Department of Energy
Carlsbad Area Office
P.O. Box 3090
Carlsbad, New Mexico 88221

ENTERED

November 12, 1996

RECEIVED
NOV 15 1996

Mr. Steve Zappe
New Mexico Environment Department
P. O. Box 26110
Santa Fe, NM. 87502

Dear Mr. Zappe:

Enclosed is an uncontrolled copy of the Software System Design Description for the WIPP Waste Information System, CAO 96-1111, as you requested. The document provides detailed information on the system.

If you have any questions, please feel free to contact Mike Brown of my staff at (505) 234-7476.

Sincerely,

Amber Clay, for

Don Watkins
Manager
National TRU Program

Enclosure

cc w/o enclosure:
Craig Snider, CAO
Pat Kilgore, CAO
C&C File

961105

WIPP Library

Waste Isolation Pilot Plant Waste Information System

Software Design Description

CAO-96-1111
REVISION 0

October 1996

RECEIVED
NOV 15 1996

Table of Contents
CAO-96-1111 Revision 0

1. INTRODUCTION 1

1.1 Purpose 1

1.2 Scope 1

1.3 Overview 2

1.4 Acronyms and Definitions 2
1.4.1 Acronyms 2
1.4.2 Definitions 3

2. DECOMPOSITION DESCRIPTION 6

2.1 Characterization 7
2.1.1 Purpose 7
2.1.2 Function 7
2.1.3 Subordinates 8

2.2 Certification 11
2.2.1 Purpose 11
2.2.2 Function 11
2.2.3 Subordinates 12

2.3 Shipping 15
2.3.1 Purpose 15
2.3.2 Function 15
2.3.3 Subordinates 16

2.4 Disposal Inventory 20
2.4.1 Purpose 20
2.4.2 Function 20
2.4.3 Subordinates 21

2.5 Data Administration 23
2.5.1 Purpose 23
2.5.2 Function 23
2.5.3 Subordinates 24

2.6 Decay Analysis 26
2.6.1 Purpose 26
2.6.2 Function 26
2.6.3 Subordinates 26

2.7 Regulatory Reporting 27
2.7.1 Purpose 27
2.7.2 Function 27
2.7.3 Subordinates 27

3. DEPENDENCY DESCRIPTION 28

3.1 WWIS 28
3.1.1 Purpose 28
3.1.2 Dependencies 28

3.2 Characterization 28
3.2.1 Purpose 28
3.2.2 Dependencies 28

3.3 Certification 29
3.3.1 Purpose 29
3.3.2 Dependencies 29

3.4 Shipment 29
3.4.1 Purpose 29
3.4.2 Dependencies 29

3.5 Disposal 29
3.5.1 Purpose 29
3.5.2 Dependencies 29

4. INTERFACE DESCRIPTION 30

4.1 Characterization 30
4.1.1 Function 30
4.1.2 Interface 30

4.2 Certification 31
4.2.1 Function 31
4.2.2 Interface 31

4.3 Shipment 31
4.3.1 Function 31
4.3.2 Interface 31

4.4 Disposal 32
4.4.1 Function 32
4.4.2 Interface 32

4.5 Data Administration 32
4.5.1 Function 32
4.5.2 Interface 32

4.6 Decay Analysis 33
4.6.1 Function 33
4.6.2 Interface 33

5. DETAIL DESCRIPTION 34

5.1 Characterization 34
5.1.1 Processing 34
5.1.2 Data 37

5.2 Certification **39**
5.2.1 Processing 39
5.2.2 Data 44

5.3 Shipment **46**
5.3.1 Processing 46
5.3.2 Data 48

5.4 Disposal **49**
5.4.1 Processing 49
5.4.2 Data 50

6. REFERENCES **51**

APPENDIX A REQUIREMENTS MATRIX **A-1**

APPENDIX B WWIS DATA DICTIONARY **B-1**

APPENDIX C ENTITY RELATIONSHIP DIAGRAMS **C-1**

APPENDIX D DATA STRUCTURES **D-1**

APPENDIX E MODULE DEFINITION **E-1**

Table of Figures

FIGURE 1 SOFTWARE LIFE CYCLE 1
FIGURE 2 WWIS DESIGN ENTITIES 6
FIGURE 3 CHARACTERIZATION FUNCTION HIERARCHY 7
FIGURE 4 CHARACTERIZATION DATA ELECTRONIC TRANSFER FUNCTION HIERARCHY 8
FIGURE 5 CHARACTERIZATION DATA INPUT FUNCTION HIERARCHY 9
FIGURE 6 CHARACTERIZATION ACCEPTANCE / REJECTION FUNCTION HIERARCHY 9
FIGURE 7 CHARACTERIZATION REPORTS FUNCTION HIERARCHY 10
FIGURE 8 CERTIFICATION FUNCTION HIERARCHY 11
FIGURE 9 CERTIFICATION DATA ELECTRONIC TRANSFER FUNCTION HIERARCHY 12
FIGURE 10 CERTIFICATION DATA INPUT FUNCTION HIERARCHY 13
FIGURE 11 CERTIFICATION ACCEPTANCE / REJECTION FUNCTION HIERARCHY 14
FIGURE 12 CERTIFICATION REPORTS FUNCTION HIERARCHY 14
FIGURE 13 SHIPMENT FUNCTION HIERARCHY 15
FIGURE 14 SHIPPING DATA ELECTRONIC TRANSFER FUNCTION HIERARCHY 16
FIGURE 15 SHIPPING DATA INPUT FUNCTION HIERARCHY 17
FIGURE 16 SHIPPING ACCEPTANCE / REJECTION FUNCTION HIERARCHY 18
FIGURE 17 SHIPPING RECEIPT FUNCTION HIERARCHY 18
FIGURE 18 SHIPPING REPORTS FUNCTION HIERARCHY 19
FIGURE 19 DISPOSAL INVENTORY FUNCTION HIERARCHY 20
FIGURE 20 INVENTORY INPUT FUNCTION HIERARCHY 21
FIGURE 21 INVENTORY REPORTS FUNCTION HIERARCHY 22
FIGURE 22 DATA ADMINISTRATION FUNCTION HIERARCHY 23
FIGURE 23 DATA ADMINISTRATION INPUT FUNCTION HIERARCHY 24
FIGURE 24 ADMINISTRATION REPORTS FUNCTION HIERARCHY 25
FIGURE 25 DECAY ANALYSIS FUNCTION HIERARCHY 26
FIGURE 26 REGULATORY REPORTING FUNCTION HIERARCHY 27

1. INTRODUCTION

1.1 Purpose

The Waste Isolation Pilot Plant Waste Information System (WWIS) Software Design Description (SDD) is the primary medium for communicating software design information about the system's application software. The SDD is a translation of requirements into a description of software structure, components, interfaces, and data necessary for implementation. This document will be used by the development team as the blueprint for implementation in conjunction with the *WWIS Software Requirements Specification,*[1] which defines design requirements. This document will be developed in the design phase and used throughout the WWIS software life cycle as depicted in Figure 1.

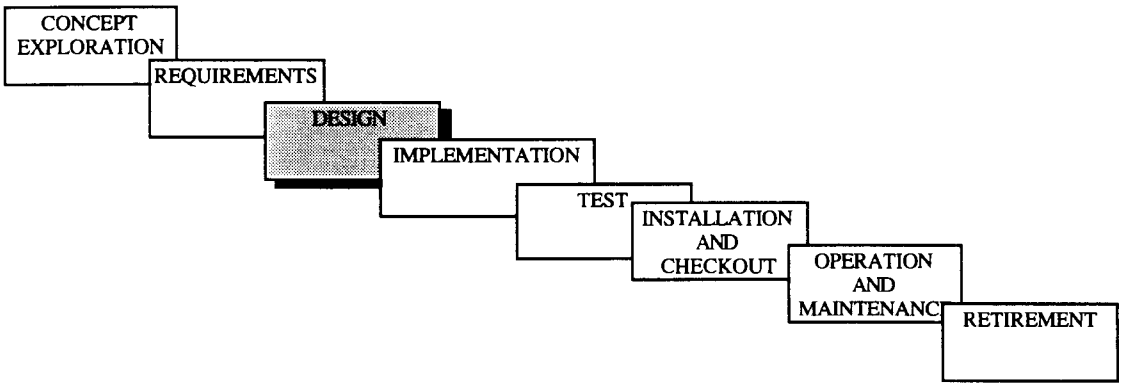


Figure 1 Software life cycle

1.2 Scope

This SDD details the design of the application software for the WWIS project. The WWIS is designed to gather, store, and process information pertaining to transuranic (TRU) waste destined for or disposed at the Waste Isolation Pilot Plant (WIPP). This document describes the design of these tools used for managing, evaluating, and reporting this TRU waste information.

1.3 Overview

This document conforms with the *American National Standards Institute/Institute of Electrical and Electronics Engineers (ANSI/IEEE) Recommended Practice for Software Design Descriptions*.[2] It was developed in accordance to quality standards identified in the *WWIS Software Quality Assurance Plan.*[6]

Section 1 provides the background information of the document, while the later sections provide specific design information needed to satisfy requirements. Specifically, Section 2 describes how the system has been structured and the purpose and function of each entity. Section 3 specifies relationships among these entities. Section 4 details external and internal interfaces and Section 5 provides internal details of each design entity.

1.4 Acronyms and Definitions

This section lists the acronyms and defines the terms necessary for accurate interpretation of this plan. The acronyms and definitions conform to the common usage by customer organizations and the *ANSI/IEEE Standard Glossary of Software Engineering Terminology*.[3]

1.4.1 Acronyms

ANSI	American National Standards Institute
CAO	Carlsbad Area Office
CFR	Code of Federal Regulations
CH	Contact handled
DOE	Department of Energy
DOT	Department of Transportation
EPA	Environmental Protection Agency
ERD	Entity Relationship Diagram
FGE	Fissile Gram Equivalents
ICV	Inner Containment Vessel
IDC	Item Description Code
IEEE	Institute of Electrical and Electronics Engineers
INEL	Idaho National Engineering Laboratory
MTRU	Mixed Transuranic
MWIR	Mixed Waste Inventory Report
OCA	Outer containment assembly
ORNL	Oak Ridge National Laboratory
PCB	Polychlorinated biphenyl
PE-Ci	Plutonium Equivalent Curie
PU	Plutonium
QAPP	Quality Assurance Program Plan
RH	Remote handled
SAR	Safety Analysis Report
SDD	Software Design Description

SRS	Software Requirements Specification
SWB	Standard waste box
TCP/IP	Transmission Control Protocol / Internet Protocol
TDOP	Ten Drum Overpack
TIC	Tentatively Identified Compound
TRAMPAC	TRUPACT-II Authorized Methods for Payload Control
TRU	transuranic
TRUCON	TRUPACT-II Content Codes Document
TRUPACT-II	Transuranic Package Transporter, Version II
VOC	Volatile organic compound
WAC	Waste Acceptance Criteria
WIPP	Waste Isolation Pilot Plant
WWIS	WIPP Waste Information System

1.4.2 Definitions

7-Pack	Seven drums banded together to make an assembly.
application software	Developed or nonprocured software.
assay	Measures the fissile mass, alpha activity, thermal power, and total TRU specific activity of the waste container using the net weight and the content code of a waste container.
assembly	Compatible waste containers placed into a standard waste box or 7-pack, that is intended to be handled and emplaced as a single unit.
certified waste	Waste packages that have been verified to meet the criteria of the *Waste Acceptance Criteria for the Waste Isolation Pilot Plant.*[4]
code	A character or bit pattern that is assigned a particular meaning; for example, a status code.[3]
container	A canister, drum, standard waste box, or ten drum overpack for containing waste. An empty container is also called a dunnage.
data	A representation of facts, concepts, or instructions in a manner suitable for communication, interpretation, or processing by humans or by automatic means.[3]
data dictionary	A conceptual representation of the data that presents descriptions and relationships of the data, independent of software/hardware performance considerations. The data dictionary is a listing or table that contains elements of the database, precise descriptions of these elements, formats, whether it is a key value, possible range boundaries and/or acceptable values, etc. The data dictionary contains information on a particular data field for all data within the database.[4]

data package	Required data fields pertaining to a unique container identification.
data structures	A physical or logical relationship among data elements, designed to support specific data manipulation functions.[3]
database	A collection of interrelated data stored together in one or more computerized files.[3]
database structures	Data structures within the database software.
design entity	A design element (component) structurally and functionally distinct from other elements and separately named and referenced.[2]
drum	A container used for containing waste (i.e., 55-gal, 30-gal, or 83-gal drums).
dunnage	An empty drum or standard waste box used to complete a payload assembly for a Waste Isolation Pilot Plant (WIPP) shipment.
entity attribute	Named characteristic or property of a design entity.[2]
procured software	Commercial off-the-shelf software, such as a database or word processing application.
RADAC	Decay analysis software available from ORNL.
shipment	One to three TRUPACT-IIs or a 72B cask.
system software	An application for the operating system and procured software.
site certification official	Designated individual responsible for documenting that all waste packages prepared for disposal at WIPP meet all specified criteria.
transportation certification official	Designated individual responsible for all transportation waste package requirements and records, and assurance that all payload compliance requirements are met before the transportation package may be released for transport.
transuranic waste (TRU waste)	Without regard to source or form, waste that is contaminated with alpha-emitting transuranic radionuclides with half-lives greater than 20 years and concentrations greater than 100 nanocuries per gram at the time of assay.[5]

TRUPACT-II	An NRC certified Type B transportation packaging used for transportation of contact-handled transuranic wastes.[4]
validation	An activity that demonstrates or confirms that a process, item, data set, or service satisfies the requirements defined by the user.[4]
verification	The act of reviewing, inspecting, testing, checking, auditing, or otherwise determining and documenting whether items, processes, services, or documents conform to specified requirements.[4]
	The act of authenticating or formally asserting the truth that a process, item, data set, or service is, in fact, that which is claimed. Data verification is the process used to confirm that all review and validation procedures have been completed.[4]
Waste Acceptance Criteria (WAC)	The criteria used to determine if waste packages are acceptable for receipt at the Waste Isolation Pilot Plant (WIPP).[4]
waste container	A waste container is a container and its waste contents.
WIPP-acceptable	A waste container meeting the WAC criteria for receipt and disposal at the Waste Isolation Pilot Plant (WIPP).

2. DECOMPOSITION DESCRIPTION

This section describes how the system has been structured and the purpose and function of each entity. The decomposition description records the division of the software system into design entities. The development team identifies these design entities for such purposes as determining which entity is responsible for performing specific functions and tracing requirements to design entities. Appendix A Requirements Matrix contains a matrix of these design requirements.

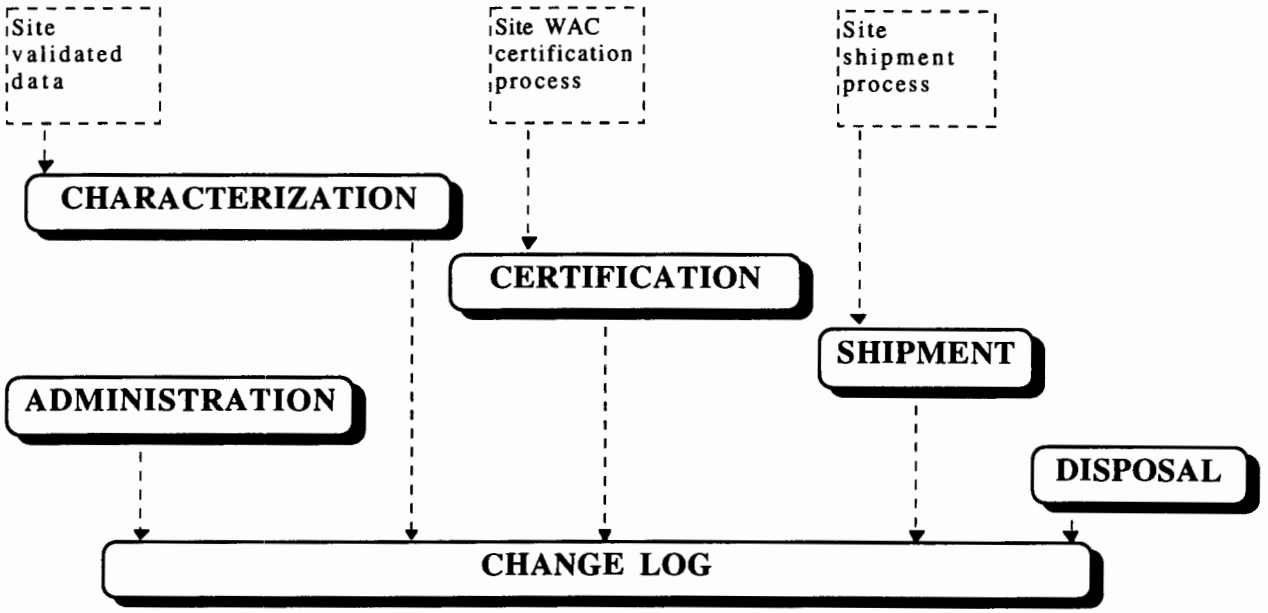


Figure 2 WWIS Design Entities

The WWIS will build upon the information provided from TRU waste systems in the DOE complex. Figure 2 depicts the processes listed within the WWIS SRS, where the product functions and specific functional requirements are described. These processes are the design entities, and design of these processes is described in the following sections. Relationships between these entities are detailed in Section 3.

2.1 Characterization

2.1.1 Purpose

Waste characterization data will be collected to support regulatory compliance programs associated with the WIPP facility. These regulatory compliance programs include an assessment and certification of the WIPP repository performance, the preparation of permit applications and a variance petition.

2.1.2 Function

Waste characterization data are collected and stored in site-specific information systems. Once the sites have collected and validated their data the report can be transmitted to the WWIS to be used for planning, to support regulatory reports, and waste stream profile forms.

This design function hierarchy allows for transmittal, verification, and reporting of characterization data. The module allows WWIS personnel to accept shipper/generator characterization data and provides characterization reports.

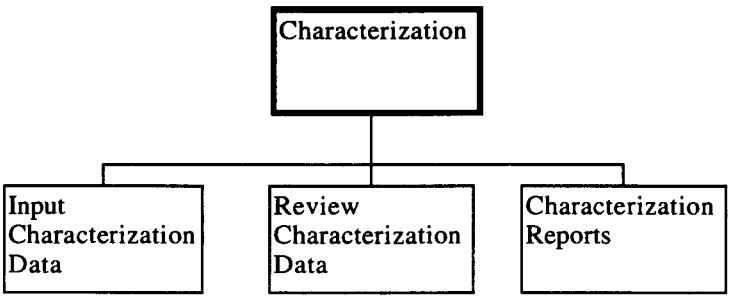


Figure 3 Characterization Function Hierarchy

2.1.3 Subordinates

2.1.3.1 Transmittal

The shipper/generator is granted access to the WWIS to electronically transfer characterization data from his/her system to WWIS.

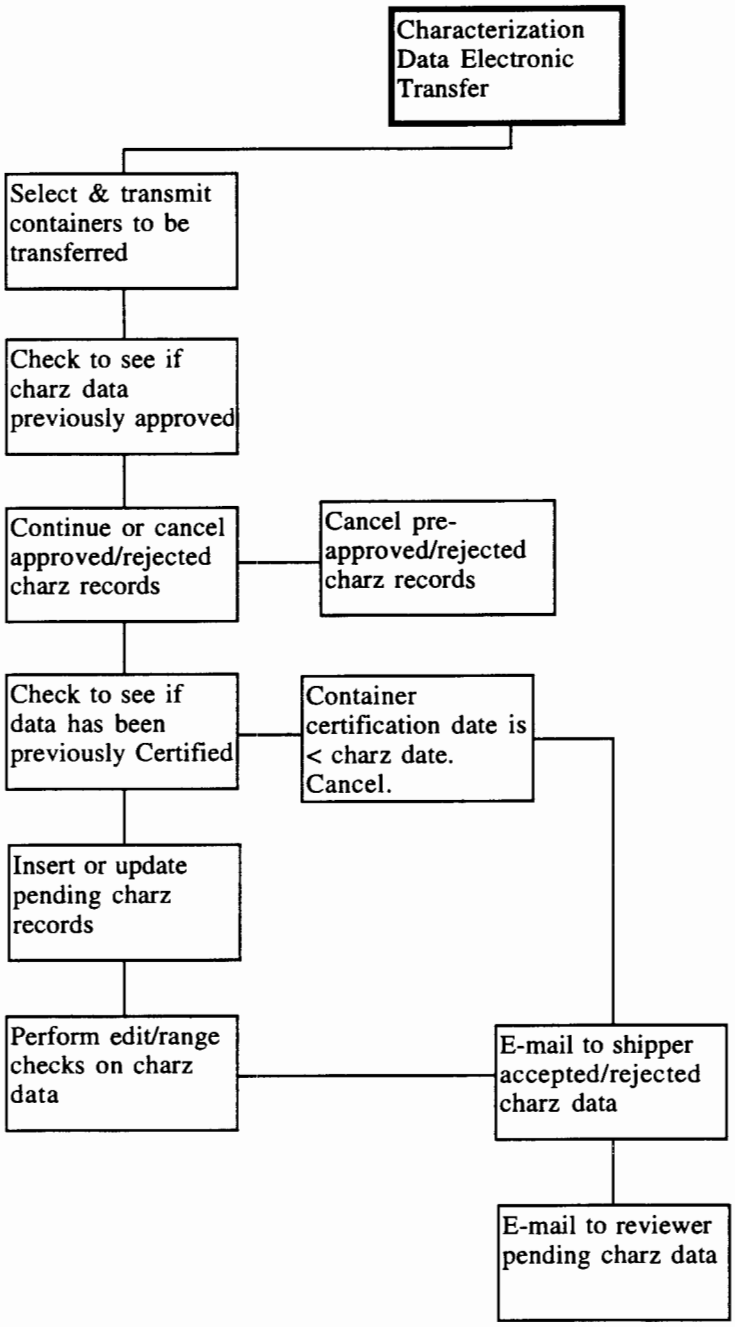


Figure 4 Characterization Data Electronic Transfer Function Hierarchy

2.1.3.2 Data Input

Selected sites will be granted access to the WWIS to input their data. Edit and range checks will be interactive.

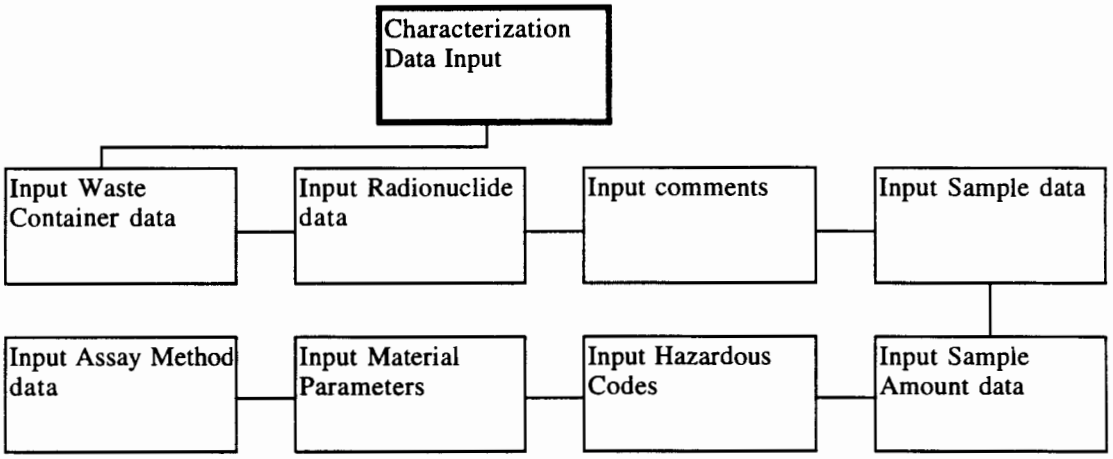


Figure 5 Characterization Data Input Function Hierarchy

The WWIS system performs edit and range checks on the characterization data and identifies all errors by package identification number. The shipper/generator and WWIS personnel are allowed to view and/or print error reports. The shipper/generator access is restricted to their own data.

2.1.3.3 Acceptance / Rejection

Once all verifications have been satisfied, the data package is ready for WIPP personnel to accept the characterized data. Upon review of data by knowledgeable WIPP personnel, if deemed acceptable, an acknowledgment will be sent to the shipper/generator and the User Id of the WIPP person who accepted the data will be stored. An acceptance report will be generated by the WWIS system. Change Log information will be tracked after acceptance of the data by WIPP.

If the data package is deemed unacceptable, a reason for the rejection must be supplied by the WIPP person who rejected it and a notification sent to the shipper/generator. A rejection report will be generated by the WWIS system.

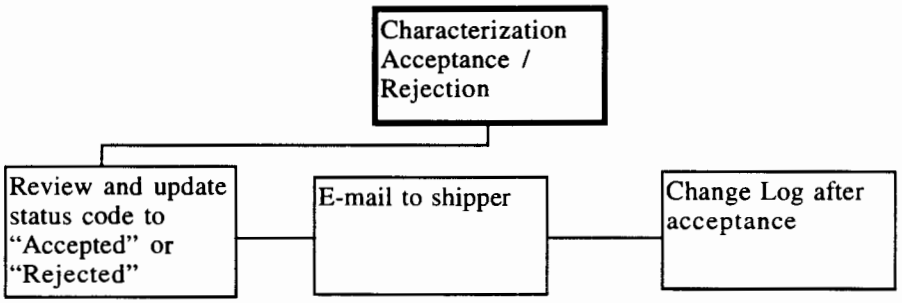


Figure 6 Characterization Acceptance / Rejection Function Hierarchy

2.1.3.4 Reports

All reports will be made available to the shipper/generator and WIPP personnel to either view or print. The shipper/generator access is restricted to their own data. Following are a list of available reports.

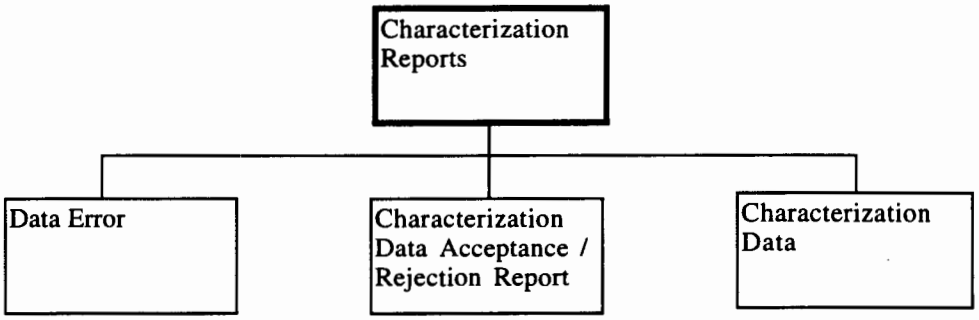


Figure 7 Characterization Reports Function Hierarchy

2.1.3.4.1 Data Error Report

Reports to WWIS and the generator of any data not accepted by the database because of edit and/or limit violations. This report is to be generated automatically by the database as the erroneous data are supplied to the WWIS to facilitate early resolution of any potential data errors. This report will list the waste container Id, verification, and/or range check errors for each data package that did not meet characterization checks.

2.1.3.4.2 Characterization Data Acceptance/Rejection

This report will list the waste container Id and user Id of WIPP personnel. The reason the data was rejected will also be supplied when appropriate.

2.1.3.4.3 Characterization Data Report

This report is to be generated by waste stream and will be used by WIPP in the Waste Stream Profile Form review and approval process. The selection criteria for this report will be the waste stream Id and the shipper site Id. This report is to be generated by WIPP personnel as required to provide input to the Waste Stream Profile approval process. This report will list waste generator/storage site, waste matrix code group, TRUCON code, IDC code, and all analyte data to support Waste Stream Profile in tabular format.

2.2 Certification

2.2.1 Purpose

The criteria and requirements of the Waste Acceptance Criteria (WAC) must be met for contact-handled and remote-handled TRU waste destined for the WIPP. Sites are responsible for the preparation of accurate data packages.

2.2.2 Function

This function allows for transmittal and verification of WAC data. The module allows WIPP personnel to accept certified WAC data and provides verification reports.

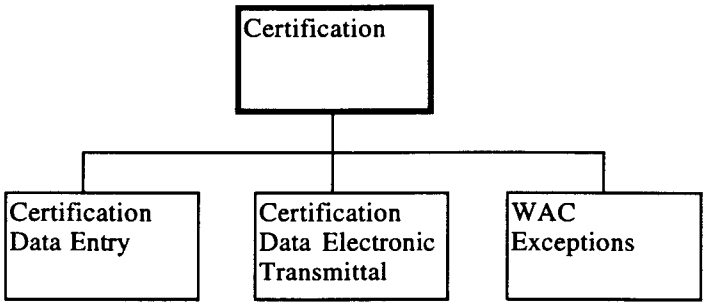


Figure 8 Certification Function Hierarchy

2.2.3 Subordinates

2.2.3.1 Transmittal

The shipper/generator is granted access to the WWIS system to electronically transfer WAC data from his/her system to WWIS. Data transferred from the shipper/generator must be formatted to match the data fields and format of the WWIS system.

