID for the class of this object
5		NUMBER(9,0)	Oracle ID for the subclass of this object
6		NUMBER(9,0)	Oracle ID of the GIS object
7	Y	VARCHAR2(255)	Description of the Object
8		VARCHAR2(30)	Full name of the EOC
9	Y	VARCHAR2(255)	Point of Contact
10	Y	VARCHAR2(2000)	Notes for the Object
11		DATE	Last Changed Date
12		VARCHAR2(40)	Person who changed it last
13	Y	DATE	Date of last modification of this record
14		NUMBER(12,0)	Database control column used for integrity

Table Name

**USER\_DEFINED\_STATUS**

This is the high level description table of a User Defined Status Board.

Seq Name	N	Format	Description
1		NUMBER(9,0)	Unique identifier for this status board
2		VARCHAR2(30)	Full name of the EOC
3		NUMBER(9,0)	Exercise number for this record
4		VARCHAR2(30)	Dataset name. Unique identifier for this dataset.
5		NUMBER(9,0)	Identifier of the hazard this record is associated with
6	Y	NUMBER(9,0)	Identifier of the folder this record is associated with
7	Y	NUMBER(4,0)	Number of fields in this dataset. Provided as a convenience for database update scripts.
8	Y	DATE	Timestamp when this record was last modified.
9	Y	VARCHAR2(127)	Dataset title. Used to identify this dataset in pick lists, etc.
10	Y	VARCHAR2(255)	Descriptive text about this dataset
11	Y	VARCHAR2(15)	Default access privileges for all users of this dataset. Will be combined with explicit user privileges at runtime.
12	Y	VARCHAR2(60)	Dataset's control point name

13	UDS_DEFAULT_SORT	Y	VARCHAR2 (255)	Default Sort order for this dataset
14	UDS_ATTR_FLAGS	Y	VARCHAR2 (30)	Dataset attribute flags. Each attribute is represented by a unique character, can be in any order.
15	RECORD_FORMAT	Y	VARCHAR2 (30)	Record format code. Used for identifying the format of this record's data.
16	REVISION_NUM	Y	NUMBER	Field revision number. Used to determine whether data has been changed.
17	SHARING_FLAGS	Y	VARCHAR2 (30)	Character flags specifying how this status board is shared with other EOCs, exercises, and hazards
18	VISIBILITY_FLAGS	Y	VARCHAR2 (30)	Character flags specifying the roles in which this status board can be used
19	VISIBILITY_ATTRIBUTES	Y	VARCHAR2 (2000)	Attributes specifying this status board's visibility in different contexts
20	RELATION_ATTRIBUTES1	Y	VARCHAR2 (2000)	Table relationship attributes #1
21	RELATION_ATTRIBUTES2	Y	VARCHAR2 (2000)	Table relationship attributes #2
22	RELATION_ATTRIBUTES3	Y	VARCHAR2 (2000)	Table relationship attributes #3
23	RELATION_ATTRIBUTES4	Y	VARCHAR2 (2000)	Table relationship attributes #4
24	RELATION_ATTRIBUTES5	Y	VARCHAR2 (2000)	Table relationship attributes #5
25	RELATION_STRING1	Y	VARCHAR2 (2000)	Table relationship string #1
26	RELATION_STRING2	Y	VARCHAR2 (2000)	Table relationship string #2
27	RELATION_STRING3	Y	VARCHAR2 (2000)	Table relationship string #3
28	RELATION_STRING4	Y	VARCHAR2 (2000)	Table relationship string #4
29	RELATION_STRING5	Y	VARCHAR2 (2000)	Table relationship string #5
30	EXTRA_ATTRIBUTES	Y	VARCHAR2 (4000)	Extra attributes for this status board, stored as key=value pairs
31	MOD_COUNT	Y	NUMBER (8,0)	Modification count for this status board design
32	MOD_USERNAME	Y	VARCHAR2 (60)	Person name associated with the most recent modification of this status board design
33	MOD_USERCODE	Y	VARCHAR2 (30)	User code associated with the most recent modification of this status board design
34	PRIMARY_DATA_TABLE	Y	VARCHAR2 (120)	Name of the primary table for storing status board records
35	TABLE1_ATTRIBUTES	Y	VARCHAR2 (2000)	Attributes for table 1 associated with this status board
36	TABLE2_ATTRIBUTES	Y	VARCHAR2 (2000)	Attributes for table 2 associated with this status board
37	TABLE3_ATTRIBUTES	Y	VARCHAR2 (2000)	Attributes for table 3 associated with this status board

