

**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 v1.4.7.2 to the current version, FEMIS v1.5. There were no database schema changes from FEMIS v1.4.7 to v1.4.7.2.

| Table Name   | Column Name/Definition  | Description of Change   |
|--|---|---|
| BUNKER   | BUNKER_CODE   | Removed column from table   |
| CASE_ATTR  |   | Created table; see description in Appendix C  |
| CASE_MANAGER   |   | Created table; see description in Appendix C  |
| CASUALTY, WORK_PLAN_ACT, BTB_PLAN_DETAIL, BTB_RESOURCE_ASSIGNMENT, PLAN_DETAIL, PLUME, RESOURCE_ASSIGNMENT | GEO_LON_OR_DIST: Number (20,6),<br>GEO_LAT_OR_DIR: Number (20,6),<br>GEO_LOC_TYPE: VARCHAR2 (6) | Added these three columns to each of the tables listed in the Table Name column                   |
| CSEPP_ACCIDENT   | D2_CASE_ID, HAZARD_CASE_ID  | Removed D2_CASE_ID and added HAZARD_CASE_ID to the CSEPP_ACCIDENT table                           |
| D2_I_CONCENTRATION   | D2_I_CONC_CI_D  | Shortened column to VARCHAR2 (40)   |
| D2_I_DOSAGE  | D2_I_DOSAGE_DI_D  | Shortened column to VARCHAR2 (40)   |
| D2_INPUT   | D2_I_MOD_DT, D2_I_FMV   | Changed first column from a VARCHAR2 (28) to a date column and increased second to NUMBER (11, 3) |
| EOC  | EOC_RESPONSIBILITY_AREA   | Dropped column from table   |
| FEMIS_USER   | TOOLBAR_INFO  | Added column to table. Defined as BLOB  |
| FOLDER   | DATASET_NAME  | Removed column from table   |
| FREE_FORM_LOG  | INCIDENT_LOCATION   | Column Changed to VARCHAR2 (40)   |
| FREE_FORM_LOG  | INCIDENT_SUBJECT  | Column Changed to VARCHAR2 (40)   |
| G_DEF_NAV_BUTTON   | AVAIL_IN_OPS  | Removed column from table   |
| G_DEF_NAV_BUTTON   | AVAIL_IN_PLAN   | Removed column from table   |

| Table Name         | Column Name/Definition | Description of Change                                 |
|--------------------|------------------------|---|
| G_DEF_NAV_BUTTON   | ICON_NAME              | Added column to table.<br>Defined as VARCHAR2 (20)    |
| G_DEF_NAV_FUNCTION | FUNCTION_NOTIF_NAME    | Added column to table.<br>Defined as VARCHAR2 (50)    |
| G_DEF_SHARING      |                        | Created table; see description<br>in Appendix C       |
| G_NAVIGATOR_ITEM   |                        | Dropped table from database                           |
| GENERIC_TEXT       |                        | Dropped table from database                           |
| HAZARD_CASE        |                        | Created table; see description<br>in Appendix C       |
| HAZARD_CASE_ITEM   |                        | Created table; see description<br>in Appendix C       |
| JOURNAL            |                        | Added column<br>JOURNAL_SOURCE_ID                     |
| LOCAL_CONFIG       |                        | Dropped table from database                           |
| MET_CLUSTER        | CLUSTER_HEIGHT         | Modified column to be<br>defined as a NUMBER (9, 4)   |
| MET_CONDITION      | RAIN_FALL              | Added column to table.<br>Defined as a NUMBER (10, 6) |
| MET_CONDITION      | WIND_SPEED             | Modified column to be<br>defined as a NUMBER (7, 4)   |
| MET_CONDITION      | WIND_DIR               | Modified column to be<br>defined as a NUMBER (7, 3)   |
| MET_CONDITION      | MIXING_HEIGHT          | Modified column to be<br>defined as a NUMBER (7, 2)   |
| MET_CONDITION      | HUMIDITY               | Modified column to be<br>defined as a NUMBER (6, 3)   |
| MET_CONDITION      | CLOUD_HEIGHT           | Modified column to be<br>defined as a NUMBER (7, 2)   |
| MET_CONDITION      | TEMPERATURE            | Modified column to be<br>defined as a NUMBER (9, 5)   |
| MET_CONDITION      | PRESSURE               | Modified column to be<br>defined as a NUMBER (10, 6)  |
| MET_CONDITION      | CLOUD_COVER            | Modified column to be<br>defined as a NUMBER (4, 2)   |
| MET_CONDITION      | SOLAR_RAD              | Modified column to be<br>defined as a NUMBER (9, 3)   |
| MET_CONDITION      | WIND_SIGMA             | Modified column to be<br>defined as a NUMBER (11, 4)  |