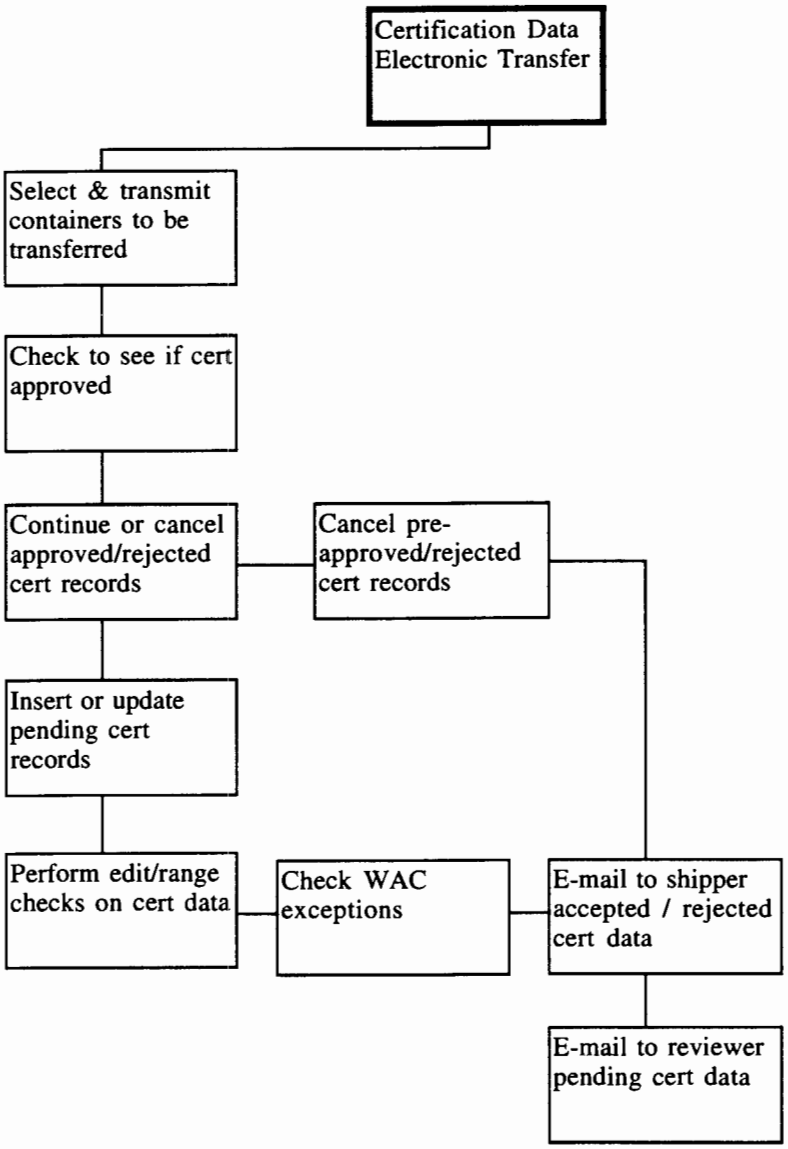


Figure 9 Certification Data Electronic Transfer Function Hierarchy

2.2.3.2 Data Input

Selected sites will be granted access to the WWIS to input their data. Edit and range checks will be interactive.

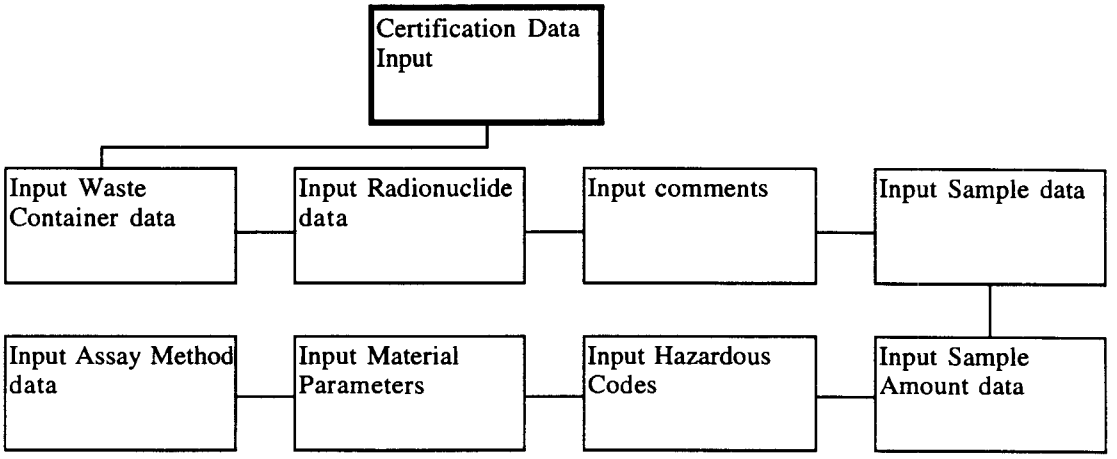


Figure 10 Certification Data Input Function Hierarchy

The WWIS system performs edit and range checks on WAC data and identifies all errors by package identification number. The shipper/generator and WIPP personnel are allowed to view and/or print error reports. The shipper/generator access is restricted to their own data.

If a data package has a WAC exception number assigned to it, then the values in the WAC exception table, associated with the WAC exception number, are used during verification.

2.2.3.3 WAC Exceptions

A shipper/generator may request an exception to a range or edit check limit. If the exception is granted, the data administrator must first update the WAC exception table with the WAC exception number, package Id, and the new limits for the field allowed the exception. Then the shipper/generator will update the container package data to include the WAC exception number.

2.2.3.4 Acceptance / Rejection of Certification Data

Once all verifications have been satisfied, the data package is ready for acceptance by WIPP personnel. Upon review of data by knowledgeable WIPP personnel, if deemed acceptable, an acknowledgment will be sent to the shipper/generator and the User Id of the WIPP person who accepted the data package will be stored. An acceptance report will be generated by the WWIS system. Change Log information will be tracked after initial acceptance of the data by WIPP.

If the data package is deemed unacceptable, a reason for the rejection must be supplied by the WIPP person who rejected it and a notification sent to the shipper/generator. A rejection report will be generated by the WWIS system.

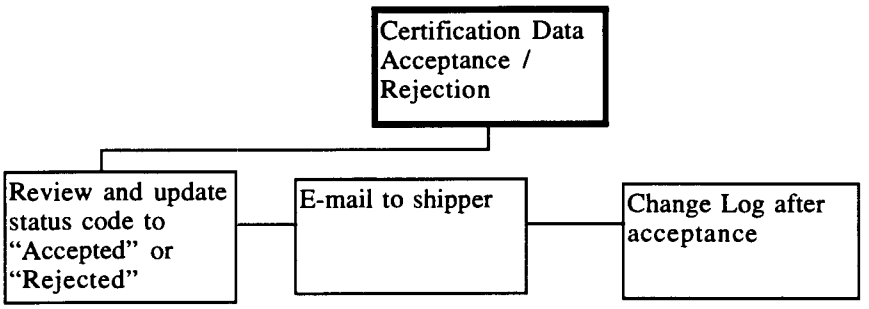


Figure 11 Certification Acceptance / Rejection Function Hierarchy

2.2.3.5 Reports

All reports will be made available to the shipper/generator and WIPP personnel to either view or print. The shipper/generator access is restricted to their own data. Following are a list of available reports.

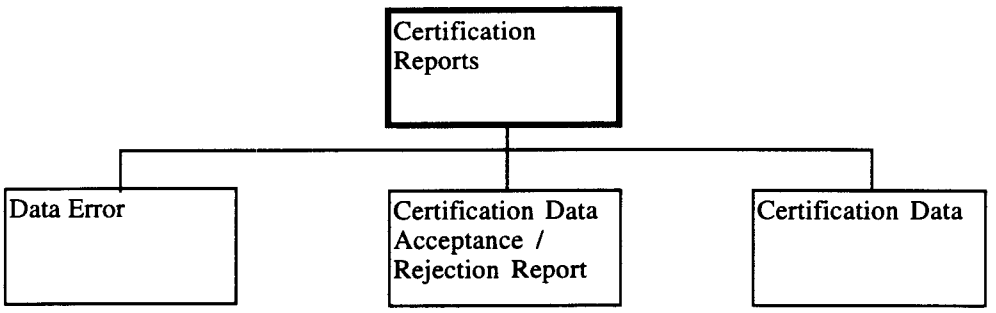


Figure 12 Certification Reports Function Hierarchy

2.2.3.5.1 Data Error Report

Reports to WWIS and the generator of any data not accepted by the database because of edit and/or limit violations. This report is to be generated automatically by the database as the erroneous data are supplied to the WWIS to facilitate early resolution of any potential data errors. This report will list the waste container Id, verification, and/or range check errors for each waste container that did not meet acceptance criteria.

2.2.3.5.2 Certification Data Acceptance/Rejection

This report will list the waste container Id and user Id of WIPP personnel. The reason the data was rejected will also be supplied when appropriate.

2.2.3.5.3 Certification Data Report

This report is to contain the data necessary for WIPP personnel to make decisions regarding the acceptance of the waste at WIPP. The selection criteria for this report will be the individual container Ids of the containers being considered for acceptance. This report is to be generated by WIPP personnel as required to support waste acceptance decisions. This report will list certification data such as

waste container to include container type, container weight, contact dose rate, certification date, PE curie, fissile gram equivalent, assay date, assay method, radionuclides and quantities, handling code, waste weight, surface contamination, PCB concentration, waste stream profile, and headspace gas data (sample date, analysis date, analytes, concentration and method).

2.3 Shipping

2.3.1 Purpose

Sites are responsible for the preparation of accurate data packages and assurance that the data packages match the payload shipped prior to shipping contact-handled and remote-handled TRU waste forms to the WIPP.

2.3.2 Function

This function allows for transmittal and verification of shipment data. All modifications will be tracked in a Change Log. The module allows the shipper/generator to flag a shipment and its contents as complete, and WIPP personnel to accept or reject shipment data. It also provides verification reports.

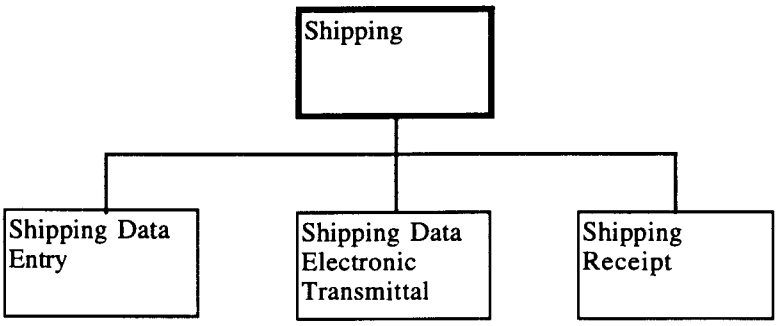


Figure 13 Shipment Function Hierarchy

2.3.3 Subordinates

2.3.3.1 Transmittal

The shipper is granted access to the WWIS system to electronically transfer shipment data from his/her system to WWIS. Data transferred from the shipper must be formatted to match the data fields and format of the WWIS system.

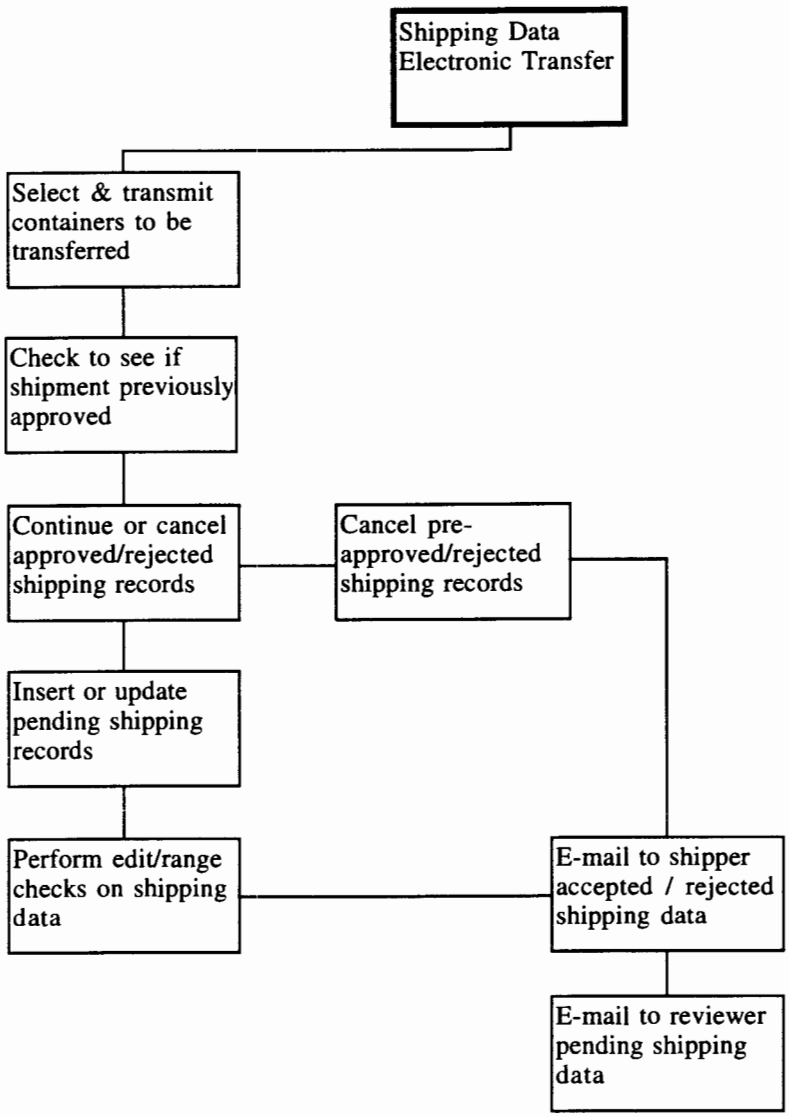


Figure 14 Shipping Data Electronic Transfer Function Hierarchy

2.3.3.2 Data Input

Selected sites will be granted access to the WWIS to input their data. Edit and range checks will be interactive.

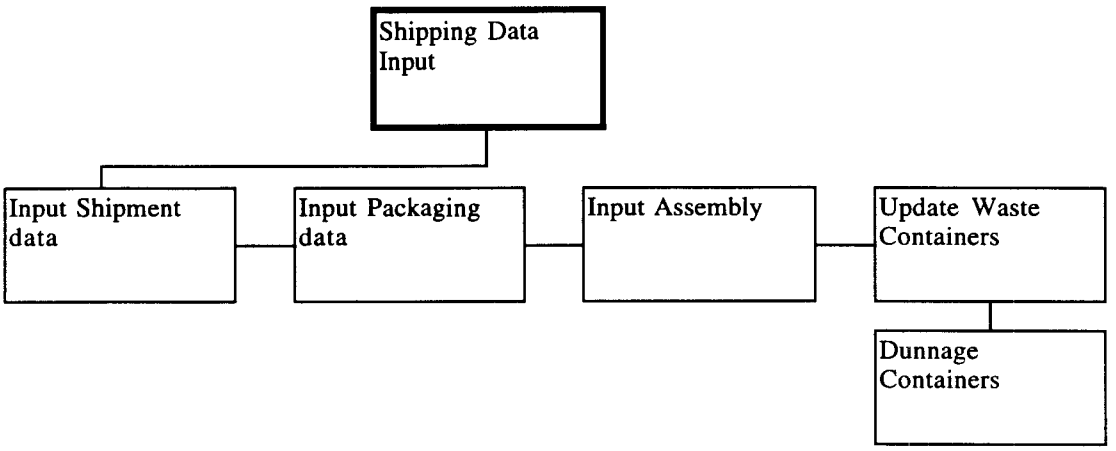


Figure 15 Shipping Data Input Function Hierarchy

The WWIS system performs edit and range checks on all shipment data and identifies all errors by shipment number and package identification number. The shipper and WIPP personnel will be allowed to view and/or print error reports. The shipper/generator access is restricted to their own data.

After the shipment has passed all edit and range checks, the shipper will receive a message to that effect. At that time the shipper will not be allowed to update the shipment or data packages further with the exception of Shipment date, Manifest number, and ICV closure date.

2.3.3.3 Acceptance of Shipment

Once all validations and range checks have been satisfied, the shipment is ready for WIPP personnel to accept. Upon review of data by knowledgeable WIPP personnel, if deemed acceptable, an acknowledgment will be sent to the shipper and the User Id of the WIPP person who accepted the shipment will be stored. An acceptance report will be generated by the WWIS system. Change Log information will be tracked after initial acceptance of the data by WIPP.

If the shipment is deemed unacceptable, a reason for the rejection must be supplied by the WIPP person who rejected it and a notification sent to the shipper. A rejection report will be generated by the WWIS system.

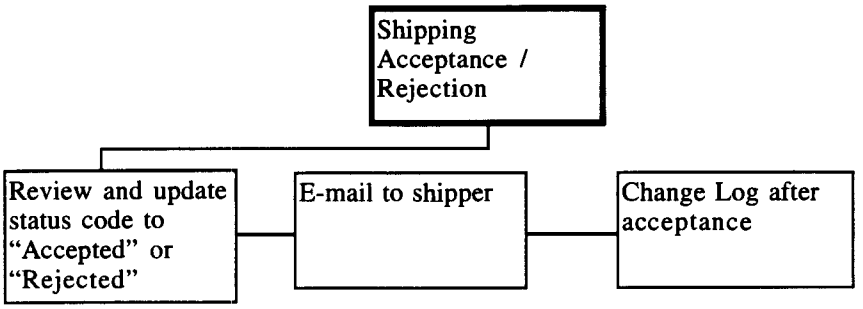


Figure 16 Shipping Acceptance / Rejection Function Hierarchy

2.3.3.4 Shipping Receipt

Upon arrival of the actual shipment WIPP personnel will ensure that all shipment data have been entered and will input the date the shipment was received.

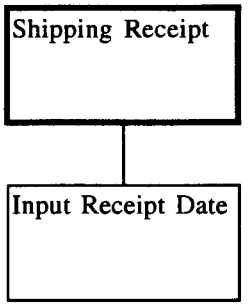


Figure 17 Shipping Receipt Function Hierarchy

2.3.3.5 Reports

All reports will be made available to the shipper/generator and WIPP personnel to either view or print. The shipper/generator access is restricted to their own data. Following is a list of available reports.

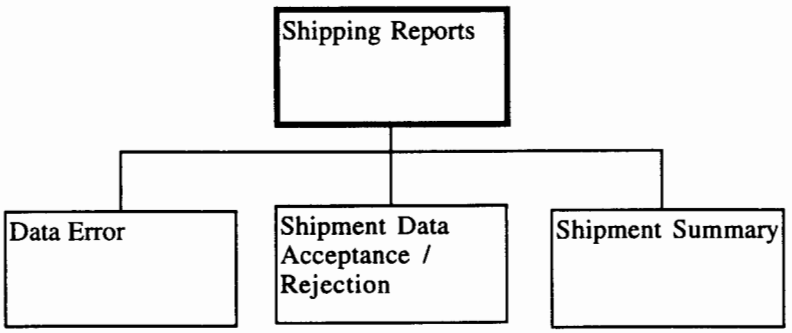


Figure 18 Shipping Reports Function Hierarchy

2.3.3.5.1 Data Error Report

Reports to WWIS and the generator of any data not accepted by the database because of edit and/or limit violations. These reports are to be generated automatically by the database as the erroneous data are supplied to the WWIS to facilitate early resolution of any potential data errors. This report will list the shipment number, package Id, assembly Id, verification, and/or range check errors for each shipment that did not meet acceptance criteria.

2.3.3.5.2 Shipment Data Acceptance/Rejection

This report will list the shipment number and user Id of WIPP personnel. The reason the data was rejected will also be supplied when appropriate.

2.3.3.5.3 Shipment Summary Report

This report is to include the data pertinent to waste receipt and waste handling operations at WIPP such as shipment number, TRUPACT number, assembly number, ICV closure date, shipment certification date, shipment date, the weight, surface dose rate, Id numbers of every container included in the shipment, and the Hazardous Waste Manifest Number, if assigned (applicable), to the shipments. This report will be generated automatically by the database after all of the shipment information has been received by the WWIS and the acceptance of the waste for shipment by WIPP has been completed. Some of the required information will not be known until just before shipment time, such as the number of the particular TRUPACT-II Package(s), the Hazardous Waste Manifest Number (if required), and the final shipping date. The report will be generated after the shipment is accepted by WIPP and when all of the final information has been input to the WWIS.

2.4 Disposal Inventory

2.4.1 Purpose

When the waste arrives at the WIPP facility it must be tracked to its final disposal location.

2.4.2 Function

This function allows for the input and maintenance of container locations in the WWIS system. Actual tracking will be performed using bar coding technology. This module will perform verification and range checks and produce validation reports.

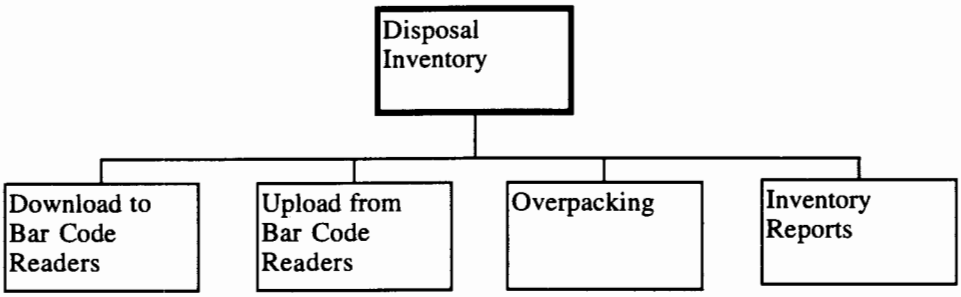


Figure 19 Disposal Inventory Function Hierarchy

2.4.3 Subordinates

2.4.3.1 Inventory Data Input and Maintenance

This module provides the capability to capture and upload waste container location data generated from hand-held computers/scanners.

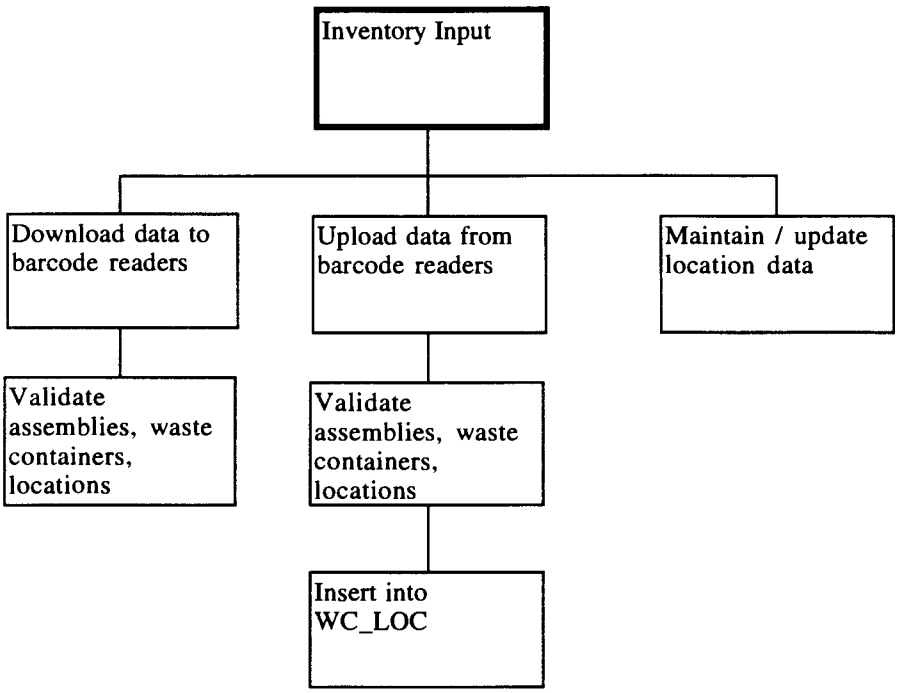


Figure 20 Inventory Input Function Hierarchy

2.4.3.2 Perform Validations

After data from the bar-code scanner have been uploaded, this function will validate assemblies, waste containers, and locations and store valid data in the WWIS database while rejecting invalid data.

2.4.3.3

This module provides the capability to track/modify container data to support overpacking of a waste container. This activity may be required when the original container is damaged or contaminated.

This module also provides the ability to print bar codes to support the overpacking.

2.4.3.4 Reports

All reports will be made available to view or print. The following reports will be available in the inventory module:

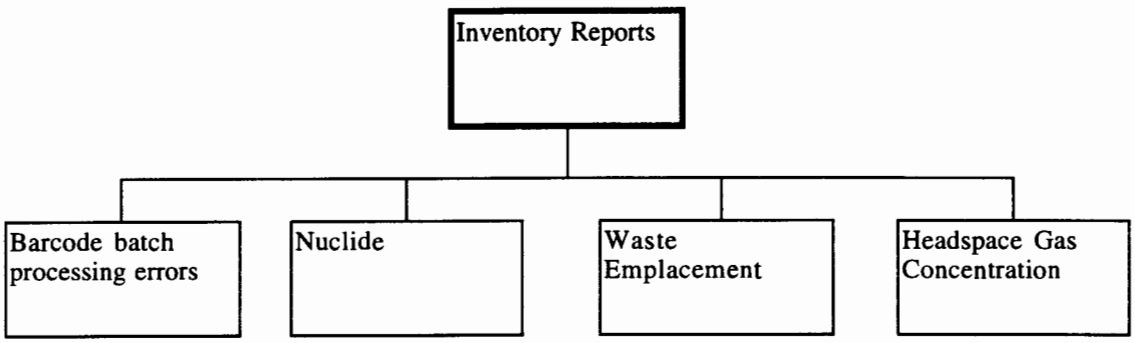


Figure 21 Inventory Reports Function Hierarchy

2.4.3.4.1 Bar Code Batch Processing Errors Report

This report will list by Container Id, errors that were encountered during the bar code batch processing.

2.4.3.4.2 Nuclide Report

This report is to list the radionuclides contained in the waste disposed at WIPP at the time that the report is generated and is to include the total activity of individual radionuclides as well as the total repository activity. This report is to be organized by waste type (CH/RH), using selection criteria to be established by the user at request time, such as all nuclides, all nuclides by shipper site during a specified period, or all actinides. This report will be an aid to the EPA reporting requirements and will be used to assist WIPP personnel in organizing data requests for input to the decay module as required. This report is to be generated by WIPP personnel as required.

2.4.3.4.3 Waste Emplacement Report

This report is to be generated on an emplacement period basis when all of the containers of the shipment have been emplaced and/or otherwise dispositioned and the data have been input to the WWIS from the bar code reader interface. The data are to be collected by container (for SWBs or TDOPs) or assembly number (for seven packs), and by TRUPACT-II number in the particular shipment. This information will be added to the Operational Log and retained at WIPP for the operational life of the facility.

2.4.3.4.4 Headspace Gas Concentration Report

This report is to contain the average concentration of all headspace analytes. The selection criteria will be by all containers in a room as defined by emplacement location. This report will be generated upon demand.

2.5 Data Administration

2.5.1 Purpose

Data Administration controls access to data, updates tables containing reference data used system-wide, produces reports and inserts change information in logs.

2.5.2 Function

This function allows for input and maintenance of reference tables used system-wide. It also produces reports from the reference tables.

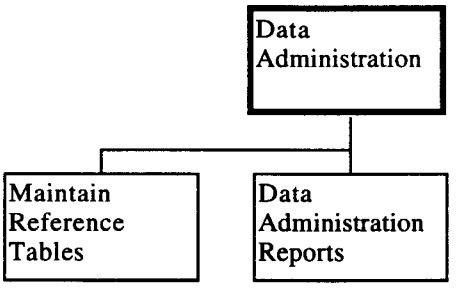


Figure 22 Data Administration Function Hierarchy

2.5.3 Subordinates

2.5.3.1 Reference Tables Input and Maintenance

Data Administration controls access to data, updates tables containing reference data and inserts change information in event logs.

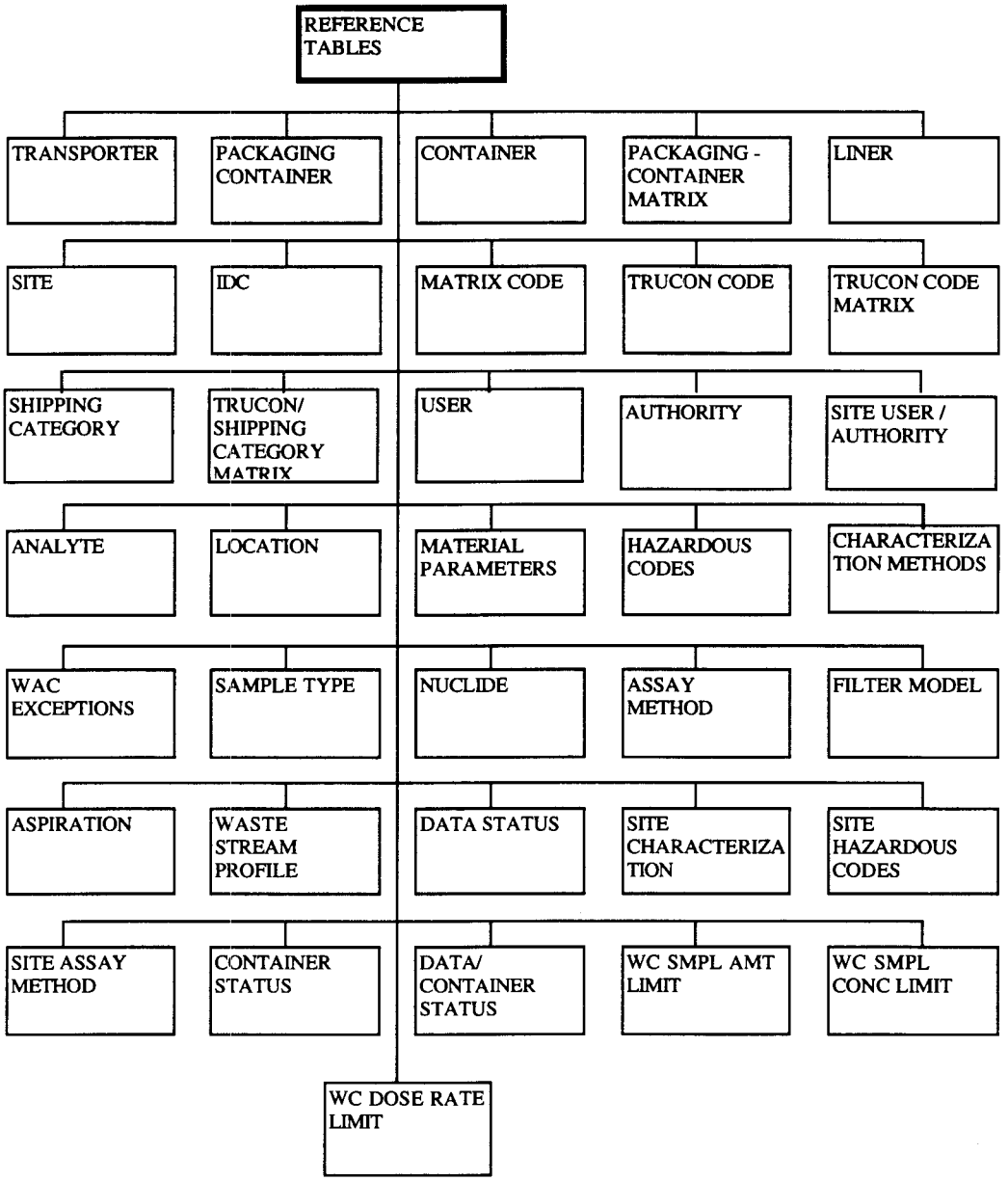


Figure 23 Data Administration Input Function Hierarchy

2.5.3.2 Reports

All reports will be made available to view or print. The following reports will be available in the data administration module:

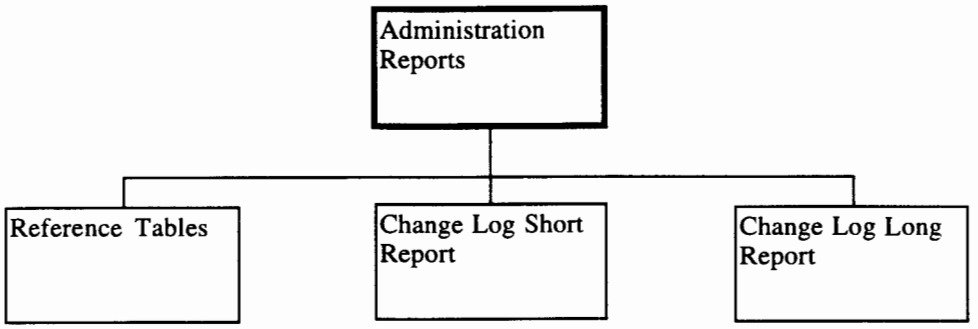


Figure 24 Administration Reports Function Hierarchy

2.5.3.2.1 Reference Tables Report

These reports will list the contents of selected Reference Tables.