38	TABLE4_ATTRIBUTES	Y VARCHAR2(2000)	Attributes for table 4 associated with this status board
39	TABLE5_ATTRIBUTES	Y VARCHAR2(2000)	Attributes for table 5 associated with this status board
40	MOD_DATE	Y DATE	Timestamp for the most recent modification to this status board design
41	TABLE_TYPE	Y VARCHAR2(40)	Status board type code (Table, List, or Collection)
42	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
43	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**USER\_MODE\_PRIV**

The User Mode Privilege table maps the privileges available to a user in the current mode.

Seq Name	N Format	Description
1 CP_NAME	N VARCHAR2(60)	Control Point name
2 PRIV_NUM	N NUMBER(2,0)	Number representing privilege for specific control point
3 MODE_NAME	N VARCHAR2(10)	Name of mode associated with the control point
4 USER_CODE	N VARCHAR2(8)	The account name of a FEMIS user

Table Name

**USER\_PREFERENCES**

The User Preferences table is used to store individual femis users' run time preferences.

Seq Name	N Format	Description
1 USER_CODE	N VARCHAR2(8)	The account name of a FEMIS user
2 PREFERENCES_NUM	N NUMBER(9,0)	The sequential number for that preference
3 PREFERENCES_TEXT	Y VARCHAR2(4000)	The preference details

Table Name

**VALIDATION**

The Validation table is used by planning to validate tasks in an electronic plan.

Seq Name	N Format	Description
1 PLAN_REF_ID	N NUMBER(9,0)	Reference ID of the associated plan
2 EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3 VALIDATE_NUM	N NUMBER(3,0)	Unique identifier of validation record
4 ERROR_CLASS	Y VARCHAR2(40)	Class of error
5 ERROR_DESCRIPTION	Y VARCHAR2(127)	Description of error

Table Name

**VAL\_LIST**

The Val List table is used to validate various sets of user entered values.

Seq Name	N Format	Description
1 VL_NAME	N VARCHAR2(30)	Unique name for a list of values
2 VL_TYPE	Y VARCHAR2(10)	Value list type code
3 VL_DESCRIPTION	Y VARCHAR2(127)	Description for a list of values

Table Name

**VAL\_LIST\_DATA**

The Val List Data table contains validate sets of system values.

Seq Name	N Format	Description
1 VL_NAME	N VARCHAR2(30)	Unique name for the list which owns this item
2 VLD_SEQUENCE_NO	N NUMBER(7,0)	Sequence number for this value
3 VLD_TEXT	Y VARCHAR2(80)	Text for the list value
4 VLD_SORT_NO	Y NUMBER(7,0)	Sort number for this list value

Table Name

**VAL\_POSITION**

The Val Position table is used to validate position descriptions.

Seq Name	N Format	Description
1 POSITION_CODE	N VARCHAR2(20)	The short name of the position
2 POSITION_NAME	Y VARCHAR2(50)	The long name of the position

Table Name

**VIEWMARK\_DEF**

The View Mark Definition table is used to store the valid types of GIS view mark information.

Seq Name	N Format	Description
1 VIEWMARK_ID	N NUMBER(9,0)	Database identifier of ViewMark
2 VIEWMARK_NAME	N VARCHAR2(40)	ViewMark name
3 VIEWMARK_DESCRIPTION	Y VARCHAR2(4000)	ViewMark description
4 VIEWMARK_SHARED_FLAG	N VARCHAR2(1)	Shared ViewMark indicator (Y/N)
5 USER_CODE	Y VARCHAR2(8)	FEMIS user code
6 VIEWMARK_DATA	Y CLOB	ViewMark data

Table Name

**WK\_POSITION**

The Work Position table has information about the positions within a department.

Seq Name	N Format	Description
1 WK_POSITION_ID	N NUMBER(9,0)	Work position ID
2 EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3 POSITION_TITLE	N VARCHAR2(40)	Name of the work position

4	DEPT_CODE	N NUMBER(9,0)	Department code for the work position
5	EOC_NAME	Y VARCHAR2(30)	Full name of the EOC
6	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
7	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**WORK\_PLAN**

The Work Plan table has header information about a work plan.