| Table Name         | Column Name/Definition | Description of Change  |
|--------------------|------------------------|--|
| MODEL_ATTR         |                        | Created table; see description in Appendix C                           |
| MODEL_DEF          |                        | Created table; see description in Appendix C                           |
| NAVIGATOR          |                        | Created table; see description in Appendix C                           |
| NAVIGATOR_ITEM     |                        | Created table; see description in Appendix C                           |
| PA_DECISION_MATRIX |                        | Dropped table from database  |
| PARPAD_DETAIL      |                        | Created table; see description in Appendix C                           |
| PARPAD_HEADER      |                        | Created table; see description in Appendix C                           |
| POTENTIAL_ACCIDENT | EOC_NAME               | Modified column to be NOT NULL   |
| POTENTIAL_THREAT   |                        | Dropped table from database  |
| RESOURCE_OWNER     | RESOURCE_NOTES         | Increased field length to 4000   |
| SHARED_REPORT      |                        | Created table; see description in Appendix C                           |
| SYSTEM_MODE        |                        | Dropped table from database  |
| SYSTEM_PHASE       |                        | Removed all columns from table except PHASE_NAME and PHASE_DESCRIPTION |
| SYSTEM_STAGE       |                        | Removed all columns from table except STAGE_NAME and STAGE_DESCRIPTION |
| THREAT_AREA        |                        | Created table; see description in Appendix C                           |
| UDS_COLUMN         | TITLE                  | Column Changed to VARCHAR2 (60)  |
| UDS_ROW            | IN_SHARE_KEY_ROW       | Dropped index  |
| USER_MODEL_CASE    |                        | Dropped table from database  |
| USER_PREFERENCE    | PREFERENCE_TEXT        | Increased size to 4000 bytes   |
| VIEWMARK_DATA      |                        | Dropped table from database  |
| VIEWMARK_DEF       | VIEWMARK_DEF           | Added column to table. Defined as CLOB                                 |
| WEDGE_POLYGON      |                        | Dropped table from database  |
| WORK_PLAN          | WP_STACT_DATE          | Dropped column from table  |
| WORK_PLAN          | WP_END_DATE            | Dropped column from table  |

| Table Name            | Column Name/Definition                              | Description of Change   |
|-----------------------|---|---|
| WORK_PLAN             | WP_TEAM_COUNT                                       | Dropped column from table   |
| WORK_PLAN_ACT         | HAZARD_CASE_ID                                      | Added column to table.<br>Defined as Number (9)                   |
| WORK_PLAN_ACT         | ZONE_RISK_GROUP_NAME                                | Dropped column from table   |
| WORK_PLAN_ACTIVITY    | ACTIVITY_CODE                                       | Dropped column from table   |
| WORK_PLAN_ACTIVITY    | D2_CASE_IC  | Dropped column from table   |
| WORK_PLAN_ACTIVITY    | LOCAL_ID_CODE                                       | Dropped column from table   |
| WORK_PLAN_ACTIVITY    | PAD_ID  | Dropped column from table   |
| WORK_PLAN_ACTIVITY    | THREAT_ID   | Dropped column from table   |
| WORK_PLAN_ACTIVITY    | WPA_ACTIVITY  | Dropped column from table   |
| WORK_PLAN_ACTIVITY    | WPA_AGENT_CODE                                      | Dropped column from table   |
| WORK_PLAN_ACTIVITY    | WPA_CANCEL_FLAG                                     | Dropped column from table   |
| WORK_PLAN_ACTIVITY    | WPA_MUNITION_TYPE                                   | Dropped column from table   |
| WORK_PLAN_ACTIVITY    | WPA_MUNITION_IN_ACT                                 | Dropped column from table   |
| WORK_PLAN_ACTIVITY    | WPA_NOTE  | Dropped column from table   |
| WORK_PLAN_ACTIVITY    | WPA_LOCATION  | Dropped column from table   |
| ZONE_CLUSTER_IN_GROUP | RISK_AREA_ID, EXERCISE_NUM,<br>ZONE_RISK_GROUP_NAME | Reworked the Primary Key<br>constraint to include<br>RISK_AREA_ID |
| ZONE_IN_GROUP         | RISK_AREA_ID, EXERCISE_NUM,<br>ZONE_RISK_GROUP_NAME | Reworked the Primary Key<br>constraint to include<br>RISK_AREA_ID |
| ZONE_RISK_GROUP       | RISK_AREA_ID, EXERCISE_NUM,<br>ZONE_RISK_GROUP_NAME | Reworked the Primary Key<br>constraint to include<br>RISK_AREA_ID |
| ZONE_RISK_GROUP       | ZONE_GROUP_TYPE                                     | Added column to table.<br>Defined as VARCHAR2 (20)<br>NOT NULL    |