2.5.3.2.2 Change Log Short Reports

This report will list information related to what type of changes and who made the data changes.

2.5.3.2.3 Change Log Long Reports

This report will list information related to what data was changed.

2.6 Decay Analysis

2.6.1 Purpose

The WWIS will have the capability of performing decay analysis of radioactive materials disposed at WIPP.

2.6.2 Function

This function downloads the selection criteria, pertinent nuclide information, and output file options to the RADAC software.

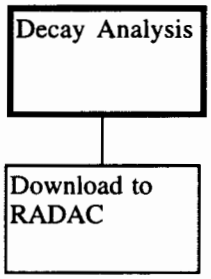


Figure 25 Decay Analysis Function Hierarchy

2.6.3 Subordinates

Not applicable.

2.7 Regulatory Reporting

2.7.1 Purpose

The WWIS will automatically generate reports that will be used by DOE/CAO programs.

2.7.2 Function

This function will produce the Nuclide Report and Biennial Reporting Input Report.

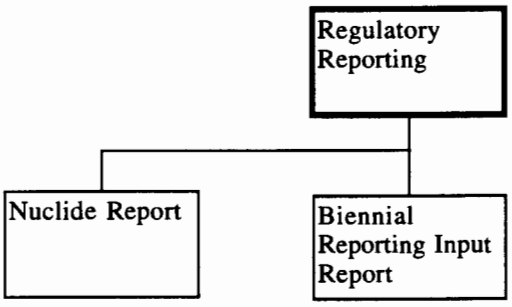


Figure 26 Regulatory Reporting Function Hierarchy

2.7.3 Subordinates

Not applicable.

3. DEPENDENCY DESCRIPTION

This section identifies dependent entities and describes their coupling through the use of Entity Relationship Diagrams. There are no external resources used in the WWIS so that subsection has been eliminated. The dependency description specifies relationships among the entities described in Section 2 and provides an overall picture of how the system works in order to assess the impact of requirements and design changes.

3.1 WWIS

3.1.1 Purpose

The WWIS will store information pertaining to characterization, certification, shipping, and disposal inventory at the WIPP.

3.1.2 Dependencies

Dependencies are shown in Appendix C Entity Relationship Diagrams. The first diagram shows the total system, all entities and their relationship to each other. The following ERDs break down by module.

3.2 Characterization

3.2.1 Purpose

Waste characterization data will be collected to support regulatory compliance programs associated with the WIPP facility. These regulatory compliance programs include an assessment and certification of the WIPP repository performance, the preparation of permit applications, and a variance petition.

3.2.2 Dependencies

Dependencies are shown in Appendix C Entity Relationship Diagram SDD_CHARZ.

3.3 Certification

3.3.1 Purpose

The criteria and requirements of the Waste Acceptance Criteria (WAC) must be met prior to shipping contact-handled and remote-handled TRU waste forms to the WIPP. Sites are responsible for the preparation of accurate data packages and assurance that the data packages match the payload to be shipped.

3.3.2 Dependencies

Dependencies are shown in Appendix C Entity Relationship Diagram SDD_CERT.

3.4 Shipment

3.4.1 Purpose

The criteria and requirements of the Waste Acceptance Criteria (WAC) must be met prior to shipping contact-handled and remote-handled TRU waste forms to the WIPP. Sites are responsible for the preparation of accurate data packages and assurance that the data packages match the payload shipped.

3.4.2 Dependencies

Dependencies are shown in Appendix C Entity Relationship Diagram SDD_SHIP.

3.5 Disposal

3.5.1 Purpose

When the waste arrives at the WIPP facility it must be tracked to its final disposal location.

3.5.2 Dependencies

Dependencies are shown in Appendix C Entity Relationship Diagram SDD_DISP.

4. INTERFACE DESCRIPTION

This section includes the details of external and internal interfaces not provided in the software requirements. Appendix E Module Definition contains details of the menus, forms, and reports that have been defined in the Oracle CASE Designer/2000 Repository. Operating environment for Oracle CASE and WWIS is an IBM or 100% compatible PC (80486 33MHZ minimum), 32MB of memory, 350MB disk space, WINDOWS 95 or WINDOWS NT operating system.

4.1 Characterization

4.1.1 Function

Waste characterization data are collected on a sample basis and stored in site-specific information systems. Once the sites have collected and validated their data the report can be transmitted to the WWIS to be used for planning and to support regulatory reports.

This design function hierarchy allows for transmittal, verification, and reporting of characterization data. The module allows WWIS personnel to accept shipper/generator characterization data and provides verification reports.

4.1.2 Interface

Menu Option	Module	Purpose
MN0100	CHARACTERIZATION	Access into the Characterization Module
MN0110	INPUT CHARACTERIZATION DATA	Allow user to transmit data electronically or interactively input.
MN0120	CHARACTERIZATION DATA ENTRY	Allow user to input characterization data through screens.
MN0130	CHARACTERIZATION DATA TRANSFER	Allow user to electronically transfer characterization data.
MN0140	REVIEW/APPROVE CHARACTERIZATION DATA	Review/update status code to accepted/rejected.
MN0150	CHARACTERIZATION REPORTS	Allow user to run characterization reports.

4.2 Certification

4.2.1 Function

This function allows for transmittal and verification of WAC data. The module allows WIPP personnel to accept certified WAC data and provides verification reports.

4.2.2 Interface

Menu Option	Module	Purpose
MN0200	CERTIFICATION	Access into the Certification Module
MN0210	INPUT CERTIFICATION DATA	Input certification data.
MN0220	CERTIFICATION DATA ENTRY	Data Entry screens for Certification.
MN0230	CERTIFICATION DATA TRANSFER	Certification data electronic transfer.
MN0240	REVIEW/APPROVE CERTIFICATION DATA	Review and approve certification data.
MN0250	CERTIFICATION REPORTS	Certification reports.

4.3 Shipment

4.3.1 Function

This function allows for transmittal and verification of shipment data. All modifications will be tracked in a Change Log. The module allows the shipper/generator to flag a shipment and its contents as complete, and WIPP personnel to accept or reject shipment data. It also provides verification reports. The International System of Units will be used when identified, for the measurement of activity in a package of radioactive material.

4.3.2 Interface

Menu Option	Module	Purpose
MN0300	SHIPPING	Access into the Shipping Module
MN0310	INPUT SHIPPING DATA	Shipping Data Input.
MN0320	SHIPPING DATA ENTRY	Shipping Data Entry Screens.
MN0330	SHIPPING DATA TRANSFER	Shipping Data Transmittal.
MN0340	REVIEW/APPROVE SHIPPING DATA	Review and approve shipping data.
MN0350	SHIPPING REPORTS	Shipping reports.

4.4 Disposal

4.4.1 Function

This function allows for the input and maintenance of container locations in the WWIS system. Actual tracking will be performed using bar-coding technology. This module will perform verification and range checks and produce validation reports.

4.4.2 Interface

Menu Option	Module	Purpose
	INVENTORY	Main menu for inventory.
MN0410	DOWNLOAD BAR CODE DATA	Download Bar Code data to the Readers.
MN0420	UPLOAD BAR CODE DATA	Upload location data from readers into WWIS.
MN0430	ENTER LOCATION DATA	Enter location data for inventory.
MN0440	INVENTORY REPORTS	Inventory reports.
MN0450	REPACKAGE CONTAINERS	Repackage containers

4.5 Data Administration

4.5.1 Function

This function allows for the input and maintenance of reference tables and reporting from reference tables or Change Log.

4.5.2 Interface

Menu Option	Module	Purpose
MN0500	DATA ADMINISTRATION	Data Administration Menu
MN0510	DATA ADMINISTRATION REFERENCE FORMS	Data Administration reference form menu.
MN0520	DATA ADMINISTRATION REPORTS	Produce reports for reference tables.
MN0530	DATA ADMINISTRATION CHANGE LOG REPORTING	Data Administration Change Log Reporting.

4.6 Decay Analysis

4.6.1 Function

This function provides the capability of performing decay analysis of radioactive materials disposed at WIPP through interface with the RADAC software.

4.6.2 Interface

Menu Option	Module	Purpose
MN0600	DECAY ANALYSIS	Decay Analysis menu.
MN0610	DECAY ANALYSIS REPORTS	Decay Analysis reports.

5. DETAIL DESCRIPTION

This section contains the internal details of each design entity. It includes a description of the rules used by the entity to achieve its function and a description of the data elements internal to each entity.

5.1 Characterization

5.1.1 Processing

The rules to achieve the function for the Characterization design Function Hierarchy are contained in the Appendix B Data Dictionary. Rules include limit, edit and range checks, data element relationships, and calculations.

5.1.1.1 Business Rules

1. No partial data package submittals allowed for Characterization
2. When Waste Stream Profile Form approved no Characterization data changes allowed.
3. When Certification approved no Characterization data changes allowed
4. No multiple "signatures" required for Approval
5. Multiple approvers allowed within Group (Characterization Approvers, Certification Approvers, Shipping Approvers)
6. Change log of any changes to "approved" data
7. When data are rejected(deleted), sites must resubmit

5.1.1.2 Design Constraints

1. Site Id and Container Number must be unique
2. Waste Stream Profile number will be validated against ref_ws_profile.
3. Waste Type code must be either "TRU" or "MTRU".
4. Waste Handling Code must be either "CH" or "RH".
5. Container type will be validated against the container type codes in REF_CONTAINER.
6. The disposal date is displayed, but non-enterable.
7. Decay heat must be entered.
8. Decay heat uncertainty must be entered.
9. Layers of packaging must be entered.
10. There must be at least one nuclide entered.
11. The radionuclide activity must be entered.
12. The radionuclide mass must be entered.
13. Waste container comments are optional, but when entered, will be validated by comment_type, e.g. Assay Method, Charz Method, Radionuclide, Hazardous Codes, Samples, Waste Container, and General.
14. There must be at least one sample type entered and it will be validated against the ref_sample_types table.
15. The sample_id must be entered.
16. The date sampled must be entered.

17. The sample_type and sample_id for sample amounts will be entered through processing of the form.
18. The method_id, which corresponds to characterization methods, must be of type "analytical" and will be validated where the site_id from the ref_site_charz_methods matches the site_id entered on the waste container screen.
19. The date sampled for each sample amount must be entered.
20. The analyte for each sample amount must be entered and will be validated against the ref_analytes table.
21. The reporting flag must be entered. This will be a radio button and will default to non-reportable.
22. The date analyzed must be entered.
23. There must be at least one material parameter entered. The material parameter will be validated against the ref_mat_parms table.
24. There must be at least one assay method entered. The assay method will be validated where the site_id from the ref_site_assay_method matches the one entered on the waste container screen.
25. There must be at least one characterization method entered. The characterization method will be of type "generic" for the waste container and will be validated where the site_id from the ref_site_charz_methods matches the site_id entered on the waste container screen.
26. The characterization method date must be entered.

5.1.1.3 Limit, Edit & Range Checks

FIELD	LIMITS, EDITS, & RANGE CHECKS	CALCULATED
Assay Characterization Method	Look-up table(REF_SITE_ASSAY_METHOD) listing approved methods	No
Characterization Methods	Look-up table (REF_SITE_CHARZ_METHOD)of characterization techniques	No
Container Identification Number	Unique number	No
Container Type Code	Look-up table (FEF_CONTAINER) of approved container type codes 001 55-gallon drum 002 SWB 003 TDOP 004 Pipe component (6") 005 Pipe component (12") 101 RH-TRU 72-B canister 102 RH-TRU drum canister	No
Decay Heat	None	Yes
Decay Heat Uncertainty	None	Yes
Headspace Gas Innermost Layer: Analyte Name	Look-up table (REF_ANALYTE) containing the 29 targeted analytes (this is a multiple occurring data field)	No
Headspace Gas Innermost Layer: Characterization Method	Look-up table(REF_SITE_CHARZ_METHOD) listing approved methods	No
Headspace Gas Innermost Layer: Date Analyzed	≤ 34 days from date sampled	No

FIELD	LIMITS, EDITS, & RANGE CHECKS	CALCULATED
Headspace Gas Innermost Layer: Flammable Gas Concentrations	≤ 5% (H_2 + CH_4)	No
Headspace Gas Innermost Layer: VOC Concentrations	This is a multiple occurring data field	No
Headspace Gas: Analyte Name	Look-up table (REF_ANALYTE) containing the 29 targeted VOC analytes	No
Headspace Gas: Characterization Method	Look-up table(REF_SITE_CHARZ_METHOD) listing approved methods	No
Headspace Gas: Date Analyzed	≤ 34 days after sampling date	No
Headspace Gas: Flammable Gas Concentrations	≤ 5% (H_2 + CH_4)	No
Headspace Gas: Total Flammable VOC Concentration	≤ 500 ppm total flammable VOCs	Yes
Headspace Gas: VOC Concentrations	No limits for the target VOCs except for the following: carbon tetrachloride ≤ 7510 chloroform ≤ 6325 1,1-dichloroethene ≤ 28750 1,2-dichloroethane ≤ 9100 methylene chloride≤368500	Yes
Item Description Code	Look-up table(REF_TRUCON_CODE_MTX) listing approved item description codes taken from the site's certification plan	No
Plutonium-239 Fissile Gram Equivalent	≤ 200 FGE per drum ≤ 325 FGE per SWB ≤ 325 FGE per canister ≤ 200 FGE per pipe overpack package	Yes
Plutonium-239 Fissile Gram Equivalent (Total)	≤ 325 FGE per TRUPACT-II ≤ 325 FGE per 72B	Yes
Plutonium-239 Fissile Gram Equivalent Uncertainty	None	Yes
Radionuclide Activity Uncertainty (Total)	None	Yes
Radionuclide Mass	None	Yes
Radionuclide Mass Uncertainty	None	Yes
Radionuclide Symbol	Look-up table (REF_NUCLIDE) containing the predominant radionuclides (this is a multiple occurring data field)	No
Reporting Flag	Coded to indicate appropriate flag per QAPP requirements	No
Solid Waste Metals: Analyte Name	Look-up table (REF_ANALYTE) of target solid waste metal analytes (this is a multiple occurring field)	No
Solid Waste Metals: Date Analyzed	≤ 180 days after sampling date ≤ 28 days for mercury	No
Solid Waste Semi-VOC: Analyte Name	Look-up table (REF_ANALYTE) of target solid	No

FIELD	LIMITS, EDITS, & RANGE CHECKS	CALCULATED
	waste semi-VOC analytes (this is a multiple occurring field)	
Solid Waste Semi-VOC: Concentration	Look-up table (REF_ANALYTE) of target solid waste semi-VOC analytes	No
Solid Waste Semi-VOC: Date Analyzed	≤ 180 days after sampling date	No
Solid Waste VOC: Analyte Name	Look-up table(REF_ANALYTE) of target solid waste VOC analytes (this is a multiple occurring field)	No
Solid Waste VOC: Concentration	Look-up table(REF_ANALYTE) of target solid waste VOC analytes	No
Solid Waste VOC: Date Analyzed	≤ 54 days after sampling date	No
Tentatively Identified Compounds: Analyte Name	Look-up table(REF_ANALYTE) of TICs identified in 40 CFR 264, Appendix IX	No
TRU Alpha Activity	None	Yes
TRU Alpha Activity Concentration	> 100 nCi/gram	Yes
TRUCON Content Code	Look-up table (REF_TRUCON_CODE_MTX) of approved content codes	No
Waste Container Fill Factor	Lower bound = 0 Upper bound = 100	No
Waste Material Parameters	Look-up table (REF_MAT_PAR) of waste material parameters	No
Waste Matrix Code	Look-up table (REF_TRUCON_CODE_MTX) of waste matrix codes	No
Waste Stream Profile Form Number	Look-up table (REF_WS_PROF) of approved waste stream profile form numbers	No
Weight of Waste Material Parameters	Sum of the estimated waste material parameter weights should equal the weight of the waste	Yes
Weight of Waste Uncertainty	None	Yes

5.1.2 Data

A description of the data elements for the Characterization design function hierarchy are contained in the Appendix B Data Dictionary.

FIELD
Assay Characterization Method
Assay Date
Characterization Methods
Comments
Contact Phone

FIELD
Container Identification Number
Container Type Code
Decay Heat
Decay Heat Uncertainty
Decay Heat (Maximum)
Headspace Gas Innermost Layer: Analyte Name
Headspace Gas Innermost Layer: Characterization Method
Headspace Gas Innermost Layer: Date Analyzed
Headspace Gas Innermost Layer: Date Sampled
Headspace Gas Innermost Layer: Flammable Gas Concentrations
Headspace Gas Innermost Layer: Identification
Headspace Gas Innermost Layer: VOC Concentrations
Headspace Gas: Analyte Name
Headspace Gas: Characterization Method
Headspace Gas: Date Analyzed
Headspace Gas: Date Sampled
Headspace Gas: Flammable Gas Concentrations
Headspace Gas: Total Flammable VOC Concentration
Headspace Gas: VOC Concentrations
Item Description Code
Layers of Packaging
Plutonium-239 Fissile Gram Equivalent
Plutonium-239 Fissile Gram Equivalent (Total)
Plutonium-239 Fissile Gram Equivalent Uncertainty
Radionuclide Activity
Radionuclide Activity Uncertainty
Radionuclide Activity Uncertainty (Total)
Reporting Flag
Solid Waste Metals: Analyte Name
Solid Waste Metals: Concentration
Solid Waste Metals: Date Analyzed
Solid Waste Metals: Date Sampled

FIELD
Solid Waste Semi-VOC: Analyte Name
Solid Waste Semi-VOC: Concentration
Solid Waste Semi-VOC: Date Analyzed
Solid Waste Semi-VOC: Date Sampled
Solid Waste VOC: Analyte Name
Solid Waste VOC: Concentration
Solid Waste VOC: Date Analyzed
Solid Waste VOC: Date Sampled
Tentatively Identified Compounds (TICs): Date Analyzed
Tentatively Identified Compounds (TICs): Date Sampled
Tentatively Identified Compounds: Analyte Name
Tentatively Identified Compounds: Concentration (mg/kg)
Tentatively Identified Compounds: Concentration (ppmv)
TRU Alpha Activity Concentration
TRU Alpha Activity Concentration Uncertainty
TRUCON Content Code
Waste Handling Code
Waste Material Parameters
Waste Matrix Code
Waste Stream MWIR ID
Waste Stream Profile Form Number
Waste Stream WIPP ID
Waste Type Code
Weight of Waste Material Parameters

5.2 Certification

5.2.1 Processing

The rules to achieve the function for the Certification design function hierarchy are contained in the Appendix B Data Dictionary. Rules include limit, edit and range checks, data element relationships, and calculations.

5.2.1.1 Business Rules

1. No partial data package submittals allowed for Certification
2. When Shipping approved no Certification data changes allowed
3. No multiple "signatures" required for Approval
4. Multiple approvers allowed within Group (Characterization Approvers, Certification Approvers, Shipping Approvers)
5. Change log of any changes to "approved" data
6. Container must be Certified before allowing Shipping
7. Could send Certification & Shipping data at the same time
8. When data are rejected (deleted), sites must resubmit

5.2.1.2 Design Constraints

1. Site Id and Container Number must be unique
2. Waste Stream Profile number will be validated against ref_ws_profile.
3. Waste Type code must be either "TRU" or "MTRU".
4. Waste Handling Code must be either "CH" or "RH".
5. Certification Site will be validated against REF_SITES where certifier_flg = 'Y'.
6. The WAC revision number will default to 5, but may be changed to a greater number. This data are NOT required for Characterization.
7. The WAC exception number may only be filled in for certification data.
8. Container type will be validated against the container type codes in REF_CONTAINER.
9. The filter install date must be entered.
10. The filter model must be entered.
11. The vent date must be entered.
12. The closure date must be entered.
13. Aspiration method must be entered.
14. The disposal date is displayed, but non-enterable.
15. The beta/gamma dose rate must be entered.
16. The neutron dose rate must be entered.
17. Decay heat must be entered.
18. Decay heat uncertainty must be entered.
19. Fill factor must be entered and must be in the range between 1 and 100.
20. Gross Weight must be entered.
21. Gross weight uncertainty must be entered and must be less than the gross weight.
22. Waste weight must be entered and must be less than the gross weight.
23. Waste weight uncertainty must be entered and must be less than the waste weight entered.
24. Layers of packaging must be entered.
25. Liner type must be entered.
26. PU-239 Equivalent Activity must be entered.
27. There must be at least one nuclide entered.
28. The radionuclide activity must be entered.
29. The radionuclide mass must be entered.
30. Waste container comments are totally optional, but when entered, will be validated by comment_type, e.g. Assay Method, Charz Method, Radionuclide, Hazardous Codes, Samples, Waste Container, and General.
31. At least one hazardous code must be entered (if waste type = 'MTRU') and will be validated against the ref_site_haz_codes table where the site from the ref_site_haz_codes table equals the site entered on the waste container screen.

32. There must be at least one sample type entered and it will be validated against the ref_sample_types table.
33. The sample_id must be entered.
34. The date sampled must be entered.
35. The sample_type and sample_id for sample amounts will be entered through processing of the form.
36. The method_id, which corresponds to characterization methods, must be of type "analytical" and will be validated where the site_id from the ref_site_charz_methods matches the site_id entered on the waste container screen.
37. The date sampled for each sample amount must be entered.
38. The analyte for each sample amount must be entered and will be validated against the ref_analytes table.
39. The reporting flag must be entered. This will be a checkbox field and will default to unchecked, which means non-reportable.
40. The date analyzed must be entered.
41. There must be at least one material parameter entered. The material parameter will be validated against the ref_mat_parms table.
42. There must be at least one assay method entered. The assay method will be validated where the site_id from the ref_site_assay_method matches the one entered on the waste container screen.
43. There must be at least one characterization method entered. The characterization method will be of type "generic" for the waste container and will be validated where the site_id from the ref_site_charz_methods matches the site_id entered on the waste container screen.
44. The characterization method date must be entered.

5.2.1.3 Edit & Range Checks

FIELD	LIMITS, EDITS, & RANGE CHECKS	CALCULATED
Aspiration Method	Edit check of either 1, 2, or 3. No Blanks	No
Aspiration Period	Look-up table (REF_ASPIRATION) of container aspiration periods	No
Assay Characterization Method	Look-up table (REF_SITE_ASSAY_METHOD) listing approved methods	No
Characterization Methods	Look-up table (REF_SITE_CHARZ_METHOD) of characterization techniques	No
Contact Dose Rate of Container (Beta/Gamma)	≤ 200 mrem/hr for CH ≤ 100 rem/hr for RH	No
Contact Dose Rate of Container (Neutron)	≤ 270 mrem/hr for RH	No
Contact Dose Rate of Container (Total)	≤ 200 mrem/hr for CH ≤ 100 rem/hr for RH	Yes
Container Identification Number	Unique number	No
Container Liner Punctured	If field 16 had identified the use of a liner, reject if "no"	No
Container Liner Type	Look-up table (REF_LINER) of standard liners. Look-up table is also to contain the option of "no liner".	No

FIELD	LIMITS, EDITS, & RANGE CHECKS	CALCULATED
Container Type Code	Look-up table (REF_CONTAINER) of approved container type codes 001 55-gallon drum 002 SWB 003 TDOP 004 Pipe component (6") 005 Pipe component (12") 101 RH-TRU 72-B canister 102 RH-TRU drum canister	No
Decay Heat	None	Yes
Decay Heat Uncertainty	None	Yes
Filter Model	Look-up table (REF_FILTER_MODEL) listing approved filters	No
Hazardous ID Code	Look-up table(REF_SITE_HAZ_CODE) listing the codes	No
Headspace Gas: Analyte Name	Look-up table (REF_ANALYTE) containing the 29 targeted VOC analytes	No
Headspace Gas: Characterization Method	Look-up table(REF_SITE_CHARZ_METHOD) listing approved methods	No
Headspace Gas: Date Analyzed	≤ 34 days after sampling date	No
Headspace Gas: Flammable Gas Concentrations	≤ 5% (H_2 + CH_4)	No
Headspace Gas: Total Flammable VOC Concentration	≤ 500 ppm total flammable VOCs	Yes
Headspace Gas: VOC Concentrations	No limits for the target VOCs except for the following: carbon tetrachloride ≤ 7510 chloroform ≤ 6325 1,1-dichloroethene ≤ 28750 1,2-dichloroethane ≤ 9100 methylene chloride≤368500	Yes
Item Description Code	Look-up table (REF_TRUCON_CODE_MTX) listing approved item description codes taken from the site's certification plan	No
PCB Concentration	≤ 50 ppm No blanks	No
Plutonium-239 Equivalent Activity	≤ 80 PE-Ci per drum ≤ 130 PE-Ci per SWB ≤ 1000 PE-Ci per canister	Yes
Plutonium-239 Fissile Gram Equivalent	≤ 200 FGE per drum ≤ 325 FGE per SWB ≤ 325 FGE per canister ≤ 200 FGE per pipe overpack package	Yes
Plutonium-239 Fissile Gram Equivalent (Total)	≤ 200 FGE per drum ≤ 325 FGE per SWB ≤ 325 FGE per canister ≤ 200 FGE per pipe overpack package	Yes
Plutonium-239 Fissile Gram Equivalent Uncertainty	None	Yes

FIELD	LIMITS, EDITS, & RANGE CHECKS	CALCULATED
Radionuclide Activity Uncertainty (Total)	None	Yes
Radionuclide Mass	None	Yes
Radionuclide Mass Uncertainty	None	Yes
Radionuclide Symbol	Look-up table (REF_NUCLIDE) containing the predominant radionuclides (this is a multiple occurring data field)	No
Reporting Flag	Coded to indicate appropriate flag per QAPP requirements	No
Shipping Category	All containers within a package must be of the same shipping category	No
Surface Contamination of Container (Alpha)	≤ 20 dpm/100 cm^2 (alpha)	No
Surface Contamination of Container (Beta/Gamma)	≤ 200 dpm/100 cm^2 (beta/gamma)	No
TRU Alpha Activity	None	Yes
TRU Alpha Activity Concentration	> 100 nCi/gram	Yes
TRUCON Content Code	Look-up table (REF_TRUC_CODE_MATRIX) of approved content codes	No
WAC Certification Site	Look-up table (REF_SITE) of site identification codes	No
WAC Exception Number	Look-up table (REF_WAC_EXCEPT) containing approved WAC exception numbers	No
WAC Revision Number	≥ Revision 5	No
Waste Container Fill Factor	Lower bound = 0 Upper bound = 100	No
Waste Matrix Code	Look-up table (REF_TRUCON_CODE_MTX) of waste matrix codes	No
Waste Stream Profile Form Number	Look-up table (REF_WS_PROF) of approved waste stream profile form numbers	No
Weight (Gross)	≤ 1000 lbs per drum ≤ 4000 lbs per SWB ≤ 6450 lbs per TDOP ≤ 8000 lbs per canister	No
Weight of Waste	None	Yes
Weight of Waste Material Parameters	Sum of the estimated waste material parameter weights should equal the weight of the waste	Yes
Weight of Waste Uncertainty	None	Yes

5.2.2 Data

A description of the data elements for the Certification design function hierarchy are contained in the Appendix B Data Dictionary.

FIELD
Aspiration Method
Aspiration Period
Assay Characterization Method
Assay Date
Characterization Methods
Comments
Contact Dose Rate of Container (Beta/Gamma)
Contact Dose Rate of Container (Neutron)
Contact Dose Rate of Container (Total)
Container Closure Date
Container Identification Number
Container Liner Punctured
Container Liner Type
Container Type Code
Decay Heat
Decay Heat Uncertainty
Filter Install Date
Filter Model
Hazardous ID Code
Headspace Gas: Analyte Name
Headspace Gas: Characterization Method
Headspace Gas: Date Analyzed
Headspace Gas: Date Sampled
Headspace Gas: Flammable Gas Concentrations
Headspace Gas: Total Flammable VOC Concentration
Headspace Gas: VOC Concentrations
Item Description Code
Layers of Packaging
PCB Concentration

FIELD
Plutonium-239 Equivalent Activity
Plutonium-239 Fissile Gram Equivalent
Plutonium-239 Fissile Gram Equivalent (Total)
Plutonium-239 Fissile Gram Equivalent Uncertainty
Radionuclide Activity
Radionuclide Activity Uncertainty
Radionuclide Activity Uncertainty (Total)
Radionuclide Mass
Radionuclide Mass Uncertainty
Radionuclide Symbol
Reporting Flag
Shipping Category
Surface Contamination of Container (Alpha)
Surface Contamination of Container (Beta/Gamma)
TRU Alpha Activity
TRU Alpha Activity Concentration
TRU Alpha Activity Concentration Uncertainty
TRU Alpha Activity Uncertainty
TRUCON Content Code
Vent/Puncture Date
WAC Certification Date
WAC Certification Site
WAC Exception Number
WAC Revision Number
Waste Container Fill Factor
Waste Handling Code
Waste Material Parameters
Waste Matrix Code
Waste Stream Profile Form Number
Waste Type Code
Weight (Gross)
Weight of Waste

FIELD
Weight of Waste Material Parameters
Weight of Waste Uncertainty
Weight Uncertainty (Gross)

5.3 Shipment

5.3.1 Processing

The rules to achieve the function for the Shipment design function hierarchy are contained in the Appendix B Data Dictionary. Rules include limit, edit and range checks, data element relationships, and calculations.