Seq	Name	N Format	Description
1	WORK_PLAN_ID	N NUMBER(9,0)	Designates whether plan is offpost or onpost
2	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3	WP_COMMENT	Y VARCHAR2(255)	General comment about the Work Plan
4	LAST_CHANGE_DATE	N DATE	Date/time model case was saved or last modified
5	LAST_CHANGE_PERSON	N VARCHAR2(40)	User_Code of person saving or last modifying the case
6	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
7	FOLDER_ID	Y NUMBER(9,0)	Identifier of the folder this record is associated with
8	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**WORK\_PLAN\_ACT**

The Work Plan Act table is a link between the Work Plan and the activities on the Work plan.

Seq	Name	N Format	Description
1	WORK_PLAN_ID	N NUMBER(9,0)	Designates whether plan is offpost or onpost as well as identifying it from other plans
2	EXERCISE_NUM	N NUMBER(9,0)	Exercise number for this record
3	WORK_PLAN_INDEX	N NUMBER(9,0)	Unique identifier of a complete Work Plan
4	WPA_NAME	Y VARCHAR2(30)	Activity name
5	WPA_WORST_CASE_FLAG	Y VARCHAR2(1)	Indicates if the given activity is the worst case of those identified in the Work Plan
6	WPA_END_DATE	Y DATE	End date/time of Work Plan Activity
7	WPA_START_DATE	Y DATE	Start date/time of Work Plan Activity
8	WPA_TEAM_COUNT	Y NUMBER(3,0)	Number of workers assigned to the Work Plan Activity
9	WPA_COMMENT	Y VARCHAR2(512)	General comment on the Work Plan Activity
10	EMIS_EVENT_NUM	Y NUMBER(4,0)	EMIS event number



11	WPA_DESCRIPTION	Y	VARCHAR2 (254)	Description of a Work Plan Activity
12	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
13	FOLDER_ID	Y	NUMBER (9,0)	Identifier of the folder this record is associated with
14	GEO_OBJECT_ID	Y	NUMBER (9,0)	Unique identifier of the geographic object associated with this record
15	REPLICATION_ID	N	NUMBER (12,0)	Database control column used for integrity
16	HAZARD_CASE_ID	Y	NUMBER (9,0)	Unique identifier of the hazard case associated with an activity
17	GEO_LON_OR_DIST	Y	NUMBER (20,6)	Longitude or the offset distance for the geographic object associated with this record
18	GEO_LAT_OR_DIR	Y	NUMBER (20,6)	Latitude or offset direction for the geographic object associated with this record
19	GEO_LOC_TYPE	Y	VARCHAR2 (6)	Location type (lat/lon value or offset) for the geographic object associated with this record

Table Name

**WORK\_PLAN\_LIBRARY**

The table contains possible activities for the Work plan.

Seq	Name	N	Format	Description
1	WPA_ID	N	NUMBER (9,0)	Unique Work Plan Activity Id of an activity within the activity library
2	EXERCISE_NUM	N	NUMBER (9,0)	Exercise number for this record
3	WPA_DESCRIPTION	Y	VARCHAR2 (254)	Description of an activity in the library
4	WPA_AGENT_CODE	Y	VARCHAR2 (2)	Chemical agent involved in the activity
5	WPA_MUNITION_TYPE	Y	VARCHAR2 (4)	Munition involved in the activity
6	WPA_MUNITION_IN_ACT	Y	NUMBER (7,0)	Number of munitions in the activity (no longer used)
7	WPA_NOTE	Y	VARCHAR2 (254)	Additional textual information about the activity
8	ACTIVITY_CODE	Y	VARCHAR2 (20)	Broad category of the activity
9	LOCAL_ID_CODE	Y	VARCHAR2 (20)	Local id code associated with the activity
10	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
11	REPLICATION_ID	N	NUMBER (12,0)	Database control column used for integrity

Table Name

**ZONE**

The Zone table contains the zones that have been defined for a site.