5.3.1.1 Business Rules

3. No partial data package submittals allowed for Shipping (except shipment date, Manifest number, TRUPACT/cask number, ICV closure date)
6. When Shipping approved no Certification data changes allowed
7. No multiple "signatures" required for Approval
8. Multiple approvers allowed within Group (Characterization Approvers, Certification Approvers, Shipping Approvers)
9. Change log of any changes to "approved" data
10. Container must be Certified before allowing Shipping
11. Could send Certification & Shipping data at the same time
12. When data are rejected(deleted), sites must resubmit

5.3.1.2 Edit & Range Checks

FIELD	LIMITS, EDITS, & RANGE CHECKS	CALCULATED
Aspiration Method	Edit check of either 1, 2, or 3. No Blanks	No
Aspiration Period	Look-up table of container aspiration periods	No
Assembly Identification Number	Unique number Each container in an assembly (e.g. a seven pack) must be of the same shipping category	No
Contact Dose Rate of Package (Total at Surface)	≤ 200 mrem/hr	No
Container Identification Number	Unique number	No
Decay Heat of Package	≤ 40 watts per TRUPACT-II package	Yes
Decay Heat Uncertainty	None	Yes
Decay Heat Uncertainty of Package	None	Yes
Decay Heat (Maximum)	Look-up table containing decay heat limits for each shipping category	Yes

FIELD	LIMITS, EDITS, & RANGE CHECKS	CALCULATED
Disposal Date	Date equal to or later than the shipment receipt date	No
Dose Rate of Package at 2 Meters	≤ 10 mrem/hr	No
DOT Description	None	No
EPA ID	Look-up table containing the corresponding name and address of the generator	No
Gas Generation Rate - Measured H_2 + CH_4	Look-up table containing hydrogen and methane gas generation rate limits as a function of packaging layers, content code, and radionuclide activity	No
Gas Generation Rate - Measured Total	Look-up table containing total gas generation rate limits as a function of packaging layers, content code, and radionuclide activity	No
Hazardous ID Code	Look-up table listing the codes	No
Plutonium-239 FGE per Type B RH-TRU 72-B Waste Shipping Package (Total)	≤ 325 FGE	Yes
Plutonium-239 Fissile Gram Equivalent per Type B Package	≤ 325 FGE ≤ 2800 FGE for pipe overpack packages	Yes
Plutonium-239 Fissile Gram Equivalent per Type B Package for CH-TRU (Total)	≤ 325 FGE ≤ 2800 FGE for pipe overpack packages	Yes
Plutonium-239 Fissile Gram Equivalent Uncertainty per Type B Package	None	Yes
Radionuclide Highway Route Controlled Quantity	yes if > 1 no if ≤ 1	Yes
Radionuclide Reportable Quantity	None	Yes
Shipment Certification Date	Shipment certification date ≥ WAC certification date	No
Shipment Number	Unique	No
Shipment Receipt Date	Shipment receipt date ≥ shipment send date	No
Shipment Send Date	Shipment send date ≥ shipment certification date	No
Shipping Category	All containers within a package must be of the same shipping category	No
Transporter EPA ID	Look-up table containing the corresponding name and address of the transporter	No
Vehicle Type	Look-up table containing either "R" for railcar or "T" for truck	No
Weight of a TRUPACT-II Shipment	The sum of the weights of the TRUPACT-II packages (unique for each serial number) including their payloads per railcar or truck	Yes

Weight of Payload Assembly	Equal to the sum of the gross weights of the seven drums contained in the payload assembly	Yes
Weight of TRUPACT-II	The sum of the weights of the TRUPACT-II (using a look-up table of TRUPACT-II weights per serial number) and the payload.	Yes

5.3.2 Data

A description of the data elements for the Shipment design function hierarchy are contained in the Appendix B Data Dictionary.

FIELD
Aspiration Method
Aspiration Period
Assembly Identification Number
Contact Dose Rate of Package (Total at Surface)
Container Closure Date
Container Identification Number
Decay Heat of Package
Decay Heat Uncertainty
Decay Heat Uncertainty of Package
Decay Heat (Maximum)
Disposal Date
Dose Rate of Package at 1 Meter
Dose Rate of Package at 2 Meters
DOT Description
EPA ID
Gas Generation Completion Date
Gas Generation Rate - Measured H_2 + CH_4
Gas Generation Rate - Measured Total
Hazardous ID Code
ICV Closure Date
Manifest Document Number
Packaging Serial Number

FIELD
Plutonium-239 FGE per Type B RH-TRU 72-B Waste Shipping Package (Total)
Plutonium-239 Fissile Gram Equivalent per Type B Package
Plutonium-239 Fissile Gram Equivalent per Type B Package for CH-TRU (Total)
Plutonium-239 Fissile Gram Equivalent Uncertainty per Type B Package
Radionuclide Highway Route Controlled Quantity
Radionuclide Reportable Quantity
Shipment Certification Date
Shipment Number
Shipment Receipt Date
Shipment Send Date
Shipping Category
Transporter EPA ID
Transporter Name
TRUPACT-II OCA Lid Number
Vehicle Type
Weight of a TRUPACT-II Shipment
Weight of Payload Assembly
Weight of TRUPACT-II

5.4 Disposal

5.4.1 Processing

The rules to achieve the function for the Disposal design function hierarchy are contained in the Appendix B Data Dictionary. Rules include limit, edit and range checks, data element relationships, and calculations.

5.4.1.1 Business Rules

Not Applicable.

5.4.1.2 Edit & Range Checks

FIELD	LIMITS, EDITS, & RANGE CHECKS	CALCULATED
Disposal Date	Date equal to or later than the shipment receipt date	No

5.4.2 Data

A description of the data elements for the Disposal design function hierarchy are contained in the Appendix B Data Dictionary.

FIELD
Bore Hole Number
Building Number
Column Height
Column Number
Comments
Container Identification Number
Disposal Date
Insert Date
Pad Number
Panel Number
Room Number
Row Number
Sublocation Character
Waste Handling Code

6. REFERENCES

1. *WWIS Software Requirements Specification,* INEL-95/075, Rev. 1.0 , June 1996.

2. ANSI/IEEE 1016-1987, "IEEE Recommended Practice for Software Design Descriptions," American National Standards Institute/Institute of Electrical and Electronics Engineers.

3. ANSI/IEEE 610.12-1990, "IEEE Standard Glossary of Software Engineering Terminology," American National Standards Institute/Institute of Electrical and Electronics Engineers.

4. *Waste Acceptance Criteria for the Waste Isolation Pilot Plant*, WIPP/DOE-069, Rev. 5, April 1996.

5. *DOE Order 5820.2A, "Radioactive Waste Management,"* U.S. Department of Energy, Washington, D.C., Sept. 26, 1988.

6. *WWIS Software Quality Assurance Plan*, CAO-95-1108, May 1995.

7. *WWIS Software Verification & Validation Plan*, CAO-95-1109, June 1995.

8. *WWIS Software Configuration Management Plan*, CAO-95-1110, July 1995.

9. *TRUPACT-II SAR, Appendix 1.2.7, TRUPACT-II authorized Methods for Payload Control (TRAMPAC)*, Rev. 12, September 1992.

APPENDIX A REQUIREMENTS MATRIX

APPENDIX A
REQUIREMENTS MATRIX

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
1.	3.1.2 User Administration	The user administration function is responsible for maintaining WWIS data pertaining to users of the system. This includes updating user data files (information about the users), setting up access for new users to the application, defining how the user is to use the system, and deleting users from the application.	2.5 Data Administration	Data Administration controls access to data, updates tables containing reference data used system-wide, produces reports and inserts change information in logs.
2.	3.1.3 Data Administration	Data administration includes determining appropriate user access to the data, administering reference tables used system-wide, producing reports from the reference tables, logging changes, and assisting users with problems. Data administration updates tables containing reference data and inserts change information in event logs.	2.5 Data Administration	Data Administration controls access to data, updates tables containing reference data used system-wide, produces reports and inserts change information in logs.
3.	3.1.4 Database Administration	Database administration includes installing and maintaining client/server software; backing up and recovering the database; and assisting with user problems.	NOTE: These requirements will not be provided for by developed software. (This must be met by the service agreement with the computer operations organization.)	
4.	3.2.1 Input of Characterization Data	The shipper/generator is given access to the WWIS system to electronically transfer characterization data from his/her system to WWIS. Data transferred from the shipper/generator must be formatted to mirror the WWIS system.	2.1.3.1 Transmittal	The shipper/generator is given access to the WWIS to electronically transfer characterization data from his/her system to WWIS.
5.	3.2.1.1 Characterization Data Entry	Characterization data entry will be granted to the smaller sites. Edit and range checks will be interactive. The data entered will be descriptors for a waste container including radionuclide data, comments, sample data and amounts, hazardous codes, material parameters, and assay methods.	2.1.3.2 Data Input	Selected sites will be granted access to the WWIS to input their data. Edit and range checks will be interactive.

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
6.	3.2.1.2 Characterization Data Electronic Transfer	Characterization data electronic transfer will be granted for those sites that have an electronic waste information system at their own site. The data from their system must be formatted to be consistent with the WWIS data structures. Before data is transferred, it will be verified to ensure integrity. The sender will be notified of all results. The WWIS system performs edit and range checks on the characterization data and identifies all errors by waste container identification number. The shipper/generator and WWIS personnel are allowed to view and/or print error reports. After the characterization data have passed all edit and range checks, the shipper/generator will receive a message to that effect. A message file or report will be created for WWIS giving notification that the characterization data are ready for acceptance. The shipper/generator is allowed to only view his/her data packages. Whenever modifications are made to the data package, it must be re-transmitted. Changes will be recorded in a Change Log, and the entire data package will be revalidated and must go through the acceptance procedure again.	2.1.3.1 Transmittal	Selected sites will be granted access to the WWIS to input their data. Edit and range checks will be interactive.

APPENDIX A
REQUIREMENTS MATRIX

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
7.	3.2.2 Acceptance and Rejection of Characterization Data	Once all validations and range checks have been satisfied, the data package is ready for WIPP personnel to acknowledge the acceptance of the data to support a Waste Stream Profile Form. An acceptance report will be generated by the WWIS system. See Section 3.2.3 for more information on reports. If the data package is rejected during the review process at WIPP, a reason for the rejection must be supplied by the WIPP person who rejected it. A rejection report will be generated by the WWIS system. See Section 3.2.3 for more information on reports.	2.1.3.3 Acceptance/Rejection	Once all verifications have been satisfied, the data package is ready for acceptance by WIPP personnel. Upon review of data by knowledgeable WIPP personnel, if deemed acceptable, an acknowledgement will be sent to the shipper/generator and the User Id of the WIPP person who accepted the data package will be stored. An acceptance report will be generated by the WWIS system. Change Log information will be tracked after initial acceptance of the data by WIPP. If the data package is deemed unacceptable, a reason for the rejection must be supplied by the WIPP person who rejected it and a notification sent to the shipper/generator. A rejection report will be generated by the WWIS system.
8.	3.2.3 Reports Data Error Report	Reports to WWIS and the generator of any data not accepted by the database because of edit and/or limit violations. This report is to be generated automatically by the database as the erroneous data is supplied to the WWIS to facilitate early resolution of any potential data errors. This report will list the waste container Id, verification, and/or range check errors for each data package that did not meet characterization checks.	2.1.3.4.1 Data Error Report	Reports to WWIS and the generator of any data not accepted by the database because of edit and/or limit violations. This report is to be generated automatically by the database as the erroneous data is supplied to the WWIS to facilitate early resolution of any potential data errors. This report will list the waste container Id, verification, and/or range check errors for each data package that did not meet characterization checks.
9.	3.2.3 Reports Characterization Data Acceptance/Rejection	This report will list the waste container Id and user Id of WIPP personnel. The reason the data was rejected will also be supplied when appropriate.	2.1.3.4.2 Characterization Data Acceptance/Rejection	This report will list the waste container Id and user Id of WIPP personnel. The reason the data was rejected will also be supplied when appropriate.

APPENDIX A
REQUIREMENTS MATRIX

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
10.	3.2.5 Reports Characterization Data Report	This report is to be generated by waste stream and will be used by WIPP in the Waste Stream Profile Form review and approval process. The selection criteria for this report will be the waste stream Id and the generator site Id. This report is to be generated by WIPP personnel as required to provide input to the Waste Stream Profile approval process. This report will list in tabular format by waste generator/storage site, waste matrix code group, TRUcon code, IDC code, and all analyte data to support Waste Stream Profile.	2.1.3.4.3 Characterization Data Report	This report is to be generated by waste stream and will be used by WIPP in the Waste Stream Profile Form review and approval process. The selection criteria for this report will be the waste stream Id and the shipper site Id. This report is to be generated by WIPP personnel as required to provide input to the Waste Stream Profile approval process. This report will list in tabular format by waste generator/storage site, waste matrix code group, TRUcon code, IDC code, and all analyte data to support Waste Stream Profile.
11.	3.3.1 Input of Shipper/Generator's Certification Data	The shipper/generator is given access to the WWIS system to electronically transfer certification data from his/her system to WWIS. Data transferred from the shipper/generator must be formatted to mirror the WWIS system.	2.2.3.1 Transmittal	The shipper/generator is given access to the WWIS system to electronically transfer WAC data from his/her system to WWIS. Data transferred from the shipper/generator must be formatted to mirror the WWIS system.
12.	3.3.1.1 Certification Data Entry	Certification data entry will be granted to the smaller sites. Edit and range checks will be interactive. The data entered will be descriptors for a waste container including site, trucon/shipping category, matrix code, characterization method, liner, container type, nuclides, assay method, filter method, aspiration, waste stream profile, status, comments, and WAC exceptions.	2.2.3.2 Data Input	Selected sites will be granted access to the WWIS to input their data. Edit and range checks will be interactive.

APPENDIX A
REQUIREMENTS MATRIX

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
13.	3.3.1.2 Certification Data Electronic Transfer	Certification data electronic transfer will be granted for those sites that have an electronic waste information system. The data from their system must be formatted to be consistent with WWIS data structures. Before data is transferred, it will be verified to ensure integrity. The sender will be notified of all results. The WWIS system performs edit and range checks on WAC data and identifies all errors by package identification number. The shipper/generator and WIPP personnel are allowed to view and/or print error reports. A shipper/generator may request an exception to a range or edit check. If the exception is granted then the shipper/generator will update the container package data to include the WAC exception number. The data administrator will update the WAC exception table with the WAC exception number, Package Id and the new limits for the field allowed the exception. After the certification data have passed all edit and range checks, the shipper/generator receives a message to that effect. A message file or report is created for WIPP with the following information: • Notification that the certification data were accepted into the WWIS • WAC exception numbers, if applicable. The shipper/generator is allowed to only view his/her data packages. Whenever updates are made to the data package, it must be re-transmitted. Changes will be recorded in a Change Log, and the entire data package will be revalidated and must go through the acceptance procedure again. See Section 3.6 for details on the Change Log trail.	2.2.3.1 Transmittal	The shipper/generator is granted access to the WWIS system to electronically transfer WAC data from his/her system to WWIS. Data transferred from the shipper/generator must be formatted to match the data fields and format of the WWIS system

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
14.	3.3.1.3 WAC Exceptions.	A shipper/generator may request an exception to a range or edit check. The data administrator will update the WAC exception table with the WAC exception number, package Id, and the new limits for the field allowed the exception. If the exception is granted, then the shipper/generator will update the container package data to include the WAC exception number.	2.2.3.3 WAC Exceptions	A shipper/generator may request an exception to a range or edit check limit. If the exception is granted, the data administrator must first update the WAC exception table with the WAC exception number, package Id, and the new limits for the field allowed the exception. Then the shipper/generator will update the container package data to include the WAC exception number.
15.	3.3.2 Acceptance and Rejection of Certification	Once all validations and range checks have been satisfied, the data package is ready for acceptance of certification. Acceptance of certification is granted by WIPP personnel. An acceptance report will be generated by the WWIS system. See Section 3.3.3 for more information on reports. If certification is rejected a reason for rejection must be supplied by the WIPP person who rejected it. A rejection report will be generated by the WWIS system. See Section 3.3.3 for more information on reports.	2.2.3.4 Acceptance / Rejection of Certification Data	Once all verifications have been satisfied, the data package is ready for acceptance by WIPP personnel. Upon review of data by knowledgeable WIPP personnel, if deemed acceptable, an acknowledgement will be sent to the shipper/generator and the User Id of the WIPP person who accepted the data package will be stored. An acceptance report will be generated by the WWIS system. Change Log information will be tracked after initial acceptance of the data by WIPP. If the data package is deemed unacceptable, a reason for the rejection must be supplied by the WIPP person who rejected it and a notification sent to the shipper/generator. A rejection report will be generated by the WWIS system.
16.	3.3.3 Reports Data Error Report	Reports to WWIS and the generator of any data not accepted by the database because of edit and/or limit violations. This report is to be generated automatically by the database as the erroneous data is supplied to the WWIS to facilitate early resolution of any potential data errors. This report will list the waste container Id, verification and/or range check errors for each waste container that did not meet acceptance criteria.	2.2.3.5.1 Data Error Report	Reports to WWIS and the generator of any data not accepted by the database because of edit and/or limit violations. This report is to be generated automatically by the database as the erroneous data is supplied to the WWIS to facilitate early resolution of any potential data errors. This report will list the waste container Id, verification and/or range check errors for each waste container that did not meet acceptance criteria.

APPENDIX A
REQUIREMENTS MATRIX

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
17.	3.3.3 Reports Certification Data Acceptance/Rejection Report	This report will list the waste container Id and user Id of WIPP personnel. The reason the data was rejected will also be supplied when appropriate.	2.2.3.5.2 Certification Data Acceptance/Rejection Report	This report will list the waste container Id and user Id of WIPP personnel. The reason the data was rejected will also be supplied when appropriate.
18.	3.3.3 Reports Certification Data Report	This report is to contain the data necessary for WIPP personnel to make decisions regarding the acceptance of the waste at WIPP. The selection criteria for this report will be the individual container Ids of the containers being considered for acceptance. This report is to be generated by WIPP personnel as required to support waste acceptance decisions. This report will list certification data by waste container to include container type, container weight, contact dose rate, certification date, PE curie equivalent, fissile gram equivalent, radioassay date, radioassay method, radionuclides and quantities, handling code, waste weight, surface contamination, PCB concentration, waste stream profile, and headspace gas data (sample date, analysis date, analytes, concentration and method).	2.2.3.5.3 Certification Data Report	This report is to contain the data necessary for WIPP personnel to make decisions regarding the acceptance of the waste at WIPP. The selection criteria for this report will be the individual container Ids of the containers being considered for acceptance. This report is to be generated by WIPP personnel as required to support waste acceptance decisions. This report will list certification data such as waste container to include container type, container weight, contact dose rate, certification date, PE curie, fissile gram equivalent, assay date, assay method, radionuclides and quantities, handling code, waste weight, surface contamination, PCB concentration, waste stream profile, and headspace gas data (sample date, analysis date, analytes, concentration and method).
19.	3.4.1 Input of Shipping Data Package	This function allows for transmittal and verification of shipment data. All modifications will be tracked in a Change Log. The module allows the shipper/generator to flag a shipment as complete, and WIPP personnel to accept or reject shipment data. It also provides verification reports.	2.3.3.1 Transmittal	The shipper is given access to the WWIS system to electronically transfer shipment data from his/her system to WWIS. Data transferred from the shipper must be formatted to mirror the WWIS system.
20.	3.4.1.1 Shipping Data Entry	Shipping data entry will be granted to the smaller sites. Edit and range checks will be interactive. The data entered will be descriptors by waste container or dunnage container, including shipment, packaging, and assembly.	2.3.3.2 Data Input	Selected sites will be granted access to the WWIS to input their data. Edit and range checks will be interactive.

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
21.	3.4.1.2 Shipping Data Electronic Transfer	Shipping data electronic transfer will be granted for those sites that have an electronic waste information system. The data from their system must be formatted to be consistent with our data structures. Before data is transferred, it will be verified to ensure integrity. The sender will be notified of all results. The WWIS system performs edit and range checks on all shipment data and identifies all errors by shipment number and package identification number. The shipper/generator and WIPP personnel will be allowed to view and/or print error reports. After the shipment has passed all edit and range checks, the shipper/generator will receive a message to that effect at which time the shipper/generator will not be allowed to update the shipment or data package further. A message file or report will be created for WIPP notifying that the shipment data was accepted into the WWIS. The shipper/generator is allowed to only view his/her shipment and data packages. Whenever updates are made to the shipment or data package, it must be re-transmitted. Changes will be recorded in a Change Log, and the entire data package will be revalidated. See Section 3.6 for details on the Change Log trail.	2.3.3.1 Transmittal	The shipper is given access to the WWIS system to electronically transfer shipment data from his/her system to WWIS. Data transferred from the shipper must be formatted to mirror the WWIS system.

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
22.	3.4.2 Acceptance and Rejection of Shipment Data	Before data is transferred, it will be verified to ensure integrity. The sender will be notified of all results. Once all validations and range checks have been satisfied, the shipment is ready for WIPP personnel to accept. Upon acceptance of shipment, the user Id of the WIPP person who accepted the shipment will be stored. An acceptance report will be generated by the WWIS system. See Section 3.4.4 for more information on reports. Once the data package has been flagged as complete, the shipper/generator will not be allowed to make further modifications with the exception of Shipment date, Manifest number, and ICV Closure date. These fields would be verified and updated at the time of shipment. If the shipment is rejected, a reason for the rejection must be supplied by the WIPP person who rejected it. A rejection report will be generated by the WWIS system. See Section 3.4.4 for more information on reports.	2.3.3.3 Acceptance of Shipment	Once all validations and range checks have been satisfied, the shipment is ready for WIPP personnel to accept. Upon review of data by knowledgeable WIPP personnel, if deemed acceptable, an acknowledgement will be sent to the shipper and the User Id of the WIPP person who accepted the shipment will be stored. An acceptance report will be generated by the WWIS system. Change Log information will be tracked after initial acceptance of the data by WIPP. If the shipment is deemed unacceptable, a reason for the rejection must be supplied by the WIPP person who rejected it and a notification sent to the shipper. A rejection report will be generated by the WWIS system.
23.	3.4.3 Shipment Receipt	Upon arrival of the actual shipment WIPP personnel will ensure that all shipment data have been entered and will input the date the shipment was received.	2.3.3.4 Shipping Receipt	Upon arrival of the actual shipment WIPP personnel will ensure that all shipment data have been entered and will input the date the shipment was received.

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
24.	3.4.4 Reports Data Error Report	Reports to WWIS and the generator of any data not accepted by the database because of edit and/or limit violations. These reports are to be generated automatically by the database as the erroneous data is supplied to the WWIS to facilitate early resolution of any potential data errors. This report will list the shipment number, package Id, verification and/or range check errors for each shipment that did not meet acceptance criteria.	2.3.3.5.1 Data Error Report	Reports to WWIS and the generator of any data not accepted by the database because of edit and/or limit violations. These reports are to be generated automatically by the database as the erroneous data is supplied to the WWIS to facilitate early resolution of any potential data errors. This report will list the shipment number, package Id, assembly Id, verification and/or range check errors for each shipment that did not meet acceptance criteria.
25.	3.4.4 Reports Shipment Data Acceptance/Rejection Report	This report will list the shipment number and user Id of WIPP personnel. The reason the data was rejected will also be supplied when appropriate.	2.3.3.5.2 Shipment Data Acceptance/Rejection Report	This report will list the shipment number and user Id of WIPP personnel. The reason the data was rejected will also be supplied when appropriate.
26.	3.4.4 Reports Shipment Summary Report	This report is to include the data pertinent to waste receipt and waste handling operations at WIPP such as shipment number, TRUPACT number, assembly number, ICV closure date, shipment certification date, shipment date, the weight, surface dose rate, Id numbers of every container included in the shipment , and the Hazardous Waste Manifest Number, if assigned, to the shipments. This report will be generated automatically by the database after all of the shipment information has been received by the WWIS and the acceptance of the waste for shipment by WIPP has been completed. Some of the required information will not be known until just before shipment time, such as the number of the particular TRUPACT-II Package(s), the Hazardous Waste Manifest Number (if required), and the final shipping date. The report will be generated after the shipment is accepted by WIPP and when all of the final information has been input to the WWIS.	2.3.3.5.3 Shipment Summary Report	This report is to include the data pertinent to waste receipt and waste handling operations at WIPP such as shipment number, TRUPACT number, assembly number, ICV closure date, shipment certification date, shipment date, the weight, surface dose rate, Id numbers of every container included in the shipment, and the Hazardous Waste Manifest Number, if assigned (applicable), to the shipments. This report will be generated automatically by the database after all of the shipment information has been received by the WWIS and the acceptance of the waste for shipment by WIPP has been completed. Some of the required information will not be known until just before shipment time, such as the number of the particular TRUPACT-II Package(s), the Hazardous Waste Manifest Number (if required), and the final shipping date. The report will be generated after the shipment is accepted by WIPP and when all of the final information has been input to the WWIS.

APPENDIX A
REQUIREMENTS MATRIX

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
27.	3.5 Decay Analysis	The WWIS will have the capability of performing decay analysis of radioactive materials which have been disposed at WIPP. The RADAC software from ORNL will be used for the actual decay analysis. This module will provide selection criteria for input to RADAC such as waste id, waste stream id, shipment number, generator id (within specified time frame), or all WIPP (within specified time frame). Also selected will be options for the four different output files provided by RADAC.	2.6 Decay Analysis	This function downloads the selection criteria, pertinent nuclide information, and output file options to the RADAC software.
28.	3.6.1 Change Log Tracking	Whenever a modification is made, the authorized user will be required to enter a reason. The WWIS system will capture the entire record being modified, the date and time of the modification, the User Id of the person making the modification, and the reason for the modification. Any updates to shipment or data packages will require re-verification of the data.	2.1.3.1 Transmittal 2.2.3.1.Transmittal 2.3.3.1.Transmittal	(NOTE: These SDD sections pertaining to Characterization, Certification and Shipping discuss Change Log Tracking.)
29.	3.6.2 Change Log Reports	There are two reports available to the data administrator in the Change Log module. Selection criteria for generating Change Log reports are date range, user Id and the table from which to report Change Log information. The first report will only list information related to who, when, and why a table/record was modified. The second report will list information related to what was changed.	2.5.3.2.2 Change Log Short Report 2.5.3.2.3 Change Log Long Report	This report will list information related to who made data changes. This report will list information related to what data was changed.
30.	3.7.1 Inventory Data Input and Maintenance	This module provides the capability to upload waste container location data generated from hand-held barcode reader/scanners.	2.4.3.1 Inventory Data Input and Maintenance	This module provides the capability to capture and upload waste container location data generated from hand-held computers/scanners.

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
31.	3.7.1.1 Capture Location Information	The specific requirements dealt with by this function are as follows: Provide the capability to capture storage locations using barcode readers. The reader will be used to scan the barcode label number to get the assembly or container number. Provide the ability to upload waste container location data from the barcode reader. Provide the ability to delete data from the reader that has been uploaded. Provide the ability to add container location data online. Provide the ability to correct location data and keep a Change Log of these corrections.	2.4.3.1 Inventory Data Input and Maintenance	This module provides the capability to capture and upload waste container location data generated from hand-held computers/scanners.

APPENDIX A
REQUIREMENTS MATRIX

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
32.	3.7.1.2 Perform Validations	After data from the barcode reader have been uploaded, this function will perform various verifications and store valid data in the WWIS database while rejecting invalid data. General requirements for this function are as follows: Ensure all containers being loaded into the WWIS system have a location. Verify all locations are valid. Verify that container numbers being loaded into the tracking portion of the WWIS correspond to the container numbers stored in the waste container portion of the WWIS. Generate a report of all records that were rejected, along with the reason they were rejected.	2.4.3.2 Perform Validations	After data from the barcode scanner have been uploaded, this function will perform various validations and store valid data in the WWIS database while rejecting invalid data.
33.	3.7.2 Repackaging	This module provides the capability to track/modify container data to support repackaging of a waste container. This activity may be required when the original container is damaged or contaminated. This module also provides the ability to print barcodes to support the repackaging.	2.4.3.3 Overpacking	This module provides the capability to track/modify container data to support overpacking of a waste container. This activity may be required when the original container is damaged or contaminated. This module also provides the ability to print barcodes to support the repackaging
34.	3.7.3 Reports Barcode Batch Processing Errors Report	This report will list by Container Id, errors that were encountered during the barcode batch processing.	2.4.3.4.1 Barcode Batch Processing Errors Report	This report will list by Container Id, errors that were encountered during the barcode batch processing.

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
35.	3.7.3 Nuclide Report	This report is to list the radionuclides contained in the waste disposed at WIPP at the time that the report is generated and is to include the total activity of individual radionuclides as well as the total repository activity. This report is to be organized by waste type (CH/RH), using selection criteria to be established by the user at request time, such as all nuclides, all nuclides by generator site during a specified period, or all actinides. This report will be an aid to the EPA reporting requirements and will be used to assist WIPP personnel in organizing data requests for input to the decay module as required. This report is to be generated by WIPP personnel as required.	2.4.3.4.2 Nuclide Report	This report is to list the radionuclides contained in the waste disposed at WIPP at the time that the rep is generated and is to include the total activity of individual radionuclides as well as the total repository activity. This report is to be organized by waste type (CH/RH), using selection criteria to be established by the user at request time, such as all nuclides, all nuclides by shipper site during a specified period, or all actinides. This report will be an aid to the EPA reporting requirements and will be used to assist WIPP personnel in organizing data requests for input to the decay module as required. This report is to be generated by WIPP personnel as required.
36.	3.7.3 Waste Emplacement Report	This report is to be generated on an emplacement period basis when all of the containers of the shipment have been emplaced and/or otherwise dispositioned and the data have been input to the WWIS from the barcode reader interface. The data are to be collected by container (for SWBs or TDOPs) or assembly number (for seven packs), and by TRUPACT-II number in the particular shipment. This information will be added to the Operational Log and retained at WIPP for the operational life of the facility.	2.4.3.4.3 Waste Emplacement Report	This report is to be generated on an emplacement period basis when all of the containers of the shipment have been emplaced and/or otherwise dispositioned and the data have been input to the WWIS from the barcode reader interface. The data are to be collected by container (for SWBs or TDOPs) or assembly number (for seven packs), and by TRUPACT-II number in the particular shipment. This information will be added to the Operational Log and retained at WIPP for the operational life of the facility.
37.	3.7.3 Headspace Gas Concentration Report	This report is to contain the average concentration of all headspace analytes. The selection criteria will be by all containers in a room as defined by emplacement location. This report will be generated upon demand.	2.4.3.4.4 Headspace Gas Concentration Report	This report is to contain the average concentration of all headspace analytes. The selection criteria will be by all containers in a room as defined by emplacement location. This report will be generated upon demand.

APPENDIX A
REQUIREMENTS MATRIX

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
38.	3.8 Regulatory Reporting: Biennial Reporting Input Report	This report is to be generated annually and will be arranged by waste type for each generator contributing waste to the WIPP in the previous year. The report will summarize the amount (weight and volume) of the waste received from each generator and will collect all of the EPA hazardous codes contained in the year's shipments. The report will also include the various waste codes to provide cross correlation in the various reporting schemes. The EPA Id of each waste generator will be included along with the IDC (or other local code), the waste matrix code, the TRUCON Code and the WIPP waste stream Id.	2.7 Regulatory Reporting	This function will produce the Nuclide Report and the Biennial Reporting Input Report.
39.	4.1 Performance Requirements	WWIS shall support the maximum number of simultaneous users determined by the database management system license agreement and the operating system license agreement.	NOTE: These requirements will not be provided for by developed software. (Current Oracle license is for 32 concurrent users.)	
40.	4.2 Design Constraints	Design of the WWIS functions will follow the guidelines provided by Microsoft Corporation for developing user interfaces.	NOTE: These requirements will not be provided for by developed software. (The use of Oracle Designer/2000 allows use of templates to ensure consistency in the graphical user interface.)	
41.	4.3.1 Availability	The WWIS shall be available 7 days/week, 24 hours/day except for periodic maintenance.	NOTE: These requirements will not be provided for by developed software. (This must be met by the service agreement with the computer operations organization.)	
42.	4.3.2 Security	WWIS shall control access to the databases and data through passwords.	NOTE: These requirements will not be provided for by developed software. (This is a feature of the Oracle DBMS.)	

APPENDIX A
REQUIREMENTS MATRIX

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
43.	4.3.2 Security	WWIS shall control access to the data at the record level.	NOTE: These requirements will not be provided for by developed software. (This is a feature of the Oracle DBMS.)	
44.	4.4.1 User Interfaces	WWIS will employ a graphical user interface following guidelines mentioned in Section 4.2.	NOTE: These requirements will not be provided for by developed software. (The use of Oracle Designer/2000 allows use of templates to ensure consistency in the graphical user interface.)	
45.	4.4.2 Hardware Interfaces	Client hardware will provide local printing capablities. Local printing will be managed by the client system	NOTE: These requirements will not be provided for by developed software. (This is a feature of the Oracle client software.)	

APPENDIX A
REQUIREMENTS MATRIX

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
46.	4.4.3 Software Interfaces	WWIS shall provide the ability to electronically mail notifications following verification of characterization data, certification of waste, and receipt of shipments.	2.1.3.3 Acceptance / Rejection	Once all verifications have been satisfied, the data package is ready for WIPP personnel to accept the characterized data. Upon review of data by knowledgeable WIPP personnel, if deemed acceptable, an acknowledgement will be sent to the shipper/generator and the User Id of the WIPP person who accepted the data will be stored. An acceptance report will be generated by the WWIS system. Change Log information will be tracked after acceptance of the data by WIPP. If the data package is deemed unacceptable, a reason for the rejection must be supplied by the WIPP person who rejected it and a notification sent to the shipper/generator. A rejection report will be generated by the WWIS system.
			2.2.3.4 Acceptance/Rejection of Certification Data	Once all verifications have been satisfied, the data package is ready for acceptance by WIPP personnel. Upon review of data by knowledgeable WIPP personnel, if deemed acceptable, an acknowledgement will be sent to the shipper/generator and the User Id of the WIPP person who accepted the data package will be stored. An acceptance report will be generated by the WWIS system. Change Log information will be tracked after initial acceptance of the data by WIPP. If the data package is deemed unacceptable, a reason for the rejection must be supplied by the WIPP person who rejected it and a notification sent to the shipper/generator. A rejection report will be generated by the WWIS system.
			2.3.3.3 Acceptance of Shipment	Once all validations and range checks have been satisfied, the shipment is ready for WIPP personnel to accept. Upon review of data by knowledgeable WIPP personnel, if deemed acceptable, an acknowledgement will be sent to the shipper and the User Id of the WIPP person who accepted the shipment will be stored. An acceptance report will be generated by the WWIS system. Change Log information will be tracked after initial acceptance of the data by WIPP. If the shipment is deemed unacceptable, a reason for the rejection must be supplied by the WIPP person who rejected it and a notification sent to the shipper. A rejection report will be generated by the WWIS system.

APPENDIX A
REQUIREMENTS MATRIX

	SRS SECTION	SRS REQUIREMENT	SDD SECTION	SDD DESIGN
47.	4.4.3 Software Interfaces	WWIS shall provide the data structure on the server for the generator/shipper to populate their validated characterization data and their certified waste data.	2.1.3.1 Transmittal 2.2.3.1 Transmittal	The shipper/generator is granted access to the WWIS to electronically transfer characterization data from his/her system to WWIS. The shipper/generator is granted access to the WWIS system to electronically transfer WAC data from his/her system to WWIS.
48.	4.4.4 Communications Interfaces	WWIS network communication shall be based on TCP/IP.	NOTE: These requirements will not be provided for by developed software. (This must be met by the service agreement with the computer operations organization.)	
49.	4.4.4 Communications Interfaces	WWIS shall provide asynchronous communication via high-speed modems.	NOTE: These requirements will not be provided for by developed software. (This must be met by the service agreement with the computer operations organization.)	
50.	4.4.4 Communications Interfaces	WWIS shall provide network access to the server to allow the generator/shipper access as clients via TCP/IP.	NOTE: These requirements will not be provided for by developed software. (This must be met by the service agreement with the computer operations organization.)	
51.			2.5.3.2.1 Reference Tables Report.	These reports will list the contents of selected Reference Tables. NOTE: This was not required in the SRS but was seen as a future need of the customer.

APPENDIX B WWIS Data Dictionary

APPENDIX B
WWIS DATA DICTIONARY

NO	FIELD	UNITS	DEFINITION	FORMAT	LIMITS, EDITS, & RANGE CHECKS	CALCULATED	ENTITY
1.	Aspiration Method	None	Method used for aspirating the container prior to shipment per Appendix 1.3.7 of the TRUPACT-II Safety Analysis Report. Method is to be identified as either Option 1, 2, or 3.	A1	Edit check of either 1, 2, or 3. No Blanks	No	WST_CNTR
2.	Aspiration Period	Days	Time that the container must be aspirated based on the aspiration method selected per Appendix 3.6.11 of the TRUPACT-II Safety Analysis Report	999	Look-up table of container aspiration periods	No	REF_ASPIRATION
3.	Assay Characterization Method	None	Identifies the site-specific approved characterization method(s) or system(s) that was used to identify and quantify the radionuclide masses	A4	Look-up table listing approved methods	No	WC_ASSAYMETHOD
4.	Assay Date	None	The date when the assay was completed at the certification site	Date	None	No	WC_ASSAYMETHOD
5.	Assembly Identification Number	None	A unique number assigned by the shipper to an assembly. The number consists of the 2-letter site identification code followed by the last two digits of the year and the 4-digit package assembly number.	AAYY9999	Unique number Each container in an assembly (e.g. a seven pack) must be of the same shipping category	No	ASSEMBLY
6.	Bore Hole Number	None	Disposal location within the WIPP where a remote handled waste canister is disposed.	A6	None	No	WC_LOC
7.	Characterization Methods	None	Identifies the approved EPA characterization methods or systems that were used to obtain the waste characterization data.	A20	Look-up table of characterization techniques	No	WC_SAMPLE_AMOUNT
8.	Column Height	None	The column height within a room/drift at the WIPP which designates the location within the height of the room/drift where the container is emplaced	9	None	No	WC_LOC
9.	Column Number	None	The column number within a room/drift at the WIPP which designates the location within the width of the room/drift where the container is emplaced	9	None	No	WC_LOC
10.	Comments	None	Data field to be used to provide additional information	A200	None	No	WC_COMMENT
11.	Contact Dose Rate of Container (Beta/Gamma)	mrem/hr	Beta/gamma contact dose rate at the surface of the Type A container	9999999	≤ 200 mrem/hr for CH ≤ 1000 rem/hr for RH	No	WST_CNTR
12.	Contact Dose Rate of Container (Neutron)	mrem/hr	Neutron contact dose rate at the surface of the Type A container	9999999	≤ 270 mrem/hr for RH	No	WST_CNTR
13.	Contact Dose Rate of Container (Total)	mrem/hr	Total contact dose rate at the surface of the Type A container	9999999	≤ 200 mrem/hr for CH ≤ 1000 rem/hr for RH	Yes	
14.	Contact Dose Rate of Package (Total at Surface)	mrem/hr	Total contact dose rate at the surface of the Type B packaging (TRUPACT-II and RH Cask)	9999999	≤ 200 mrem/hr	No	

APPENDIX B
WWIS DATA DICTIONARY

NO	FIELD	UNITS	DEFINITION	FORMAT	LIMITS, EDITS, & RANGE CHECKS	CALCULATED	ENTITY
15.	Contact Phone	None	Phone number of the shipper technical contact. Number to be listed is to include area code + prefix + number	A12	None	No	REF_USER
16.	Container Closure Date	None	Date the container was closed	Date	None	No	WST_CNTR
17.	Container Identification Number	None	A unique identification number assigned to each container	AA99999999999	Unique number	No	WST_CNTR
18.	Container Liner Punctured	None	Identifies whether the container liner was punctured (if applicable)	Logical (yes/no)	If field 16 had identified the use of a liner, reject if "no"	No	WST_CNTR
19.	Container Liner Type	None	Identifies the type of container liner (if applicable)	A3	Look-up table of standard liners. Look-up table is also to contain the option of "no liner".	No	WST_CNTR
20.	Container Type Code	None	A 3-digit container type code	A3	Look-up table of approved container type codes 001 55-gallon drum 002 SWB 003 TDOP 004 Pipe component (6") 005 Pipe component (12") 101 RH-TRU 72-B canister 102 RH-TRU drum canister	No	WST_CNTR
21.	Decay Heat	Watts	The rate of deposition of thermal energy within the container associated with the decay of radionuclides. The terms "decay heat" and "thermal power" are synonymous.	9.99E+99	None	Yes	WST_CNTR
22.	Decay Heat of Package	Watts	Sum of decay heats of containers within the package	9.99E+99	≤ 40 watts per TRUPACT-II package	Yes	PACKAGING
23.	Decay Heat Uncertainty	Watts	Uncertainty in the decay heat	9.99E+99	None	Yes	WST_CNTR
24.	Decay Heat Uncertainty of Package	Watts	Square root of the sum of the squares of the container decay heat uncertainties	9.99E+99	None	Yes	PACKAGING
25.	Decay Heat (Maximum)	Watts	Sum of the decay heat and decay heat uncertainty for a container	9.99E+99	Look-up table containing decay heat limits for each shipping category	Yes	REF_SHIP_CAT
26.	Disposal Date	None	The date when the container is emplaced in the underground of the WIPP	Date	Date equal to or later than the shipment receipt date	No	WST_CNTR
27.	Dose Rate of Package at 1 Meter	mrem/hr	Total dose rate at 1 meter from the surface of the Type B packaging (required to assign a transport index)	9999999	None	No	PACKAGING
28.	Dose Rate of Package at 2 Meters	mrem/hr	Total dose rate at 2 meters from the surface of the Type B packaging (TRUPACT-II and RH Cask)	9999999	≤ 10 mrem/hr	No	PACKAGING
29.	DOT Description	None	U.S. Department of Transportation description for the Uniform Hazardous Waste Manifest	Memo	None	No	SHIPMENT

APPENDIX B
WWIS DATA DICTIONARY

NO	FIELD	UNITS	DEFINITION	FORMAT	LIMITS, EDITS, & RANGE CHECKS	CALCULATED	ENTITY
30.	Drift Number	None	The geotechnical location within the WIPP where a container is emplaced	A6	None	No	WC_LOC
31.	EPA ID	None	U.S. Environmental Protection Agency's number for the waste site having responsibility for shipment of the waste	A15	Look-up table containing the corresponding name and address of the generator	No	REF_SITE
32.	Filter Install Date	None	The date the filter was installed in the container	Date	None	No	WST_CNTR
33.	Filter Model	None	Vendor model number of the filter used to vent a container	A6	Look-up table listing approved filters	No	WST_CNTR
34.	Gas Generation Completion Date	None	The date of test completion for a container shipping category	Date	None	No	WST_CNTR
35.	Gas Generation Rate - Measured $H_2 + CH_4$	moles/s	Measured hydrogen and methane gas generation rate for a container shipping category	9.9E+99	Look-up table containing hydrogen and methane gas generation rate limits as a function of packaging layers, content code, and radionuclide activity	No	WST_CNTR
36.	Gas Generation Rate - Measured Total	moles/s	Measured total gas generation rate for a container shipping category	9.9E+99	Look-up table containing total gas generation rate limits as a function of packaging layers, content code, and radionuclide activity	No	WST_CNTR
37.	Hazardous ID Code	None	Hazardous waste EPA codes listed for the container. This is a multiple occurring field.	A4	Look-up table listing the codes	No	WC_HAZ_CODE
38.	Headspace Gas Innermost Layer: Analyte Name	None	The element, ion, or compound an analysis seeks to determine; the element of interest	A20	Look-up table containing the 29 targeted analytes (this is a multiple occurring data field)	No	WC_SAMPLE_AMOUNT
39.	Headspace Gas Innermost Layer: Characterization Method	None	Identifies the characterization method or system that was used to obtain the innermost layer gas data.	A30	Look-up table listing approved methods	No	WC_SAMPLE_AMOUNT
40.	Headspace Gas Innermost Layer: Date Analyzed	None	Date gas of innermost layer was analyzed	Date	≤ 34 days from date sampled	No	WC_SAMPLE_AMOUNT
41.	Headspace Gas Innermost Layer: Date Sampled	None	Date gas of innermost layer was sampled	Date	None	No	WC_SAMPLE
42.	Headspace Gas Innermost Layer: Flammable Gas Concentrations	Volume Percent	Concentrations of flammable gases in the innermost layer including but not limited to H_2 and CH_4	999	≤ 5% ($H_2 + CH_4$)	No	WC_SAMPLE_AMOUNT
43.	Headspace Gas Innermost Layer: Identification	None	Innermost layers of confinement must be consecutively numbered and labeled starting with 1 as they are sampled and removed from the waste container during visual examination. The sample collected from each innermost layer of confinement must be referenced to that particular	99	None	No	WC_SAMPLE

APPENDIX B
WWIS DATA DICTIONARY

NO	FIELD	UNITS	DEFINITION	FORMAT	LIMITS, EDITS, & RANGE CHECKS	CALCULATED	ENTITY
			inner most layer of confinement and to the waste container.				
44.	Headspace Gas Innermost Layer: VOC Concentrations	ppmv	Concentrations of the 29 target VOCs in the innermost layer	999999	This is a multiple occurring data field	No	WC_SAMPLE_ AMOUNT
45.	Headspace Gas: Analyte Name	None	The element, ion, or compound an analysis seeks to determine; the element of interest. This is a multiple occurring field.	A20	Look-up table containing the 29 targeted VOC analytes	No	WC_SAMPLE_ AMOUNT
46.	Headspace Gas: Characterization Method	None	Identifies the characterization method or system used to obtain the headspace gas data.	A30	Look-up table listing approved methods	No	WC_SAMPLE_ AMOUNT
47.	Headspace Gas: Date Analyzed	None	Date headspace gas was analyzed	Date	≤ 34 days after sampling date	No	WC_SAMPLE_ AMOUNT
48.	Headspace Gas: Date Sampled	None	Date headspace gas was sampled	Date	None	No	WC_SAMPLE
49.	Headspace Gas: Flammable Gas Concentrations	Volume Percent	Concentrations of H_2 plus CH_4 flammable gases in the headspace	A20	≤ 5% (H_2 + CH_4)	No	WC_SAMPLE_ AMOUNT
50.	Headspace Gas: Total Flammable VOC Concentration	ppmv	Total concentration of target flammable VOCs in the headspace.	999999	≤ 500 ppm total flammable VOCs	Yes	WC_SAMPLE_ AMOUNT
51.	Headspace Gas: VOC Concentrations	ppmv	Concentrations of the 29 target VOCs in the headspace. This is a multiple occurring field.	999999	No limits for the target VOCs except for the following: carbon tetrachoride ≤ 7510 chloroform ≤ 6325 1,1-dichloroethene ≤ 28750 1,2-dichloroethane ≤ 9100 methylene chloride≤368500	Yes	WC_SAMPLE_ AMOUNT
52.	ICV Closure Date	None	The date when the inner containment vessel was closed	Date	None	No	PACKAGING
53.	Item Description Code	None	A site specific numerical code applied to individual waste forms to identify their source	A4	Look-up table listing approved item description codes taken from the site's certification plan	No	WST_CNTR
54.	Layers of Packaging	None	Identifies the number of layers of plastic confinement within a container	9	None	No	WC_SAMPLE
55.	Manifest Document Number	None	Identifies the manifest number assigned to the waste shipment	A5	None	No	SHIPMENT
56.	Packaging Serial Number	None	The TRUPACT-II , cask, or other Type B shipping container number	A3	None	No	PACKAGING
57.	Panel Number	None	The panel number in which the container is disposed	A2	None	No	WC_LOC
58.	PCB Concentration	ppm	The concentration of polychlorinated biphenyls	9999	≤ 50 ppm	No	WST_CNTR

APPENDIX B
WWIS DATA DICTIONARY

NO	FIELD	UNITS	DEFINITION	FORMAT	LIMITS, EDITS, & RANGE CHECKS	CALCULATED	ENTITY
			(PCBs) in the container		No blanks		
59.	Plutonium-239 Equivalent Activity	PE-Ci	The plutonium-239 equivalent activity per container	9.9E+99	≤ 80 PE-Ci per drum ≤ 130 PE-Ci per SWB ≤ 1000 PE-Ci per canister	Yes	WST_CNTR
60.	Plutonium-239 FGE per Type B RH-TRU 72-B Waste Shipping Package (Total)	FGE	The Plutonium-239 FGE plus the Plutonium-239 FGE uncertainty per RH-TRU 72-B waste shipping package	9.9E+99	≤ 325 FGE	Yes	
61.	Plutonium-239 Fissile Gram Equivalent	FGE	The Plutonium-239 fissile gram equivalent per container	9.9E+99	≤ 200 FGE per drum ≤ 325 FGE per SWB ≤ 325 FGE per canister ≤ 200 FGE per pipe overpack package	Yes	WST_CNTR
62.	Plutonium-239 Fissile Gram Equivalent (Total)	FGE	The Plutonium-239 FGE plus twice the Plutonium-239 FGE uncertainty per container	9.9E+99	≤ 200 FGE per drum ≤ 325 FGE per SWB ≤ 325 FGE per canister ≤ 200 FGE per pipe overpack package	Yes	
63.	Plutonium-239 Fissile Gram Equivalent per Type B Package	FGE	Sum of the Plutonium-239 fissile gram equivalent per container per Type B package	9.9E+99	≤ 325 FGE ≤ 2800 FGE for pipe overpack packages	Yes	
64.	Plutonium-239 Fissile Gram Equivalent per Type B Package for CH-TRU (Total)	FGE	The Plutonium-239 FGE plus twice the Plutonium-239 FGE uncertainty per Type B package for CH-TRU	9.9E+99	≤ 325 FGE ≤ 2800 FGE for pipe overpack packages	Yes	
65.	Plutonium-239 Fissile Gram Equivalent Uncertainty	FGE	The Plutonium-239 fissile gram equivalent uncertainty per container	9.9E+99	None	Yes	WST_CNTR
66.	Plutonium-239 Fissile Gram Equivalent Uncertainty per Type B Package	FGE	Square root of the sum of the squares of the Plutonium-239 fissile gram equivalent uncertainties per container per Type B package	9.9E+99	None	Yes	
67.	Radionuclide Activity	Curies	Activity of the individual radionuclides	9.9E+99	None	No	WC_NUCLIDE
68.	Radionuclide Activity Uncertainty	Curies	Uncertainty in the activity of the individual radionuclides	9.9E+99	None	No	WC_NUCLIDE
69.	Radionuclide Activity Uncertainty (Total)	Curies	Uncertainty in the summation of activities of the individual radionuclides within a container	9.9E+99	None	Yes	
70.	Radionuclide Highway Route Controlled Quantity	None	A highway route controlled quantity is that quantity of normal form material in a type B package which exceeds 3000 times the A2 value of the radionuclides as specified in 49 CFR 173.443 or 30,000 curies, whichever is least	Logical (yes/no)	yes if > 1 no if ≤ 1	Yes	WST_CNTR
71.	Radionuclide Mass	Grams	Mass of the individual radionuclides	9.9E+99	None	Yes	WC_NUCLIDE

APPENDIX B
WWIS DATA DICTIONARY

NO	FIELD	UNITS	DEFINITION	FORMAT	LIMITS, EDITS, & RANGE CHECKS	CALCULATED	ENTITY
72.	Radionuclide Mass Uncertainty	Grams	Uncertainty in the mass of the individual radionuclides	9.9E+99	None	Yes	WC_NUCLIDE
73.	Radionuclide Reportable Quantity	None	A reportable quantity is that quantity of material in a type B package which equals or exceeds the quantity listed in the Appendix to 49 CFR 172.101	Logical (yes/no)	None	Yes	WST_CNTR
74.	Radionuclide Symbol	None	The radionuclide the analysis seeks to determine	A7	Look-up table containing the predominant radionuclides (this is a multiple occurring data field)	No	WC_NUCLIDE
75.	Reporting Flag	None	Designator which is used by the analytical laboratory to identify detection levels of the various analytes within a sample	A2	Coded to indicate appropriate flag per QAPP requirements	No	WC_SAMPLE_ AMOUNT
76.	Room Number	None	The room number within a panel in which the container is emplaced	A1	None	No	WC_LOC
77.	Row Number	None	The row number within a room/drift at the WIPP which designates the location within the length of the room/drift where the container is emplaced	A4	None	No	WC_LOC
78.	Shipment Certification Date	None	The date when the shipment was certified for transport to the WIPP	Date	Shipment certification date ≥ WAC certification date	No	SHIPMENT
79.	Shipment Number	None	Number assigned to the shipment	A12	Unique	No	SHIPMENT
80.	Shipment Receipt Date	None	The date the waste shipment was received at the WIPP	Date	Shipment receipt date ≥ shipment send date	No	SHIPMENT
81.	Shipment Send Date	None	The date the waste shipment left the shipper site (to be entered at the time of receipt at the WIPP using date on manifest)	Date	Shipment send date ≥ shipment certification date	No	SHIPMENT
82.	Shipping Category	None	A category under which a content code is shipped	A8	All containers within a package must be of the same shipping category	No	WST_CNTR
83.	Site Address	None	Address of the waste site having responsibility for shipment of the waste	A50	None	No	REF_SITE
84.	Site Name	None	Name of the site which shipped the waste	A30	None	No	REF_SITE
85.	Solid Waste Metals: Analyte Name	None	The element, ion, or compound an analysis seeks to determine; the element of interest	A50	Look-up table of target solid waste metal analytes (this is a multiple occurring field)	No	WC_SAMPLE_ AMOUNT
86.	Solid Waste Metals: Concentration	mg/kg	The concentration of the solid waste metal analytes the analysis seeks to determine	9.99E+99	None	No	WC_SAMPLE_ AMOUNT
87.	Solid Waste Metals: Date Analyzed	None	The date solid waste metals were analyzed	Date	≤ 180 days after sampling date ≤ 28 days for mercury	No	WC_SAMPLE_ AMOUNT

APPENDIX B
WWIS DATA DICTIONARY

NO	FIELD	UNITS	DEFINITION	FORMAT	LIMITS, EDITS, & RANGE CHECKS	CALCULATED	ENTITY
88.	Solid Waste Metals: Date Sampled	None	The date solid waste metals were sampled	Date	None	No	WC_SAMPLE
89.	Solid Waste Semi-VOC: Analyte Name	None	The element, ion, or compound an analysis seeks to determine; the element of interest	A50	Look-up table of target solid waste semi-VOC analytes (this is a multiple occurring field)	No	WC_SAMPLE_ AMOUNT
90.	Solid Waste Semi-VOC: Concentration	mg/kg	The concentration of the solid waste semi-VOC analytes the analysis seeks to determine	9.99E+99	Look-up table of target solid waste semi-VOC analytes	No	WC_SAMPLE_ AMOUNT
91.	Solid Waste Semi-VOC: Date Analyzed	None	The date solid waste semi-VOCs were analyzed	Date	≤ 180 days after sampling date	No	WC_SAMPLE_ AMOUNT
92.	Solid Waste Semi-VOC: Date Sampled	None	The date solid waste semi-VOCs were sampled	Date	None	No	WC_SAMPLE
93.	Solid Waste VOC: Analyte Name	None	The element, ion, or compound an analysis seeks to determine; the element of interest	A50	Look-up table of target solid waste VOC analytes (this is a multiple occurring field)	No	WC_SAMPLE_ AMOUNT
94.	Solid Waste VOC: Concentration	mg/kg	The concentration of the solid waste VOC analytes the analysis seeks to determine	9.99E+99	Look-up table of target solid waste VOC analytes	No	WC_SAMPLE_ AMOUNT
95.	Solid Waste VOC: Date Analyzed	None	The date solid waste VOCs were analyzed	Date	≤ 54 days after sampling date	No	WC_SAMPLE_ AMOUNT
96.	Solid Waste VOC: Date Sampled	None	The date solid waste VOCs were sampled	Date	None	No	WC_SAMPLE
97.	Surface Contamination of Container (Alpha)	dpm/cm^2	The removable alpha emitting radionuclide surface contamination on waste containers	9.9E+99	≤ 20 $dpm/100\ cm^2$ (alpha)	No	WST_CNTR
98.	Surface Contamination of Container (Beta/Gamma)	dpm/cm^2	The removable beta/gamma emitting radionuclide surface contamination on waste containers	9.99E+99	≤ 200 $dpm/100\ cm^2$ (beta/gamma)	No	WST_CNTR
99.	Technical Contact	None	Name of the person at the shipper site who is the technical contact for the site. Information is to be recorded based on the last name, first name, and middle initial (if available)	A20	None	No	REF_SITE
100.	Tentatively Identified Compounds (TICs): Date Analyzed	None	The date the TICs were analyzed	Date	See limits in fields 36, 77, 80, and 83	No	WC_SAMPLE_ AMOUNT
101.	Tentatively Identified Compounds (TICs): Date Sampled	None	The date the TICs were sampled	Date	None	No	WC_SAMPLE
102.	Tentatively Identified Compounds: Analyte Name	None	Compounds not intiailly anticipated to be in the waste stream but subsequently identified in either the headspace gas or solid waste analysis	A30	Look-up table of TICs identified in 40 CFR 264, Appendix IX	No	WC_SAMPLE_ AMOUNT
103.	Tentatively Identified Compounds: Concentration (mg/kg)	mg/kg	If applicable, the concentrations of compounds not initially anticipated to be in the waste stream but subsequently identified in either the headspace gas or solid waste analysis	9.99E+99	None	No	WC_SAMPLE_ AMOUNT

APPENDIX B
WWIS DATA DICTIONARY

NO	FIELD	UNITS	DEFINITION	FORMAT	LIMITS, EDITS, & RANGE CHECKS	CALCULATED	ENTITY
104.	Tentatively Identified Compounds: Concentration (ppmv)	ppmv	If applicable, the concentrations of compounds not initially anticipated to be in the waste stream but subsequently identified in either the headspace gas or solid waste analysis	9.99E+99	None	No	WC_SAMPLE_ AMOUNT
105.	Transporter EPA ID	None	U.S. Environmental Protection Agency identification number for the transporter of the waste shipment	A15	Look-up table containing the corresponding name and address of the transporter	No	REF_TRANSP ORTER
106.	Transporter Name	None	The name of the transporter of the waste shipment	A25	None	No	SHIPMENT
107.	TRU Alpha Activity	Curies	Summation of the alpha activities of the transuranic (TRU) isotopes within a container	9.9E+99	None	Yes	WST_CNTR
108.	TRU Alpha Activity Concentration	Curies per gram	Summation of the alpha activities of the transuranic isotopes divided by the mass of the waste within a container (excluding the masses of the container, liner [if applicable], and shielding [if applicable])	9.9E+99	> 100 nCi/gram	Yes	WST_CNTR
109.	TRU Alpha Activity Concentration Uncertainty	Curies per gram	Uncertainty in the TRU waste alpha activity concentration	9.9E+99	None		WST_CNTR
110.	TRU Alpha Activity Uncertainty	Curies	Uncertainty in the TRU waste alpha activity	9.9E+99	None	Yes	WST_CNTR
111.	TRUCON Content Code	None	The TRUCON content code which describes the contents of the container based on the site Item Description Code.	A6	Look-up table of approved content codes	No	WST_CNTR
112.	TRUPACT-II OCA Lid Number	None	The TRUPACT-II OCA lid number	A8	None	No	PACKAGING
113.	Vehicle Type	None	The type of vehicle used to transport the waste.	A1	Look-up table containing either "R" for railcar or "T" for truck	No	SHIPMENT
114.	Vent/Puncture Date	None	The date when the container was vented and, if applicable, the liner punctured	Date	None	No	WST_CNTR
115.	WAC Certification Date	None	The date when the certifying official signed the certification statement for the container	Date	None	No	WST_CNTR
116.	WAC Certification Site	None	The site where the container was certified shall be identified by the 2-character site code as in Table B-3 of the WIPP WAC	A2	Look-up table of site identification codes	No	WST_CNTR
117.	WAC Exception Number	None	A number granted to the shipper for an exception to the WAC. The number consists of a 2-character site code plus the last two numbers of the year the request was made plus a sequential number beginning with one each year.	AAYYXXX	Look-up table containing approved WAC exception numbers	No	REF_WAC_EX CEPT
118.	WAC Revision Number	None	Revision number of the WIPP-WAC to which the waste was certified	A2	≥ Revision 4	No	WST_CNTR