Seq	Name	N	Format	Description
1	ZONE_NAME	N	VARCHAR2 (30)	Zone name
2	POLYGONAL_LAYER_ID	N	NUMBER(9,0)	Identifier of the GIS layer for this record
3	ZONE_TYPE	N	VARCHAR2 (5)	Zone type
4	EMIS_ZONE_NAME	Y	VARCHAR2 (80)	Name of this zone in EMIS
5	ZONE_NUMBER	Y	NUMBER(9,0)	Unique zone number (0,1,2,...) within this EOC plus 10000 * EOC_Num of primary EOC
6	PRIMARY_EOC_NAME	N	VARCHAR2 (30)	Name of EOC that has primary jurisdiction over the zone
7	POPULATION	Y	NUMBER(9,0)	Population within zone boundary

Table Name

**ZONE\_CLUSTER\_IN\_GROUP**

The Zone Cluster in Group table contains the names of risk group clusters used at an EOC.

Seq	Name	N	Format	Description
1	RISK_AREA_ID	N	NUMBER(9,0)	Identifier of risk area (zone group)
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	CLUSTER_EOC_NAME	N	VARCHAR2 (30)	Name of EOC which has jurisdiction for this zone cluster
4	ZONE_CLUSTER_ID	Y	NUMBER(9,0)	Cluster ID uniquely defining the set of zones comprising this cluster
5	POLYGONAL_LAYER_ID	N	NUMBER(9,0)	Identifier of the GIS layer for this record
6	EDIT_FLAG	N	VARCHAR2 (1)	Indicator of editability from FEMIS of this record (Y/N)
7	EOC_NAME	N	VARCHAR2 (30)	Full name of the EOC
8	XMIT_INIT_DATE	Y	DATE	Date of last modification of this record
9	REPLICATION_ID	N	NUMBER(12,0)	Database control column used for integrity

Table Name

**ZONE\_IN\_GROUP**

The Zone In Group table contains the zones that are in a risk group.

Seq	Name	N	Format	Description
1	RISK_AREA_ID	N	NUMBER(9,0)	Identifier of risk area (zone group)
2	EXERCISE_NUM	N	NUMBER(9,0)	Exercise number for this record
3	ZONE_NAME	N	VARCHAR2 (30)	Zone name
4	POLYGONAL_LAYER_ID	N	NUMBER(9,0)	Identifier of the GIS layer for this record
5	EDIT_FLAG	N	VARCHAR2 (1)	Indicator of editability from FEMIS of this record (Y/N)
6	EOC_NAME	N	VARCHAR2 (30)	Full name of the EOC

7	XMIT_INIT_DATE	Y DATE	Date of last modification of this record
8	REPLICATION_ID	N NUMBER(12,0)	Database control column used for integrity

Table Name

**ZONE\_RISK\_GROUP**

The Zone Risk Group table contains the names of risk groups commonly used at an EOC.

Seq Name	N Format	Description
1	RISK_AREA_ID N NUMBER(9,0)	Identifier for this risk area
2	EXERCISE_NUM N NUMBER(9,0)	Exercise number for this record
3	ZONE_RISK_GROUP_NAME N VARCHAR2(40)	Name/Ref. # of Risk Area
4	ZONE_GROUP_TYPE N VARCHAR2(20)	Valid group type for this risk group
5	ZONE_RISK_GP_DESCRIPTION Y VARCHAR2(4000)	Description of Risk Area (Generated RA's include min/max statistics and zone list)
6	EOC_CLUSTER_ID Y NUMBER(9,0)	Not currently used (placeholder for encoded number identifying EOCs that have zones in this RA)
7	POLYGONAL_LAYER_ID N NUMBER(9,0)	Identifier of the GIS layer for this record
8	EDIT_FLAG N VARCHAR2(1)	Flag to control subsequent edits
9	EOC_NAME N VARCHAR2(30)	Full name of the EOC
10	XMIT_INIT_DATE Y DATE	Date of last modification of this record
11	REPLICATION_ID N NUMBER(12,0)	Database control column used for integrity

Table Name

**ZONE\_TYPE**

The Zone Type table contains the valid list of zone types that may be used.

Seq Name	N Format	Description
1	ZONE_TYPE N VARCHAR2(5)	Valid zone type
2	ZONE_DESCRIPTION Y VARCHAR2(127)	Description of valid zone

## **Appendix D**

### **Database Data Models**

## **Appendix D – Database Data Models**

The FEMIS v1.5.3 data model illustrates what information is present and how the data objects are interrelated. The insert is available from PNNL.