APPENDIX B
WWIS DATA DICTIONARY

NO	FIELD	UNITS	DEFINITION	FORMAT	LIMITS, EDITS, & RANGE CHECKS	CALCULATED	ENTITY
119.	Waste Container Fill Factor	Percentage	Estimated percentage of the waste container volume occupied by the waste (zero percent is interpreted as dunnage)	999	Lower bound = 0 Upper bound = 100	No	WST_CNTR
120.	Waste Handling Code	None	The code is "CH" for contact-handled TRU waste or "RH" for remote-handled TRU waste	A2	None	No	WST_CNTR
121.	Waste Material Parameters	None	Waste materials having the potential of impacting performance assessment	A40	Look-up table of waste material parameters	No	WC_MAT_PARM
122.	Waste Matrix Code	None	Numerical codes used to classify mixed waste at DOE facilities	A4	Look-up table of waste matrix codes	No	WST_CNTR
123.	Waste Matrix Code Date	None	The date the site Project review of the waste matrix code has been completed	Date	None	No	REF_MATRIX_CODE_IDC_MTX
124.	Waste Matrix Code Group	None	The group identification taken from the Baseline Inventory Report	A2	None	No	REF_MATRIX_CODE
125.	Waste Stream MWIR ID	None	The waste stream MWIR identification number	A6	None	No	WST_CNTR
126.	Waste Stream Profile Form Number	None	The waste stream profile form number	9999	Look-up table of approved waste stream profile form numbers	No	WST_CNTR
127.	Waste Stream WIPP ID	None	The waste stream WIPP identification number	A6	None	No	WST_CNTR
128.	Waste Type Code	None	The code is "TRU" for non-mixed waste and "MTRU" for mixed waste	A4	None	No	WST_CNTR
129.	Weight (empty container, liner, and shielding)	kg	The weight of the empty container including liner & shielding if applicable	999999.9	None	No	REF_CONTAINER_TYPE
130.	Weight (Gross)	kg	The gross weight of a container	999999.9	≤ 1000 lbs per drum ≤ 4000 lbs per SWB ≤ 6450 lbs per TDOP ≤ 8000 lbs per canister	No	WST_CNTR
131.	Weight of a TRUPACT-II Shipment	kg	The weight of the TRUPACT-II packages including their payloads per railcar or truck	999999.9	The sum of the weights of the TRUPACT-II packages (unique for each serial number) including their payloads per railcar or truck	Yes	
132.	Weight of Payload Assembly	kg	The weight of a seven pack payload assembly	999999.9	Equal to the sum of the gross weights of the seven drums contained in the payload assembly	Yes	ASSEMBLIES
133.	Weight of TRUPACT-II	kg	The weight of a TRUPACT-II package (unique per serial number) including its payload	999999.9	The sum of the weights of the TRUPACT-II (using a look-up table of TRUPACT-II weights per serial number) and the payload.	Yes	REF_PACKAGING

APPENDIX B
WWIS DATA DICTIONARY

NO	FIELD	UNITS	DEFINITION	FORMAT	LIMITS, EDITS, & RANGE CHECKS	CALCULATED	ENTITY
134.	Weight of Waste	kg	The weight of the waste inside a container	999999.9	None	Yes	WST_CNTR
135.	Weight of Waste Material Parameters	kg	The estimated weight of the waste material parameters	999999.9	Sum of the estimated waste material parameter weights should equal the weight of the waste	Yes	WC_MAT_PARM
136.	Weight of Waste Uncertainty	kg	The uncertainty in the weight of the waste inside a container	999999.9	None	Yes	WST_CNTR
137.	Weight Uncertainty (empty container, liner, and shielding)	kg	The uncertainty in the weight of the empty container including liner & shielding if applicable	999999.9	None	No	REF_CONTAINER_TYPE
138.	Weight Uncertainty (Gross)	kg	The uncertainty in the gross weight of a container	999999.9	None	No	WST_CNTR
139.	Event Date & Time		Date & time stamp for any data changes	Date/time			ADMIN_EVENT_LOG
140.	Table Name		Name of the table that was modified.				ADMIN_EVENT_LOG
141.	Key Value		Primary Key to the table that was changed.				ADMIN_EVENT_LOG
142.	Old Value		Value that was changed in a table				ADMIN_EVENT_LOG
143.	Event Comments		Any time a change is made, a reason must be given.				ADMIN_EVENT_LOG
144.	Change Type		Type of change that was made to a table.			Change Delete Inactive	ADMIN_EVENT_LOG
145.	User Id		Computer identification of the WWIS user.				ADMIN_EVENT_LOG
146.	Insert User Id		Computer identification of the WWIS user that inserted that created the initial data record.				all tables
147.	Insert Date		Date that the initial data record was inserted into the WWIS.	Date			all tables
148.	Failure Reason		Reason that the data failed the validation checks.				BAD_XXX tables
149.	Expire Date		Date that this data record was (will be) no longer valid except for historical purposes.	Date			REF_XXX tables
150.	Reason		The reason that the data record was modified.				all tables

APPENDIX C ENTITY RELATIONSHIP DIAGRAMS

Diagram Name : SDD_CHARZ
Title : WIPP Waste Information System - Container data
Date last modified : 14 June 1996 Time last modified : 14:55:3

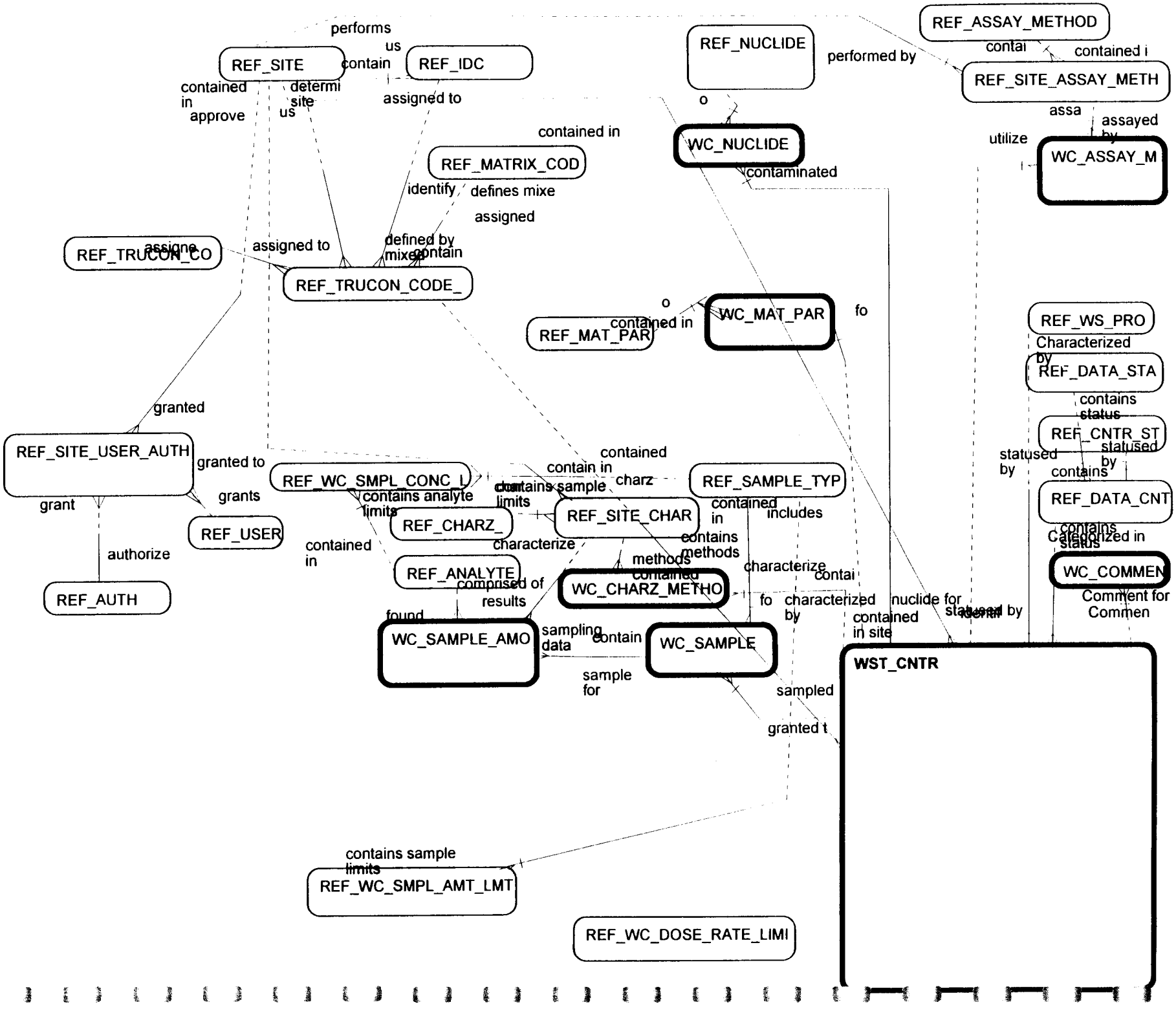

REF_SITE
REF_IDC
REF_NUCLIDE
REF_ASSAY_METHOD
REF_SITE_ASSAY_METH
WC_NUCLIDE
WC_ASSAY_M
REF_MATRIX_COD
REF_TRUCON_CO
REF_TRUCON_CODE_
REF_MAT_PAR
WC_MAT_PAR
REF_WS_PRO
REF_DATA_STA
REF_CNTR_ST
REF_DATA_CNT
WC_COMMEN
REF_SITE_USER_AUTH
REF_USER
REF_AUTH
REF_WC_SMPL_CONC_L
REF_CHARZ_
REF_ANALYTE
REF_SITE_CHAR
REF_SAMPLE_TYP
WC_CHARZ_METHO
WC_SAMPLE_AMO
WC_SAMPLE
WST_CNTR
REF_WC_SMPL_AMT_LMT
REF_WC_DOSE_RATE_LIMI
performs
contain
assigned to
contained in
approve
determi
site
us
identify
defines mixe
assigned
defined by
mixed
contain
assigne
granted
granted to
grants
grant
authorize
contained in
contains analyte
limits
contains sample
limits
contain in
charz
characterize
methods
contained
comprised of
results
found
sampling
data
contain
sample
for
sampled
granted t
contained
in
includes
contains
methods
characterize
contai
fo
characterized
by
contained
in site
nuclide for
statused by
identif
performed by
contai
contained i
assa
assayed
by
utilize
contaminated
o
fo
Characterized
by
contains
status
statused
by
statused
by
contains
Categorized in
Comment for
Commen
contains sample
limits

Diagram Name : SDD_CERT
Title : WIPP Waste Information System - Container data
Date last modified : 14 June 1996 Time last modified : 15:03:2

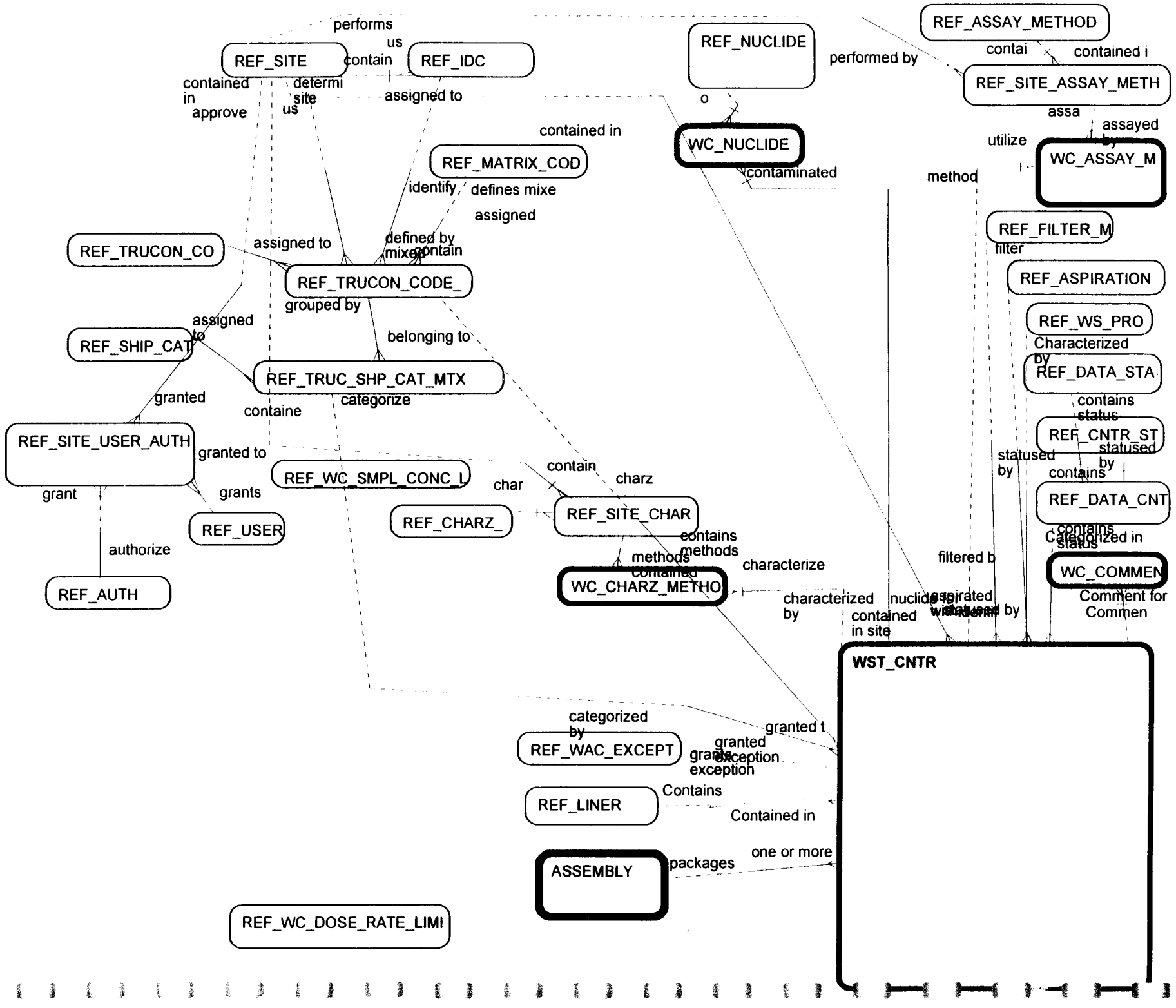

REF_SITE
REF_IDC
REF_NUCLIDE
REF_ASSAY_METHOD
REF_SITE_ASSAY_METH
WC_NUCLIDE
WC_ASSAY_M
REF_MATRIX_COD
REF_FILTER_M
REF_ASPIRATION
REF_WS_PRO
REF_DATA_STA
REF_CNTR_ST
REF_DATA_CNT
WC_COMMEN
REF_TRUCON_CO
REF_TRUCON_CODE_
REF_SHIP_CAT
REF_TRUC_SHP_CAT_MTX
REF_SITE_USER_AUTH
REF_WC_SMPL_CONC_L
REF_USER
REF_AUTH
REF_CHARZ_
REF_SITE_CHAR
WC_CHARZ_METHO
WST_CNTR
REF_WAC_EXCEPT
REF_LINER
ASSEMBLY
REF_WC_DOSE_RATE_LIMI
performs
us
contain
contained in
determi
site
us
approve
assigned to
contained in
identify
defines mixe
assigned
defined by
mixes
contain
assigned to
grouped by
belonging to
assigned to
granted
containe
categorize
granted to
grant
grants
authorize
contain
char
charz
contains
methods
methods
contained
characterize
characterized by
contained in site
performed by
contai
contained i
assa
assayed by
utilize
method
filter
Characterized by
contains
status
statused by
statused by
contains
Categorized in
status
filtered b
nuclide
aspirated
by
Comment for Commen
o
contaminated
categorized by
granted t
granted exception
grants exception
Contains
Contained in
one or more
packages

Diagram Name : SDD_SHIP
Title : WIPP Waste Information System - Container data
Date last modified : 14 June 1996 Time last modified : 15:10:3

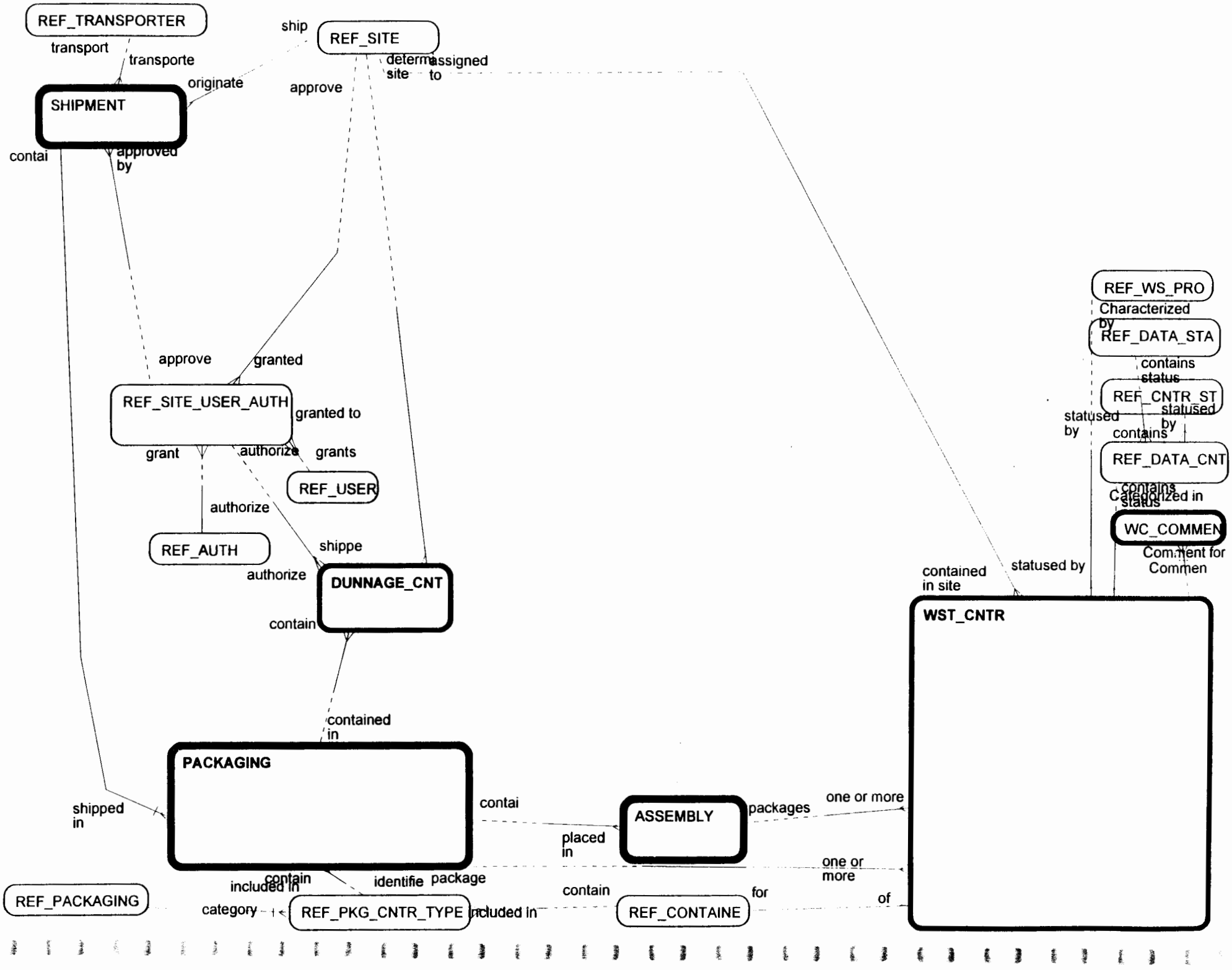
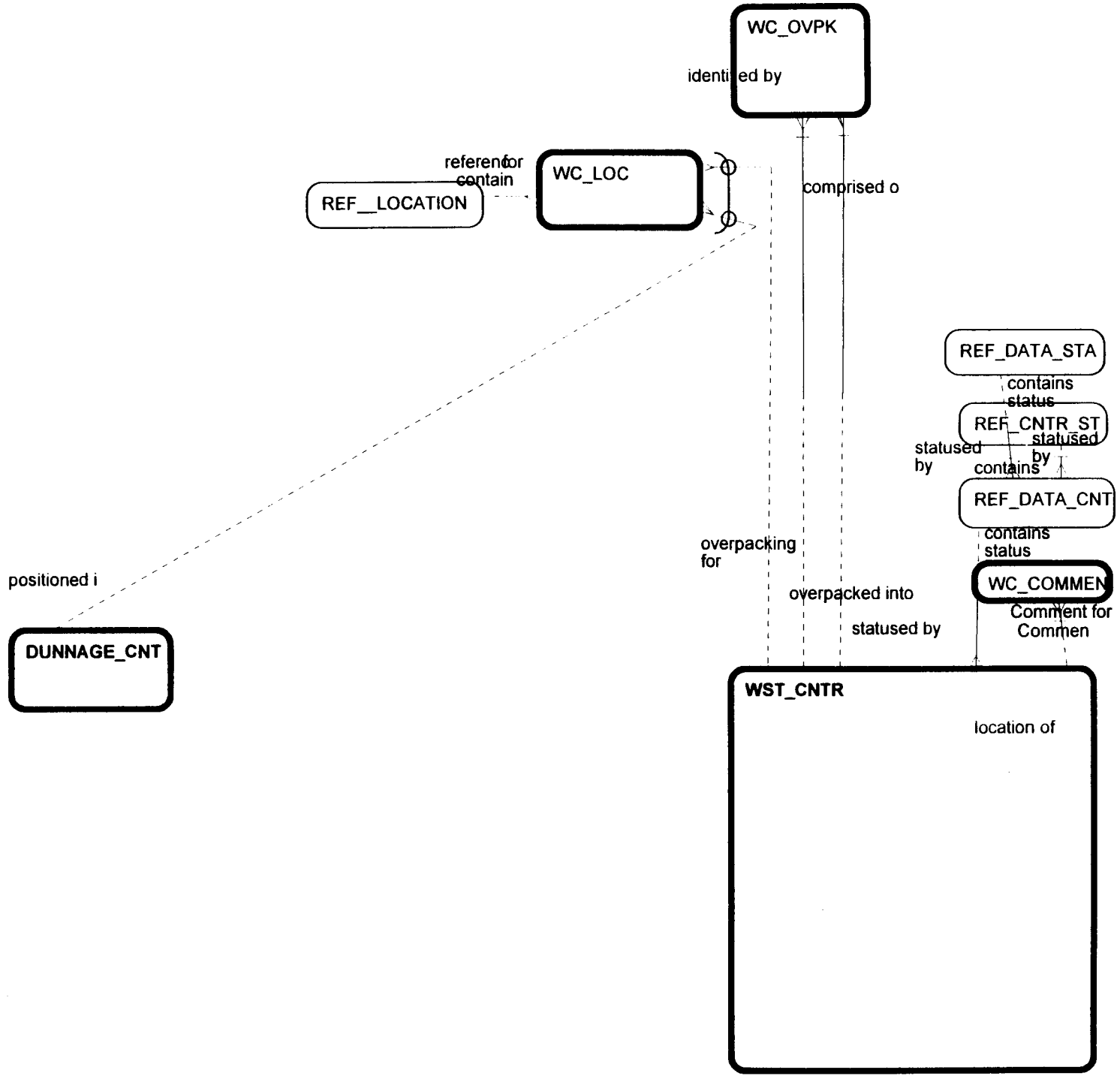

REF_TRANSPORTER
transport
transporte
ship
REF_SITE
determ
site
assigned
to
originate
approve
SHIPMENT
contai
approved
by
REF_WS_PRO
Characterized
by
REF_DATA_STA
contains
status
REF_CNTR_ST
statused
by
statused
by
contains
REF_DATA_CNT
contains
status
Categorized in
WC_COMMEN
Comment for
Commen
approve
granted
REF_SITE_USER_AUTH
granted to
grant
authorize
grants
REF_USER
authorize
REF_AUTH
shippe
authorize
DUNNAGE_CNT
contain
contained
in site
statused by
WST_CNTR
contained
in
PACKAGING
shipped
in
contai
ASSEMBLY
packages
one or more
placed
in
one or
more
contain
included in
identifie
package
REF_PACKAGING
category
REF_PKG_CNTR_TYPE
included in
contain
REF_CONTAINE
for
of

Diagram Name : SDD_DISP
Title : WIPP Waste Information System - Container data
Date last modified : 14 June 1996 Time last modified : 15:13:4


WC_OVPK
identified by
referenced for
contain
WC_LOC
REF__LOCATION
comprised o
REF_DATA_STA
contains
status
REF_CNTR_ST
statused
by
statused
by
contains
REF_DATA_CNT
contains
status
overpacking
for
WC_COMMEN
Comment for
Commen
overpacked into
statused by
positioned i
DUNNAGE_CNT
WST_CNTR
location of

APPENDIX D DATA STRUCTURES

Designer/2000

Report : TABLE DEFINITION
Filename :
Run by : SPH
Report Date : 29-JUN-96 08:01am
Total Pages : 94

Parameter Values

Application System : WWIS
Version : 1
Tab/View/Snap Name : %
Oracle database :
Diagram :
Includes
  Tables : True
  Views : False
  Snapshots : False
  Column Details : False
  Impl. Details : False

Tables Created

  On/After :
  On/Before : 29-JUN-96

and

Tables Changed

  On/After :
  On/Before : 29-JUN-96

Table Name : ADMIN_EVENT_LOGS Alias : ADM_EV_L Display Title : Admin Event Logs

Column Summary

Col. Seq	Column	Nulls ?	Type
1	EVENT_DATE_TIME	NOT NULL	DATE
2	TABLE_NAME	NOT NULL	VARCHAR2 (30)
3	KEY_VALUE	NOT NULL	VARCHAR2 (250)
4	OLD_VALUE	NOT NULL	VARCHAR2 (250)
5	EVENT_COMMENTS	NOT NULL	VARCHAR2 (250)
6	CHANGE_TYPE	NOT NULL	VARCHAR2 (6)
7	USER_ID	NOT NULL	VARCHAR2 (30)

Primary Key

Name	Column
ADM_EV_L_PK	EVENT_DATE_TIME
ADM_EV_L_PK	TABLE_NAME
ADM_EV_L_PK	KEY_VALUE

Table Name : ASSEMBLIES Alias : ASSE Display Title : Assemblies

Column Summary

Col. Seq	Column	Nulls ?	Type
1	ASSEMBLY_ID	NOT NULL	VARCHAR2 (8)
2	PACKAGING_NUM	NOT NULL	VARCHAR2 (7)
3	SHIPMENT_NUM	NOT NULL	VARCHAR2 (12)
4	PAYLOAD_WEIGHT	NOT NULL	NUMBER (7, 2)
5	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
6	INSERT_DATE	NOT NULL	DATE

Primary Key

Name	Column
ASSE_PK	ASSEMBLY_ID

Foreign Keys

ASSE_SPKG_FK

SHIPMENT_NUM references PACKAGING.SHIPMENT_NUM
PACKAGING_NUM references PACKAGING.PACKAGING_NUM

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
ASSE_SPKG_FK_I	1	SHIPMENT_NUM	
ASSE_SPKG_FK_I	2	PACKAGING_NUM	

Table Name : BAD_ASSAY_METHODS Alias : BAD_WASYM Display Title : Bad Assay Methods

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	RADIO_ASSAY_METHOD	NOT NULL	VARCHAR2 (4)
4	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
5	INSERT_DATE	NOT NULL	DATE
6	FAILURE_REASON	NOT NULL	VARCHAR2 (200)
7	RADIO_ASSAY_DATE	NULL	DATE

Primary Key

Name	Column
BAD_WASYM_PK	CNTR_NUM
BAD_WASYM_PK	SITE_ID
BAD_WASYM_PK	RADIO_ASSAY_METHOD

Table Name : BAD_ASSEMBLIES Alias : BAD_ASSEMB Display Title : Bad Assemblies

Column Summary

Col. Seq	Column	Nulls ?	Type
1	ASSEMBLY_ID	NOT NULL	VARCHAR2 (8)
2	PAYLOAD_WEIGHT	NOT NULL	NUMBER (7, 2)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
4	INSERT_DATE	NOT NULL	DATE
5	SHIPMENT_NUM	NOT NULL	VARCHAR2 (12)
6	SHIP_CNTR_NUM	NOT NULL	VARCHAR2 (7)
7	FAILURE_REASON	NOT NULL	VARCHAR2 (200)

Primary Key

Name	Column
BAD_ASSEMB_PK	ASSEMBLY_ID

Table Name : BAD_DUNNAGE_CNTRS Alias : BAD_DUNNG Display Title : Bad Dunnage Cntrs

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SITE_ID	NOT NULL	VARCHAR2 (2)
2	CNTR_NUM	NOT NULL	VARCHAR2 (13)
3	SHIPMENT_NUM	NOT NULL	VARCHAR2 (12)
4	SHIP_CNTR_NUM	NOT NULL	VARCHAR2 (7)
5	CONTAINER_WEIGHT	NOT NULL	NUMBER (10, 2)
6	SHIP_DATE	NOT NULL	DATE
7	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
8	INSERT_DATE	NOT NULL	DATE
9	DISPOSAL_DATE	NOT NULL	DATE
10	ASSEMBLY_ID	NOT NULL	VARCHAR2 (8)
11	LINER_TYPE	NOT NULL	VARCHAR2 (3)
12	AUTH_ROLE	NOT NULL	VARCHAR2 (20)
13	USER_ID	NOT NULL	VARCHAR2 (7)
14	RSUA_SITE_ID	NOT NULL	VARCHAR2 (2)
15	FAILURE_REASON	NOT NULL	VARCHAR2 (200)
16	TYPE_CODE	NULL	VARCHAR2 (3)

Primary Key

Name	Column
BAD_DUNNG_PK	SITE_ID
BAD_DUNNG_PK	CNTR_NUM

Table Name : BAD_SHIPMENTS Alias : BAD_SHIP Display Title : Bad Shipments

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SHIPMENT_NUM	NOT NULL	VARCHAR2 (12)
2	DOT_DESC	NOT NULL	VARCHAR2 (60)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
4	INSERT_DATE	NOT NULL	DATE
5	TRANSPORTER_NAME	NOT NULL	VARCHAR2 (25)
6	SITE_ID	NOT NULL	VARCHAR2 (2)
7	CERT_DATE	NULL	DATE
8	MANIFEST_DOC_NUM	NULL	VARCHAR2 (5)
9	RECEIPT_DATE	NULL	DATE
10	SEND_DATE	NULL	DATE
11	VEHICLE_TYPE	NULL	VARCHAR2 (1)
12	AUTH_ROLE	NULL	VARCHAR2 (20)
13	USER_ID	NULL	VARCHAR2 (7)
14	RSUA_SITE_ID	NULL	VARCHAR2 (2)
15	FAILURE_REASON	NULL	VARCHAR2 (200)

Primary Key

Name	Column
BAD_SHIP_PK	SHIPMENT_NUM

Table Name : BAD_SHIPPING_CONTAINERS

Alias : BAD_SH_CNT

Display Title : Bad Shipping Containers

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SHIPMENT_NUM	NOT NULL	VARCHAR2 (12)
2	SHIP_CNTR_NUM	NOT NULL	VARCHAR2 (7)
3	DECAY_HEAT	NOT NULL	NUMBER (10, 0)
4	DECAY_HEAT_UNCERT	NOT NULL	NUMBER (10, 0)
5	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
6	INSERT_DATE	NOT NULL	DATE
7	FAILURE_REASON	NOT NULL	VARCHAR2 (200)
8	DOSE_RATE_1M	NULL	NUMBER (7, 0)
9	DOSE_RATE_2M	NULL	NUMBER (7, 0)
10	DOSE_RATE_SURF	NULL	NUMBER (7, 0)

Primary Key

Name	Column
BAD_SH_CNT_PK	SHIPMENT_NUM
BAD_SH_CNT_PK	SHIP_CNTR_NUM

Table Name : BAD_WC_CHARZ_METHODS

Alias : BWCM

Display Title : Bad Wc Charz Methods

Column Summary

Col. Seq	Column	Nulls ?	Type
1	METHOD_ID	NOT NULL	VARCHAR2 (20)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	CNTR_NUM	NOT NULL	VARCHAR2 (13)
4	CHARZ_METHOD_DATE	NULL	DATE
5	INSERT_DATE	NULL	DATE
6	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
7	FAILURE_REASON	NOT NULL	VARCHAR2 (200)

Table Name : BAD_WC_COMMENTS Alias : BAD_WCOMT Display Title : Bad Wc Comments

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	COMMENT_TYPE	NOT NULL	VARCHAR2 (10)
4	COMMENTS	NOT NULL	VARCHAR2 (200)
5	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
6	INSERT_DATE	NOT NULL	DATE
7	FAILURE_REASON	NOT NULL	VARCHAR2 (200)

Primary Key

Name	Column
BAD_WCOMT_PK	CNTR_NUM
BAD_WCOMT_PK	SITE_ID
BAD_WCOMT_PK	COMMENT_TYPE

Table Name : BAD_WC_HAZ_CODES Alias : BAD_WHCODE Display Title : Bad Wc Haz Codes

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	HAZ_CODE	NOT NULL	VARCHAR2 (4)
4	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
5	INSERT_DATE	NOT NULL	DATE
6	FAILURE_REASON	NOT NULL	VARCHAR2 (200)

Primary Key

Name	Column
BAD_WHCODE_PK	CNTR_NUM
BAD_WHCODE_PK	SITE_ID
BAD_WHCODE_PK	HAZ_CODE

Table Name : BAD_WC_LOCS Alias : BAD_WLOC Display Title : Bad Wc Locs

Column Summary

Col. Seq	Column	Nulls ?	Type
2	BAD_WLOC_ID	NOT NULL	NUMBER (10, 0)
4	TMP_WL_ID	NULL	NUMBER (10)
6	REF_LOC_ID	NULL	NUMBER (10)
8	CNTR_NUM	NULL	VARCHAR2 (13)
12	HANDLING_TYPE	NULL	VARCHAR2 (1)
14	PANEL_NUMBER	NULL	VARCHAR2 (2)
16	BLDG_NUM	NULL	VARCHAR2 (10)
18	PAD_NUM	NULL	VARCHAR2 (10)
20	ROW_NUMBER	NULL	NUMBER (4)
22	ROOM_NUMBER	NULL	VARCHAR2 (10)
24	COLUMN_NUMBER	NULL	NUMBER (4)
26	COLUMN_HEIGHT	NULL	NUMBER (1)
28	BORE_HOLE_NUMBER	NULL	VARCHAR2 (6)
30	SUB_LOC_CHAR	NULL	VARCHAR2 (1)
32	INSERT_DATE	NULL	DATE
34	ASSEMBLY_ID	NULL	VARCHAR2 (8)
36	REASON	NULL	VARCHAR2 (200)

Primary Key

Name	Column
BAD_WLOC_PK	BAD_WLOC_ID

Table Name : BAD_WC_MAT_PARMS Alias : BAD_WMPARM Display Title : Bad Wc Mat Parms

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	WASTE_MATL_PARM	NOT NULL	VARCHAR2 (40)
5	WGT_OF_MAT_PARMS	NULL	NUMBER (10, 0)
6	INSERT_DATE	NOT NULL	DATE
7	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
8	FAILURE_REASON	NOT NULL	VARCHAR2 (200)

Primary Key

Name	Column
BAD_WMPARM_PK	CNTR_NUM
BAD_WMPARM_PK	SITE_ID
BAD_WMPARM_PK	WASTE_MATL_PARM

Table Name : BAD_WC_NUCLIDES Alias : BAD_WNUC Display Title : Bad Wc Nuclides

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	RADIONUCLIDE	NOT NULL	VARCHAR2 (7)
4	ACTIVITY	NOT NULL	NUMBER (10, 0)
5	ACTIVITY_UNCERT	NOT NULL	NUMBER (10, 0)
6	MASS	NOT NULL	NUMBER (10, 0)
7	MASS_UNCERT	NOT NULL	NUMBER (10, 0)
8	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
9	INSERT_DATE	NOT NULL	DATE
10	FAILURE_REASON	NULL	VARCHAR2 (200)

Primary Key

Name	Column
BAD_WNUC_PK	CNTR_NUM
BAD_WNUC_PK	SITE_ID
BAD_WNUC_PK	RADIONUCLIDE

Table Name : BAD_WC_OVPKS Alias : BAD_WOVPK Display Title : Bad Wc Ovpks

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM_NEW	NOT NULL	VARCHAR2 (13)
2	SITE_ID_NEW	NOT NULL	VARCHAR2 (2)
3	CNTR_NUM_OLD	NOT NULL	VARCHAR2 (13)
4	SITE_ID_OLD	NOT NULL	VARCHAR2 (2)
5	OVERPACK_DATE	NOT NULL	DATE
6	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
7	INSERT_DATE	NOT NULL	DATE
8	FAILURE_REASON	NOT NULL	VARCHAR2 (200)
9	PCT_WGT_IN_NEW	NULL	NUMBER (3, 0)

Primary Key

Name	Column
BAD_WOVPK_PK	CNTR_NUM_NEW
BAD_WOVPK_PK	SITE_ID_NEW
BAD_WOVPK_PK	CNTR_NUM_OLD
BAD_WOVPK_PK	SITE_ID_OLD

Table Name : BAD_WC_SAMPLES Alias : BAD_WSAMPL Display Title : Bad Wc Samples

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	SAMPLE_ID	NOT NULL	VARCHAR2 (15)
4	SAMPLE_TYPE	NOT NULL	VARCHAR2 (4)
5	DATE_SAMPLED	NOT NULL	DATE
6	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
7	INSERT_DATE	NOT NULL	DATE
8	FAILURE_REASON	NOT NULL	VARCHAR2 (200)

Primary Key

Name	Column
BAD_WSAMPL_PK	CNTR_NUM
BAD_WSAMPL_PK	SITE_ID
BAD_WSAMPL_PK	SAMPLE_ID

Table Name : BAD_WC_SAMPLE_AMOUNTS

Alias : BWCSA

Display Title : Bad Wc Sample Amounts

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	SAMPLE_ID	NOT NULL	VARCHAR2 (15)
4	ANALYTE	NOT NULL	VARCHAR2 (50)
5	METHOD_ID	NOT NULL	VARCHAR2 (20)
6	SAMPLE_TYPE	NOT NULL	VARCHAR2 (4)
7	DATE_SAMPLED	NOT NULL	DATE
8	DATE_ANALYZED	NOT NULL	DATE
9	REPORTING_FLAG	NOT NULL	VARCHAR2 (2)
10	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
11	INSERT_DATE	NOT NULL	DATE
12	FAILURE_REASON	NOT NULL	VARCHAR2 (200)
13	CONC_MG_KG	NULL	NUMBER (10, 2)
14	CONC_PPM	NULL	NUMBER (6, 0)
15	CONC_VOL_PCT	NULL	NUMBER (3, 0)

Primary Key

Name	Column
BWCSA_PK	CNTR_NUM
BWCSA_PK	SITE_ID
BWCSA_PK	SAMPLE_ID
BWCSA_PK	ANALYTE
BWCSA_PK	METHOD_ID

Table Name : BAD_WST_CNTRS Alias : BAD_WST Display Title : Bad Wst Cntrs

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SITE_ID	NOT NULL	VARCHAR2 (2)
2	CNTR_NUM	NOT NULL	VARCHAR2 (13)
3	HANDLING_CODE	NOT NULL	VARCHAR2 (2)
4	BG_DOSE_RATE	NOT NULL	NUMBER (7, 0)
5	NEUT_DOSE_RATE	NOT NULL	NUMBER (7, 0)
6	CLOSURE_DATE	NOT NULL	DATE
7	DECAY_HEAT	NOT NULL	NUMBER (10, 0)
8	DECAY_HEAT_UNCERT	NOT NULL	NUMBER (10, 0)
9	LINER_PUNCTURED	NOT NULL	VARCHAR2 (1)
10	VISUAL_EXAM_FLG	NOT NULL	VARCHAR2 (1)
11	VENT_DATE	NOT NULL	DATE
13	GENERATOR_SITE_ID	NULL	VARCHAR2 (2)
15	IDC_CODE	NULL	VARCHAR2 (4)
17	TRUCON_CODE	NULL	VARCHAR2 (6)
19	MATRIX_CODE	NULL	VARCHAR2 (4)
22	FILTER_INSTALL_DATE	NOT NULL	DATE
24	CERT_SITE	NULL	VARCHAR2 (2)
25	CERT_DATE	NULL	VARCHAR2 (240)
26	CHARZ_DATE	NULL	DATE
28	FILL_FACTOR	NULL	NUMBER (3, 0)
29	GROSS_WEIGHT	NULL	NUMBER (10, 0)
30	GROSS_WEIGHT_UNCERT	NULL	NUMBER (10, 0)
31	WASTE_WEIGHT	NULL	NUMBER (10, 0)
32	WASTE_WEIGHT_UNCERT	NULL	NUMBER (10, 0)
33	LAYERS_OF_PACKAGING	NULL	NUMBER (3, 0)
34	PCB_CONC	NULL	NUMBER (4, 0)
35	PU239_EQ_ACT	NULL	NUMBER (10, 0)
36	PU239_FISS_GM_EQ	NULL	NUMBER (10, 0)
38	PU239_FISS_GM_EQ_UNCERT	NULL	NUMBER (10, 0)
40	ALPHA_SURF_CONT	NULL	NUMBER (10, 0)
41	BETA_GAMMA_SURF_CONT	NULL	NUMBER (10, 0)
42	TRU_ALPHA_ACT	NULL	NUMBER (10, 0)
43	TRU_ALPHA_ACT_CONC	NULL	NUMBER (10, 0)
44	TRU_ALPHA_ACT_CONC_UNCERT	NULL	NUMBER (10, 0)
45	TRU_ALPHA_ACT_UNCERT	NULL	NUMBER (10, 0)
46	WAC_REV_NUM	NULL	VARCHAR2 (2)
48	WAC_EXCEPT_NUM	NULL	VARCHAR2 (7)

Table Name : BAD_WST_CNTRS Alias : BAD_WST Display Title : Bad Wst Cntrs

Col. Seq	Column	Nulls ?	Type
50	WST_STRM_PROFILE	NULL	VARCHAR2 (240)
51	SHIPPING_CATEGORY	NULL	VARCHAR2 (8)
56	ASSEMBLY_ID	NULL	VARCHAR2 (8)
57	SHIPMENT_NUM	NULL	VARCHAR2 (12)
58	SHIP_CNTR_NUM	NULL	VARCHAR2 (7)
59	ASPIRATION_ID	NULL	VARCHAR2 (1)
60	FILTER_MODEL_NUMBER	NULL	VARCHAR2 (6)
61	TYPE_CODE	NULL	VARCHAR2 (3)
65	LINER_TYPE	NULL	VARCHAR2 (3)
67	FAILURE_REASON	NOT NULL	VARCHAR2 (200)
69	INSERT_DATE	NOT NULL	DATE
71	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)

Primary Key

Name	Column
BAD_WST_PK	SITE_ID
BAD_WST_PK	CNTR_NUM

Table Name : DUNNAGE_CNTRS Alias : DUNGE_CNTR Display Title : Dunnage Cntrs

Column Summary

Col. Seq	Column	Nulls ?	Type
1	DNG_CNTR_ID	NOT NULL	NUMBER (10, 0)
1	SHIPMENT_NUM	NOT NULL	VARCHAR2 (12)
2	PACKAGING_NUM	NOT NULL	VARCHAR2 (7)
3	SITE_ID	NOT NULL	VARCHAR2 (2)
5	ASSEMBLY_ID	NULL	VARCHAR2 (8)
7	CNTR_NUM	NOT NULL	VARCHAR2 (13)
8	LINER_TYPE	NOT NULL	VARCHAR2 (3)
9	RSUA_ID	NOT NULL	NUMBER (10, 0)
10	CONTAINER_WEIGHT	NOT NULL	NUMBER (10, 2)
11	SHIP_DATE	NOT NULL	DATE
12	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
13	INSERT_DATE	NOT NULL	DATE
14	DISPOSAL_DATE	NULL	DATE

Primary Key

Name	Column
DUNGE_CNTR_PK	DNG_CNTR_ID

Other Unique Keys

Name	Column
DUNGE_CNTR_DUNGE_CNTR2_UK	SITE_ID
DUNGE_CNTR_DUNGE_CNTR2_UK	SHIPMENT_NUM
DUNGE_CNTR_DUNGE_CNTR2_UK	CNTR_NUM
DUNGE_CNTR_DUNGE_CNTR2_UK	PACKAGING_NUM

Foreign Keys

DUNGE_CNTR_ASSEM_FK

ASSEMBLY_ID references ASSEMBLIES.ASSEMBLY_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Restricted ;

DUNGE_CNTR_RLINER_FK

LINER_TYPE references REF_LINERS.LINER_TYPE

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

DUNGE_CNTR_RSIT_FK

SITE_ID references REF_SITES.SITE_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

DUNGE_CNTR_RSUSERAUTH_FK

RSUA_ID references REF_SITE_USER_AUTHS.RSUA_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

DUNGE_CNTR_SPKG_FK

SHIPMENT_NUM references PACKAGING.SHIPMENT_NUM
PACKAGING_NUM references PACKAGING.PACKAGING_NUM

Table Name : DUNNAGE_CNTRS Alias : DUNGE_CNTR Display Title : Dunnage Cntrs

Foreign Keys

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
DUNGE_CNTR_RLINER_FK_I	1	LINER_TYPE	
DUNGE_CNTR_RSIT_FK_I	1	SITE_ID	
DUNGE_CNTR_RSUSERAUTH_FK_I	1	RSUA_ID	
DUNGE_CNTR_SPKG_FK_I	1	SHIPMENT_NUM	
DUNGE_CNTR_SPKG_FK_I	2	PACKAGING_NUM	

Table Name : PACKAGING Alias : SPKG Display Title : Packaging

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SHIPMENT_NUM	NOT NULL	VARCHAR2 (12)
2	PACKAGING_NUM	NOT NULL	VARCHAR2 (7)
3	PACKAGING_TYPE	NOT NULL	VARCHAR2 (7)
4	TYPE_CODE	NOT NULL	VARCHAR2 (3)
5	DECAY_HEAT	NOT NULL	NUMBER (10, 0)
6	DECAY_HEAT_UNCERT	NOT NULL	NUMBER (10, 0)
7	DOSE_RATE_1M	NOT NULL	NUMBER (7, 0)
8	DOSE_RATE_2M	NOT NULL	NUMBER (7, 0)
9	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
10	INSERT_DATE	NOT NULL	DATE
11	DOSE_RATE_SURF	NULL	NUMBER (7, 0)
12	ICV_CLOSURE_DATE	NULL	DATE
13	OCA_LID_NUM	NULL	VARCHAR2 (8)

Primary Key

Name	Column
SPKG_PK	SHIPMENT_NUM
SPKG_PK	PACKAGING_NUM

Foreign Keys

SPKG_RPCTM_FK

PACKAGING_TYPE references REF_PKG_CNTR_TYPE_MTXS.PACKAGING_TYPE
TYPE_CODE references REF_PKG_CNTR_TYPE_MTXS.TYPE_CODE
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

SPKG_SHIPMENT_FK

SHIPMENT_NUM references SHIPMENTS.SHIPMENT_NUM
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
SPKG_RPCTM_FK_I	1	PACKAGING_TYPE	
SPKG_RPCTM_FK_I	2	TYPE_CODE	
SPKG_SHIPMENT_FK_I	1	SHIPMENT_NUM	

Table Name : REF_ANALYTES Alias : RANAL Display Title : Analyte Reference Data

Column Summary

Col. Seq	Column	Nulls ?	Type
1	ANALYTE	NOT NULL	VARCHAR2 (50)
2	FLAMMABLE_FLAG	NOT NULL	VARCHAR (1)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RANAL_PK	ANALYTE

Table Name : REF_ASPIRATIONS Alias : RASP Display Title : Ref Aspirations

Column Summary

Col. Seq	Column	Nulls ?	Type
1	ASPIRATION_METHOD_ID	NOT NULL	VARCHAR2 (1)
2	ASPIRATION_PERIOD	NOT NULL	NUMBER (3, 0)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	METHOD_NAME	NULL	VARCHAR2 (30)
6	EXPIRE_DATE	NULL	DATE
7	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RASP_PK	ASPIRATION_METHOD_ID

Table Name : REF_ASSAY_METHODS Alias : RAME Display Title : Ref Assay Methods

Column Summary

Col. Seq	Column	Nulls ?	Type
1	RADIO_ASSAY_METHOD	NOT NULL	VARCHAR2 (4)
2	DESCRIPTION	NOT NULL	VARCHAR2 (30)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RAME_PK	RADIO_ASSAY_METHOD

Table Name : REF_AUTHS Alias : RAUTH Display Title : Ref Auths

Column Summary

Col. Seq	Column	Nulls ?	Type
1	ROLE_AUTH	NOT NULL	VARCHAR2 (20)
2	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
3	INSERT_DATE	NOT NULL	DATE
4	DESCRIPTION	NULL	VARCHAR2 (50)
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RAUTH_PK	ROLE_AUTH

Table Name : REF_CHARZ_METHODS Alias : RCME Display Title : Ref Charz Methods

Column Summary

Col. Seq	Column	Nulls ?	Type
1	METHOD_ID	NOT NULL	VARCHAR2 (20)
2	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
3	INSERT_DATE	NOT NULL	DATE
4	EXPIRE_DATE	NULL	DATE
5	REASON	NULL	VARCHAR2 (30)
6	METHOD_DESC	NULL	VARCHAR2 (50)
7	METHOD_TYPE	NOT NULL	VARCHAR2 (1)

Primary Key

Name	Column
RCME_PK	METHOD_ID

Table Name : REF_CNTR_STATUS Alias : RCNST Display Title : Ref Cntr Status

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_STATUS_CODE	NOT NULL	VARCHAR2 (3)
2	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
3	INSERT_DATE	NOT NULL	DATE
4	DESCRIPTION	NULL	VARCHAR2 (30)
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RCNST_PK	CNTR_STATUS_CODE

Table Name : REF_CONTAINER_TYPES

Alias : RCTYP

Display Title : Ref Container Types

Column Summary

Col. Seq	Column	Nulls ?	Type
1	TYPE_CODE	NOT NULL	VARCHAR2 (3)
2	DESCRIPTION	NOT NULL	VARCHAR2 (60)
3	CNTR_VOLUME	NOT NULL	NUMBER (10, 2)
4	BG_SURF_DOSE_RATE_LIMIT	NOT NULL	NUMBER (10, 0)
5	ALPHA_SURF_DOSE_RATE_LIMIT	NOT NULL	NUMBER (10, 0)
6	PU_239_EQ_ACT_LIMIT	NOT NULL	NUMBER (10, 0)
7	PU_239_FISS_GM_EQ_LIMIT	NOT NULL	NUMBER (10, 0)
8	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
9	INSERT_DATE	NOT NULL	DATE
10	CNTR_WGT	NULL	NUMBER (10, 2)
11	GROSS_WGT_LIMIT	NULL	NUMBER (10, 2)
12	CNTR_WGT_UNCERTAINTY	NULL	NUMBER (10, 2)
13	EXPIRE_DATE	NULL	DATE
14	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RCTYP_PK	TYPE_CODE

Table Name : REF_DATA_CNTR_STAT_MTXS
Alias : RDCSM
Display Title : Ref Data Cntr Stat Mtxs

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_STATUS_CODE	NOT NULL	VARCHAR2 (3)
2	DATA_STATUS_CODE	NOT NULL	VARCHAR2 (15)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RDCSM_PK	DATA_STATUS_CODE
RDCSM_PK	CNTR_STATUS_CODE

Foreign Keys

RDCSM_RCNST_FK

CNTR_STATUS_CODE references REF_CNTR_STATUS.CNTR_STATUS_CODE
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

RDCSM_RDS_FK

DATA_STATUS_CODE references REF_DATA_STATUS.DATA_STATUS_CODE
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
RDCSM_RCNST_FK_I	1	CNTR_STATUS_CODE	
RDCSM_RDS_FK_I	1	DATA_STATUS_CODE	

Table Name : REF_DATA_STATUS Alias : RDS Display Title : Ref Data Status

Column Summary

Col. Seq	Column	Nulls ?	Type
1	DATA_STATUS_CODE	NOT NULL	VARCHAR2 (15)
2	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
3	INSERT_DATE	NOT NULL	DATE
4	DESCRIPTION	NULL	VARCHAR2 (30)
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RDS_PK	DATA_STATUS_CODE

Table Name : REF_FILTER_MODELS Alias : RFMO Display Title : Ref Filter Models

Column Summary

Col. Seq	Column	Nulls ?	Type
1	FILTER_MODEL_NUMBER	NOT NULL	VARCHAR2 (6)
2	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
3	INSERT_DATE	NOT NULL	DATE
4	DESCRIPTION	NULL	VARCHAR2 (30)
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RFMO_PK	FILTER_MODEL_NUMBER

Table Name : REF_HAZ_CODES Alias : RHAZ Display Title : Ref Haz Codes

Column Summary

Col. Seq	Column	Nulls ?	Type
1	HAZ_CODE	NOT NULL	VARCHAR2 (4)
2	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
3	INSERT_DATE	NOT NULL	DATE
4	DESCRIPTION	NULL	VARCHAR2 (30)
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RHAZ_PK	HAZ_CODE

Table Name : REF_IDCS Alias : RIDC Display Title : Ref Idcs

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SITE_ID	NOT NULL	VARCHAR2 (2)
2	IDC_CODE	NOT NULL	VARCHAR2 (4)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	DESCRIPTION	NULL	VARCHAR2 (30)
6	EXPIRE_DATE	NULL	DATE
7	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RIDC_PK	SITE_ID
RIDC_PK	IDC_CODE

Foreign Keys

RIDC_RSIT_FK

SITE_ID references REF_SITES.SITE_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
RIDC_RSIT_FK_I	1	SITE_ID	

Table Name : REF_LINERS Alias : RLINER Display Title : Ref Liners

Column Summary

Col. Seq	Column	Nulls ?	Type
1	LINER_TYPE	NOT NULL	VARCHAR2 (3)
2	DESCRIPTION	NOT NULL	VARCHAR2 (60)
3	THICK	NOT NULL	NUMBER (10, 2)
4	WGT	NOT NULL	NUMBER (10, 2)
5	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
6	INSERT_DATE	NOT NULL	DATE
7	EXPIRE_DATE	NULL	DATE
8	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RLINER_PK	LINER_TYPE

Table Name : REF_LOCATIONS Alias : REFLOCA Display Title : Ref Locations

Column Summary

Col. Seq	Column	Nulls ?	Type
3	REF_LOC_ID	NOT NULL	NUMBER (10, 0)
4	HANDLING_TYPE	NOT NULL	VARCHAR (1)
6	PANEL_NUMBER	NULL	VARCHAR2 (2)
8	BLDG_NUM	NULL	VARCHAR2 (10)
11	PAD_NUM	NULL	VARCHAR2 (10)
13	ROOM_NUMBER	NULL	VARCHAR2 (10)
15	ROW_NUMBER	NOT NULL	NUMBER (4)
16	COLUMN_NUMBER	NOT NULL	NUMBER (4, 0)
17	COLUMN_HEIGHT	NOT NULL	NUMBER (1, 0)
19	SUB_LOC_CHAR	NULL	VARCHAR2 (1)
22	BORE_HOLE_NUMBER	NULL	VARCHAR2 (6)
23	INSERT_DATE	NOT NULL	DATE
25	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
29	EXPIRE_DATE	NULL	DATE
30	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
REFLOCA_PK	REF_LOC_ID

Other Unique Keys

Name	Column
REFLOCA_UK	HANDLING_TYPE
REFLOCA_UK	PANEL_NUMBER
REFLOCA_UK	BLDG_NUM
REFLOCA_UK	PAD_NUM
REFLOCA_UK	ROOM_NUMBER
REFLOCA_UK	ROW_NUMBER
REFLOCA_UK	COLUMN_NUMBER
REFLOCA_UK	COLUMN_HEIGHT
REFLOCA_UK	SUB_LOC_CHAR
REFLOCA_UK	BORE_HOLE_NUMBER

Table Name : REF_MATRIX_CODES Alias : RMATC Display Title : Ref Matrix Codes

1) Waste Matrix Codes have to do with disposal of the waste

Column Summary

Col. Seq	Column	Nulls ?	Type
1	MATRIX_CODE	NOT NULL	VARCHAR2 (4)
2	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
3	INSERT_DATE	NOT NULL	DATE
4	MATRIX_CODE_GROUP	NULL	VARCHAR2 (2)
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RMATC_PK	MATRIX_CODE

Table Name : REF_MAT_PARMS Alias : RMAT Display Title : Ref Mat Parms

Column Summary

Col. Seq	Column	Nulls ?	Type
1	WASTE_MATL_PARM	NOT NULL	VARCHAR2 (40)
2	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
3	INSERT_DATE	NOT NULL	DATE
4	DESCRIPTION	NULL	VARCHAR2 (300)
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RMAT_PK	WASTE_MATL_PARM

Table Name : REF_NUCLIDES Alias : RNUC Display Title : Ref Nuclides

Column Summary

Col. Seq	Column	Nulls ?	Type
1	RADIONUCLIDE	NOT NULL	VARCHAR2 (7)
2	SPECIFIC_ACTIVITY	NOT NULL	NUMBER (10, 0)
3	EMITTER_TYPE	NOT NULL	VARCHAR2 (1)
4	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
5	INSERT_DATE	NOT NULL	DATE
6	NAME	NULL	VARCHAR2 (60)
7	HALF_LIFE	NULL	NUMBER (10, 0)
8	EXPIRE_DATE	NULL	DATE
9	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RNUC_PK	RADIONUCLIDE

Table Name : REF_PACKAGING
Alias : RPACKAGING
Display Title : Ref Packaging

Column Summary

Col. Seq	Column	Nulls ?	Type
1	PACKAGING_TYPE	NOT NULL	VARCHAR2 (7)
2	WGT_LIMIT	NOT NULL	NUMBER (10, 0)
3	ALPHA_SURF_DOSE_RATE_LIMIT	NOT NULL	NUMBER (10, 0)
4	BG_SURF_DOSE_RATE_LIMIT	NOT NULL	NUMBER (10, 0)
5	DOSE_RATE_2_M_LIMIT	NOT NULL	NUMBER (10, 0)
6	DECAY_HEAT_LIMIT	NOT NULL	NUMBER (10, 0)
7	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
8	INSERT_DATE	NOT NULL	DATE
9	EXPIRE_DATE	NULL	DATE
10	REASON	NULL	VARCHAR2 (30)
11	DESCRIPTION	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RPACKAGING_PK	PACKAGING_TYPE

Table Name : REF_PKG_CNTR_TYPE_MTXS

Alias : RPCTM

Display Title : Ref Pkg Cntr Type Mtxs

Column Summary

Col. Seq	Column	Nulls ?	Type
1	PACKAGING_TYPE	NOT NULL	VARCHAR2 (7)
2	TYPE_CODE	NOT NULL	VARCHAR2 (3)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RPCTM_PK	PACKAGING_TYPE
RPCTM_PK	TYPE_CODE

Foreign Keys

RPCTM_RCTYP_FK

TYPE_CODE references REF_CONTAINER_TYPES.TYPE_CODE

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

RPCTM_RPACKAGING_FK

PACKAGING_TYPE references REF_PACKAGING.PACKAGING_TYPE

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
RPCTM_RCTYP_FK_I	1	TYPE_CODE	
RPCTM_RPACKAGING_FK_I	1	PACKAGING_TYPE	

Table Name : REF_SAMPLE_TYPES Alias : RSTY Display Title : Ref Sample Types

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SAMPLE_TYPE	NOT NULL	VARCHAR2 (4)
2	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
3	INSERT_DATE	NOT NULL	DATE
4	DESCRIPTION	NULL	VARCHAR2 (50)
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RSTY_PK	SAMPLE_TYPE

Table Name : REF_SHIP_CATS Alias : RSCAT Display Title : Ref Ship Cats

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SHIPPING_CATEGORY	NOT NULL	VARCHAR2 (8)
3	DESCRIPTION	NOT NULL	VARCHAR2 (40)
4	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
5	INSERT_DATE	NOT NULL	DATE
6	DECAY_HEAT_MAXIMUM	NULL	NUMBER (10, 4)
7	EXPIRE_DATE	NULL	DATE
8	REASON	NULL	VARCHAR2 (30)
10	MAX_GAS_GEN_RATE	NULL	NUMBER (10, 0)
11	MAX_GAS_HYD_METH_GEN_RATE	NULL	NUMBER (10, 0)

Primary Key

Name	Column
RSCAT_PK	SHIPPING_CATEGORY

Table Name : REF_SITES Alias : RSIT Display Title : Ref Sites

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SITE_ID	NOT NULL	VARCHAR2 (2)
2	NAME	NOT NULL	VARCHAR2 (30)
3	ADDRESS	NOT NULL	VARCHAR2 (50)
4	EPA_ID	NOT NULL	VARCHAR2 (15)
5	TECHNICAL_CONTACT	NOT NULL	VARCHAR2 (20)
6	GENERATOR_FLG	NOT NULL	VARCHAR (1)
7	SHIPPER_FLG	NOT NULL	VARCHAR (1)
8	CERTIFIER_FLG	NOT NULL	VARCHAR (1)
9	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
10	INSERT_DATE	NOT NULL	DATE
11	CITY	NULL	VARCHAR2 (25)
12	STATE	NULL	VARCHAR2 (2)
13	ZIP_CODE	NULL	VARCHAR2 (5)
14	CONTACT_PHONE	NULL	VARCHAR2 (12)
15	EXPIRE_DATE	NULL	DATE
16	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RSIT_PK	SITE_ID

Table Name : REF_SITE_ASSAY_METHODS

Alias : RSAM

Display Title : Ref Site Assay Methods

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SITE_ID	NOT NULL	VARCHAR2 (2)
2	RADIO_ASSAY_METHOD	NOT NULL	VARCHAR2 (4)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RSAM_PK	RADIO_ASSAY_METHOD
RSAM_PK	SITE_ID

Foreign Keys

RSAM_RAME_FK

RADIO_ASSAY_METHOD references REF_ASSAY_METHODS.RADIO_ASSAY_METHOD
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

RSAM_RSIT_FK

SITE_ID references REF_SITES.SITE_ID
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
RSAM_RAME_FK_I	1	RADIO_ASSAY_METHOD	
RSAM_RSIT_FK_I	1	SITE_ID	

Table Name : REF_SITE_CHARZ_METHODS

Alias : RSCHM

Display Title : Ref Site Charz Methods

Column Summary

Col. Seq	Column	Nulls ?	Type
1	METHOD_ID	NOT NULL	VARCHAR2 (20)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RSCHM_PK	METHOD_ID
RSCHM_PK	SITE_ID

Foreign Keys

RSCHM_RCME_FK

METHOD_ID references REF_CHARZ_METHODS.METHOD_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

RSCHM_RSIT_FK

SITE_ID references REF_SITES.SITE_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
RSCHM_RCME_FK_I	1	METHOD_ID	
RSCHM_RSIT_FK_I	1	SITE_ID	

Table Name : REF_SITE_HAZ_CODES Alias : RSHC Display Title : Ref Site Haz Codes

Column Summary

Col. Seq	Column	Nulls ?	Type
1	HAZ_CODE	NOT NULL	VARCHAR2 (4)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RSHC_PK	HAZ_CODE
RSHC_PK	SITE_ID

Foreign Keys

RSHC_RHAZ_FK

HAZ_CODE references REF_HAZ_CODES.HAZ_CODE

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

RSHC_RSIT_FK

SITE_ID references REF_SITES.SITE_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
RSHC_RHAZ_FK_I	1	HAZ_CODE	
RSHC_RSIT_FK_I	1	SITE_ID	

Table Name : REF_SITE_USER_AUTHS

Alias : RSUSERAUTH

Display Title : Ref Site User Auths

Column Summary

Col. Seq	Column	Nulls ?	Type
1	RSUA_ID	NOT NULL	NUMBER (10, 0)
2	USER_ID	NOT NULL	VARCHAR2 (7)
3	SITE_ID	NOT NULL	VARCHAR2 (2)
4	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
5	ROLE_AUTH	NOT NULL	VARCHAR2 (20)
6	INSERT_DATE	NOT NULL	DATE
7	EXPIRE_DATE	NULL	DATE
8	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RSUSERAUTH_PK	RSUA_ID

Other Unique Keys

Name	Column
RSUSERAUTH_RSUSERAUTH2_UK	USER_ID
RSUSERAUTH_RSUSERAUTH2_UK	SITE_ID
RSUSERAUTH_RSUSERAUTH2_UK	ROLE_AUTH

Foreign Keys

RSUSERAUTH_RAUTH_FK

ROLE_AUTH references REF_AUTHS.ROLE_AUTH

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

RSUSERAUTH_RSIT_FK

SITE_ID references REF_SITES.SITE_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

RSUSERAUTH_RUSE_FK

USER_ID references REF_USERS.USER_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
RSUSERAUTH_RAUTH_FK_I	1	ROLE_AUTH	
RSUSERAUTH_RSIT_FK_I	1	SITE_ID	
RSUSERAUTH_RUSE_FK_I	1	USER_ID	

Table Name : REF_TRANSPORTERS Alias : RTRA Display Title : Ref Transporters

Column Summary

Col. Seq	Column	Nulls ?	Type
1	TRANSPORTER_NAME	NOT NULL	VARCHAR2 (25)
2	EPA_ID	NOT NULL	VARCHAR2 (15)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RTRA_PK	TRANSPORTER_NAME

Table Name : REF_TRUCON_CODES Alias : R_TC Display Title : Ref Trucon Codes

1) Trucon codes must be approved before they can be used
2) " " are used for transportation of the waste
3) They are unique by themselves; i.e., 218B is the same code for all sites and means the same.

Column Summary

Col. Seq	Column	Nulls ?	Type
1	TRUCON_CODE	NOT NULL	VARCHAR2 (6)
2	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
3	INSERT_DATE	NOT NULL	DATE
4	DESCRIPTION	NULL	VARCHAR2 (30)
5	EXPIRE_DATE	NULL	DATE
6	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
R_TC_PK	TRUCON_CODE

Table Name : REF_TRUCON_CODES_MTX

Alias : RTRUC

Display Title : Ref Trucon Codes Mtx

Column Summary

Col. Seq	Column	Nulls ?	Type
1	TRUC_CODE_ID	NOT NULL	NUMBER (10, 0)
2	GENERATOR_SITE_ID	NOT NULL	VARCHAR2 (2)
3	IDC_CODE	NOT NULL	VARCHAR2 (4)
4	MATRIX_CODE	NOT NULL	VARCHAR2 (4)
5	SHIPPER_SITE_ID	NOT NULL	VARCHAR2 (2)
6	TRUCON_CODE	NOT NULL	VARCHAR2 (6)
7	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
8	INSERT_DATE	NOT NULL	DATE
9	EXPIRE_DATE	NULL	DATE
10	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RTRUC_PK	TRUC_CODE_ID

Other Unique Keys

Name	Column
RTRUC_RTRUC2_UK	GENERATOR_SITE_ID
RTRUC_RTRUC2_UK	IDC_CODE
RTRUC_RTRUC2_UK	SHIPPER_SITE_ID
RTRUC_RTRUC2_UK	MATRIX_CODE
RTRUC_RTRUC2_UK	TRUCON_CODE

Foreign Keys

RTRUC_RIDC_FK

GENERATOR_SITE_ID references REF_IDCS.SITE_ID
IDC_CODE references REF_IDCS.IDC_CODE
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

RTRUC_RMATC_FK

MATRIX_CODE references REF_MATRIX_CODES.MATRIX_CODE
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

RTRUC_RSIT_FK

SHIPPER_SITE_ID references REF_SITES.SITE_ID
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

RTRUC_R_TC_FK

TRUCON_CODE references REF_TRUCON_CODES.TRUCON_CODE
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
RTRUC_RIDC_FK_I	1	GENERATOR_SITE_ID	
RTRUC_RIDC_FK_I	2	IDC_CODE	
RTRUC_RSIT_FK_I	1	SHIPPER_SITE_ID	

Table Name : REF_TRUCON_CODES_MTX

Alias : RTRUC

Display Title : Ref Trucon Codes Mtx

Name	Seq.	Column	Unique ?
RTRUC_R_TC_FK_I	1	TRUCON_CODE	

Table Name : REF_TRUC_SHP_CAT_MTX
Alias : RTSCM
Display Title : Ref Truc Shp Cat Mtx

Column Summary

Col. Seq	Column	Nulls ?	Type
1	TRUC_SHP_CAT_ID	NOT NULL	NUMBER (10, 0)
2	SHIPPING_CATEGORY	NOT NULL	VARCHAR2 (8)
3	TRUC_CODE_ID	NOT NULL	NUMBER (10, 0)
4	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
5	INSERT_DATE	NOT NULL	DATE
6	EXPIRE_DATE	NULL	DATE
7	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RTSCM_PK	TRUC_SHP_CAT_ID

Other Unique Keys

Name	Column
RTSCM_RTSCM2_UK	SHIPPING_CATEGORY
RTSCM_RTSCM2_UK	TRUC_CODE_ID

Foreign Keys

RTSCM_RSCAT_FK

SHIPPING_CATEGORY references REF_SHIP_CATS.SHIPPING_CATEGORY
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

RTSCM_RTRUC_FK

TRUC_CODE_ID references REF_TRUCON_CODES_MTX.TRUC_CODE_ID
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
RTSCM_RSCAT_FK_I	1	SHIPPING_CATEGORY	
RTSCM_RTRUC_FK_I	1	TRUC_CODE_ID	

Table Name : REF_USERS Alias : RUSE Display Title : Ref Users

Column Summary

Col. Seq	Column	Nulls ?	Type
1	USER_ID	NOT NULL	VARCHAR2 (7)
2	FIRST_NAME	NOT NULL	VARCHAR2 (20)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	LAST_NAME	NULL	VARCHAR2 (30)
6	PHONE_NUMBER	NULL	VARCHAR2 (13)
7	FAX_NUMBER	NULL	VARCHAR2 (13)
8	COMPANY	NULL	VARCHAR2 (30)
9	ADDRESS	NULL	VARCHAR2 (30)
10	CITY	NULL	VARCHAR2 (15)
11	STATE	NULL	VARCHAR2 (2)
12	ZIP_CODE	NULL	VARCHAR2 (5)
13	E_MAIL_ADDRESS	NULL	VARCHAR2 (25)
14	EXPIRE_DATE	NULL	DATE
15	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RUSE_PK	USER_ID

Table Name : REF_WAC_EXCEPTS Alias : RWACE Display Title : Ref Wac Excepts

Column Summary

Col. Seq	Column	Nulls ?	Type
1	WAC_EXCEPT_NUM	NOT NULL	VARCHAR2 (7)
2	APPRV_DATE	NOT NULL	DATE
3	CONTACT_ID	NOT NULL	VARCHAR2 (25)
4	REQUEST_DATE	NOT NULL	DATE
5	LIMIT_GAS_GEN_QTY	NULL	NUMBER (10, 2)
6	LIMIT_GROSS_WGT	NULL	NUMBER (10, 2)
7	LIMIT_NEUTRON_COMP_QTY	NULL	NUMBER (10, 2)
8	LIMIT_PECI_QTY	NULL	NUMBER (10, 2)
9	LIMIT_PU239_QTY	NULL	NUMBER (10, 2)
10	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
11	INSERT_DATE	NOT NULL	DATE
12	EXPIRE_DATE	NULL	DATE
13	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RWACE_PK	WAC_EXCEPT_NUM

Table Name : REF_WC_DOSE_RATE_LIMITS

Alias : RWCDRLIM

Display Title : Ref Wc Dose Rate Limits

Column Summary

Col. Seq	Column	Nulls ?	Type
2	HANDLING_CODE	NOT NULL	VARCHAR2 (2)
3	BG_DOSE_RATE_LIMIT	NOT NULL	NUMBER (7, 0)
4	NEUT_DOSE_RATE_LIMIT	NULL	NUMBER (7, 0)
5	TOTAL_DOSE_RATE_LIMIT	NOT NULL	NUMBER (7, 0)
6	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
7	INSERT_DATE	NOT NULL	DATE
8	EXPIRE_DATE	NULL	DATE
9	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RWCDRL_HNDL_CODE	HANDLING_CODE

Table Name : REF_WC_SMPL_AMT_LMTS

Alias : RWCSMAMLT

Display Title : Ref Wc Smpl Amt Lmts

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SAMPLE_TYPE	NOT NULL	VARCHAR2 (4)
2	DATE_ANALYZED_LIMIT	NOT NULL	NUMBER (4, 0)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
6	EXPIRE_DATE	NULL	DATE
7	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RWCSMAMLT_PK	SAMPLE_TYPE

Foreign Keys

RWCSMALM_SMP_TY

SAMPLE_TYPE references REF_SAMPLE_TYPES.SAMPLE_TYPE

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Restricted ;

Table Name : REF_WC_SMPL_CONC_LMTS

Alias : RSMCONLMT

Display Title : Ref Wc Smpl Conc Lmts

Column Summary

Col. Seq	Column	Nulls ?	Type
1	ANALYTE	NOT NULL	VARCHAR2 (50)
2	SAMPLE_TYPE	NOT NULL	VARCHAR2 (4)
3	CONC_PPM_LIMIT	NOT NULL	NUMBER (7, 0)
4	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
5	INSERT_DATE	NOT NULL	DATE
6	EXPIRE_DATE	NULL	DATE
7	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RSMCONLMT_PK	SAMPLE_TYPE
RSMCONLMT_PK	ANALYTE

Foreign Keys

RSMCONLMT_RANAL_FK

ANALYTE references REF_ANALYTES.ANALYTE

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

RSMCONLMT_RSTY_FK

SAMPLE_TYPE references REF_SAMPLE_TYPES.SAMPLE_TYPE

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
RSMCONLMT_RSTY_FK_I	1	SAMPLE_TYPE	

Table Name : REF_WS_PROFILES Alias : RWPROF Display Title : Ref Ws Profiles

Column Summary

Col. Seq	Column	Nulls ?	Type
1	WST_STRM_PROFILE	NOT NULL	VARCHAR2 (20)
2	DATE_APPROVED	NOT NULL	DATE
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	DESCRIPTION	NULL	VARCHAR2 (50)
6	EXPIRE_DATE	NULL	DATE
7	REASON	NULL	VARCHAR2 (30)

Primary Key

Name	Column
RWPROF_PK	WST_STRM_PROFILE

Table Name : SHIPMENTS Alias : SHIPMENT Display Title : Shipments

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SHIPMENT_NUM	NOT NULL	VARCHAR2 (12)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	RSUA_ID	NOT NULL	NUMBER (10, 0)
4	TRANSPORTER_NAME	NOT NULL	VARCHAR2 (25)
5	DOT_DESC	NOT NULL	VARCHAR2 (60)
6	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
7	INSERT_DATE	NOT NULL	DATE
8	CERT_DATE	NULL	DATE
9	MANIFEST_DOC_NUM	NULL	VARCHAR2 (5)
10	RECEIPT_DATE	NULL	DATE
11	SEND_DATE	NULL	DATE
12	VEHICLE_TYPE	NULL	VARCHAR2 (1)

Primary Key

Name	Column
SHIPMENT_PK	SHIPMENT_NUM

Foreign Keys

SHIPMENT_RSIT_FK

SITE_ID references REF_SITES.SITE_ID
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

SHIPMENT_RSUSERAUTH_FK

RSUA_ID references REF_SITE_USER_AUTHS.RSUA_ID
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

SHIPMENT_RTRA_FK

TRANSPORTER_NAME references REF_TRANSPORTERS.TRANSPORTER_NAME
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
SHIPMENT_RSIT_FK_I	1	SITE_ID	
SHIPMENT_RSUSERAUTH_FK_I	1	RSUA_ID	
SHIPMENT_RTRA_FK_I	1	TRANSPORTER_NAME	

Table Name : TMP_ASSEMBLIES Alias : TASSMB Display Title : Tmp Assemblies

Column Summary

Col. Seq	Column	Nulls ?	Type
1	ASSEMBLY_ID	NOT NULL	VARCHAR2 (8)
2	PAYLOAD_WEIGHT	NOT NULL	NUMBER (7, 2)
3	SHIPMENT_NUM	NOT NULL	VARCHAR2 (12)
4	SHIP_CNTR_NUM	NOT NULL	VARCHAR2 (7)

Primary Key

Name	Column
TASSMB_PK	ASSEMBLY_ID

Table Name : TMP_AVAIL_WC Alias : Display Title :

Column Summary

Col. Seq	Column	Nulls ?	Type
2	TEMP_TAC_ID	NOT NULL	NUMBER (8)
6	CNTR_NUM	NULL	VARCHAR2 (13)
8	ASSEMBLY_ID	NULL	VARCHAR2 (8)

Primary Key

Name	Column
TMP_AW_PK	TEMP_TAC_ID

Table Name : TMP_CONTAINER_IDS Alias : TMPCNTRID Display Title : Temporary Container IDs

Column Summary

Col. Seq	Column	Nulls ?	Type
2	SITE_ID	NOT NULL	VARCHAR2 (2)
4	CNTR_NUM	NOT NULL	VARCHAR2 (13)

Table Name : TMP_DUNNAGE_CNTRS Alias : TDUNNG Display Title : Tmp Dunnage Cntrs

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	SHIP_CNTR_NUM	NOT NULL	VARCHAR2 (7)
4	SHIPMENT_NUM	NOT NULL	VARCHAR2 (12)
5	CONTAINER_WEIGHT	NOT NULL	NUMBER (10, 2)
6	SHIP_DATE	NOT NULL	DATE
7	ASSEMBLY_ID	NOT NULL	VARCHAR2 (8)
8	DISPOSAL_DATE	NULL	DATE
9	TYPE_CODE	NULL	VARCHAR2 (3)
10	LINER_TYPE	NULL	VARCHAR2 (3)

Primary Key

Name	Column
TDUNNG_PK	CNTR_NUM
TDUNNG_PK	SITE_ID

Table Name : TMP_LOCS Alias : Display Title :

Column Summary

Col. Seq	Column	Nulls ?	Type
2	REF_LOC_ID	NOT NULL	NUMBER (10)
4	HANDLING_TYPE	NULL	VARCHAR2 (1)
6	PANEL_NUMBER	NULL	VARCHAR2 (2)
8	BLDG_NUM	NULL	VARCHAR2 (10)
10	PAD_NUM	NULL	VARCHAR2 (10)
12	ROOM_NUMBER	NULL	VARCHAR2 (10)
14	ROW_NUMBER	NULL	NUMBER (4)
16	COLUMN_NUMBER	NULL	NUMBER (4)
18	COLUMN_HEIGHT	NULL	NUMBER (1)
22	BORE_HOLE_NUMBER	NULL	VARCHAR2 (6)

Primary Key

Name	Column
TMP_LOC_PK	REF_LOC_ID

Table Name : TMP_SHIPMENTS Alias : TSHIP Display Title : Tmp Shipments

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SHIPMENT_NUM	NULL	VARCHAR2 (12)
2	CERT_DATE	NOT NULL	DATE
3	MANIFEST_DOC_NUM	NOT NULL	VARCHAR2 (5)
4	RECEIPT_DATE	NOT NULL	DATE
5	SEND_DATE	NOT NULL	DATE
6	VEHICLE_TYPE	NOT NULL	VARCHAR2 (1)
7	DOT_DESC	NULL	VARCHAR2 (60)
8	TRANSPORTER_NAME	NULL	VARCHAR2 (25)
9	SITE_ID	NULL	VARCHAR2 (2)

Primary Key

Name	Column
TSHIP_PK	SHIPMENT_NUM

Table Name : TMP_SHIPPING_CONTAINERS

Alias : TSHCNTR

Display Title : Tmp Shipping Containers

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SHIP_CNTR_NUM	NOT NULL	VARCHAR2 (7)
2	SHIPMENT_NUM	NOT NULL	VARCHAR2 (12)
3	DECAY_HEAT	NOT NULL	NUMBER (10, 0)
4	DECAY_HEAT_UNCERT	NOT NULL	NUMBER (10, 0)
5	DOSE_RATE_1M	NOT NULL	NUMBER (7, 0)
6	DOSE_RATE_2M	NOT NULL	NUMBER (7, 0)
7	DOSE_RATE_SURF	NULL	NUMBER (7, 0)
8	ICV_CLOSURE_DATE	NULL	DATE
9	OCA_LID_NUM	NULL	VARCHAR2 (8)

Primary Key

Name	Column
TSHCNTR_PK	SHIP_CNTR_NUM

Table Name : TMP_WC_ASSAY_METHODS
Alias : TWCA
Display Title : Tmp Wc Assay Methods

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	RADIO_ASSAY_METHOD	NOT NULL	VARCHAR2 (4)
4	RADIO_ASSAY_DATE	NULL	DATE

Primary Key

Name	Column
TWCA_PK	CNTR_NUM
TWCA_PK	SITE_ID
TWCA_PK	RADIO_ASSAY_METHOD

Table Name : TMP_WC_CHARZ_METHODS

Alias : TWCM

Display Title : Tmp Wc Charz Methods

Column Summary

Col. Seq	Column	Nulls ?	Type
1	METHOD_ID	NOT NULL	VARCHAR2 (20)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	CNTR_NUM	NOT NULL	VARCHAR2 (13)
4	CHARZ_METHOD_DATE	NOT NULL	DATE

Table Name : TMP_WC_COMMENTS Alias : TWC Display Title : Tmp Wc Comments

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	COMMENTS	NOT NULL	VARCHAR2 (200)
4	COMMENT_TYPE	NOT NULL	VARCHAR2 (10)

Primary Key

Name	Column
TWC_PK	CNTR_NUM
TWC_PK	SITE_ID

Table Name : TMP_WC_HAZ_CODES Alias : TWHC Display Title : Tmp Wc Haz Codes

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	HAZ_CODE	NOT NULL	VARCHAR2 (4)

Primary Key

Name	Column
TWHC_PK	CNTR_NUM
TWHC_PK	SITE_ID
TWHC_PK	HAZ_CODE

Table Name : TMP_WC_LOC Alias : Display Title :

Column Summary

Col. Seq	Column	Nulls ?	Type
4	TMP_WL_ID	NOT NULL	NUMBER (8)
6	REF_LOC_ID	NULL	NUMBER (10)
8	CNTR_NUM	NULL	VARCHAR2 (13)
9	ASSEMBLY_ID	NULL	VARCHAR2 (8)
10	HANDLING_TYPE	NULL	VARCHAR2 (1)
12	PANEL_NUMBER	NULL	VARCHAR2 (2)
14	BLDG_NUM	NULL	VARCHAR2 (10)
16	PAD_NUM	NULL	VARCHAR2 (10)
18	ROW_NUMBER	NULL	NUMBER (4)
20	ROOM_NUMBER	NULL	VARCHAR2 (10)
22	COLUMN_NUMBER	NULL	NUMBER (4)
24	COLUMN_HEIGHT	NULL	NUMBER (1)
26	BORE_HOLE_NUMBER	NULL	VARCHAR2 (6)
28	SUB_LOC_CHAR	NULL	VARCHAR2 (1)
30	INSERT_DATE	NULL	DATE

Primary Key

Name	Column
TMP_WL_PK	TMP_WL_ID

Table Name : TMP_WC_MAT_PARMS Alias : TWMP Display Title : Tmp Wc Mat Parms

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	WASTE_MATL_PARM	NOT NULL	VARCHAR2 (40)
4	WGT_OF_MAT_PARMS	NULL	NUMBER (10, 0)

Primary Key

Name	Column
TWMP_PK	CNTR_NUM
TWMP_PK	SITE_ID

Table Name : TMP_WC_NUCLIDES Alias : TWN Display Title : Tmp Wc Nuclides

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	RADIONUCLIDE	NOT NULL	VARCHAR2 (7)
4	ACTIVITY	NOT NULL	NUMBER (10, 0)
5	ACTIVITY_UNCERT	NOT NULL	NUMBER (10, 0)
6	MASS	NOT NULL	NUMBER (10, 0)
7	MASS_UNCERT	NOT NULL	NUMBER (10, 0)

Primary Key

Name	Column
TWN_PK	CNTR_NUM
TWN_PK	SITE_ID

Table Name : TMP_WC_SAMPLES Alias : TWS Display Title : Tmp Wc Samples

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	SAMPLE_ID	NOT NULL	VARCHAR2 (15)
4	SAMPLE_TYPE	NOT NULL	VARCHAR2 (4)
5	DATE_SAMPLED	NOT NULL	DATE

Primary Key

Name	Column
TWS_PK	CNTR_NUM
TWS_PK	SITE_ID
TWS_PK	SAMPLE_ID

Table Name : TMP_WC_SAMPLE_AMOUNTS
Alias : TWSA
Display Title : Tmp Wc Sample Amounts

Column Summary

Col. Seq	Column	Nulls ?	Type
1	CNTR_NUM	NOT NULL	VARCHAR2 (13)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	SAMPLE_ID	NOT NULL	VARCHAR2 (15)
4	SAMPLE_TYPE	NOT NULL	VARCHAR2 (4)
5	ANALYTE	NOT NULL	VARCHAR2 (50)
6	SAMPLE_DATE	NOT NULL	DATE
7	METHOD_ID	NOT NULL	VARCHAR2 (20)
8	DATE_ANALYZED	NOT NULL	DATE
9	REPORTING_FLAG	NOT NULL	VARCHAR2 (1)
10	CONC_MG_KG	NULL	NUMBER (10, 2)
11	CONC_PPM	NULL	NUMBER (6, 0)
12	CONC_VOL_PCT	NULL	NUMBER (3, 0)

Primary Key

Name	Column
TWSA_PK	CNTR_NUM
TWSA_PK	SITE_ID
TWSA_PK	SAMPLE_ID
TWSA_PK	SAMPLE_TYPE
TWSA_PK	ANALYTE

Table Name : TMP_WST_CNTRS Alias : TWCNTR Display Title : Tmp Wst Cntrs

Column Summary

Col. Seq	Column	Nulls ?	Type
1	SITE_ID	NOT NULL	VARCHAR2 (2)
2	CNTR_NUM	NOT NULL	VARCHAR2 (13)
3	HANDLING_CODE	NOT NULL	VARCHAR2 (2)
4	BG_DOSE_RATE	NOT NULL	NUMBER (7, 0)
5	NEUT_DOSE_RATE	NOT NULL	NUMBER (7, 0)
6	CLOSURE_DATE	NOT NULL	DATE
7	DECAY_HEAT	NOT NULL	NUMBER (10, 0)
8	DECAY_HEAT_UNCERT	NOT NULL	NUMBER (10, 0)
9	LINER_PUNCTURED	NOT NULL	VARCHAR2 (1)
10	VISUAL_EXAM_FLG	NOT NULL	VARCHAR2 (1)
11	VENT_DATE	NOT NULL	DATE
12	GENERATOR_SITE_ID	NOT NULL	VARCHAR2 (2)
13	IDC_CODE	NOT NULL	VARCHAR2 (4)
14	TRUCON_CODE	NOT NULL	VARCHAR2 (6)
15	MATRIX_CODE	NOT NULL	VARCHAR2 (4)
16	FILTER_INSTALL_DATE	NULL	DATE
17	CERT_SITE	NULL	VARCHAR2 (2)
18	CERT_DATE	NULL	DATE
19	CHARZ_DATE	NULL	DATE
20	FILL_FACTOR	NULL	NUMBER (3, 0)
21	GROSS_WEIGHT	NULL	NUMBER (10, 0)
22	GROSS_WEIGHT_UNCERT	NULL	NUMBER (10, 2)
23	WASTE_WEIGHT	NULL	NUMBER (10, 0)
24	WASTE_WEIGHT_UNCERTAINTY	NULL	NUMBER (10, 0)
25	LAYERS_OF_PACKAGING	NULL	NUMBER (3, 0)
26	PCB_CONC	NULL	NUMBER (4, 0)
27	PU239_EQ_ACT	NULL	NUMBER (10, 0)
28	PU239_FISS_GM_EQ	NULL	NUMBER (10, 0)
29	PU239_FISS_GM_EQ_UNCERT	NULL	NUMBER (10, 0)
30	ALPHA_SURF_CONT	NULL	NUMBER (10, 0)
31	BETA_GAMMA_SURF_CONT	NULL	NUMBER (10, 0)
32	TRU_ALPHA_ACT	NULL	NUMBER (10, 0)
33	TRU_ALPHA_ACT_CONC	NULL	NUMBER (10, 0)
34	TRU_ALPHA_ACT_CONC_UNCERT	NULL	NUMBER (10, 0)
35	TRU_ALPHA_ACT_UNCERT	NULL	NUMBER (10, 0)
36	WAC_REV_NUM	NULL	VARCHAR2 (2)
38	WAC_EXCEPT_NUM	NULL	VARCHAR2 ()
39	WST_STRM_PROFILE	NULL	VARCHAR2 (20)
40	SHIPPING_CATEGORY	NULL	VARCHAR2 (8)

Table Name : TMP_WST_CNTRS Alias : TWCNTR Display Title : Tmp Wst Cntrs

Col. Seq	Column	Nulls ?	Type
41	ASSEMBLY_ID	NULL	VARCHAR2 (8)
42	SHIPMENT_NUM	NULL	VARCHAR2 (12)
43	SHIP_CNTR_NUM	NULL	VARCHAR2 (7)
44	ASPIRATION_ID	NULL	VARCHAR2 (1)
45	FILTER_MODEL_NUMBER	NULL	VARCHAR2 (6)
46	TYPE_CODE	NULL	VARCHAR2 (3)
47	LINER_TYPE	NULL	VARCHAR2 (3)

Primary Key

Name	Column
TWCNTR_PK	SITE_ID
TWCNTR_PK	CNTR_NUM

Table Name : WC_ASSAY_METHODS Alias : WASSY Display Title : Wc Assay Methods

Column Summary

Col. Seq	Column	Nulls ?	Type
1	RADIO_ASSAY_METHOD	NOT NULL	VARCHAR2 (4)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	WST_CNTR_ID	NOT NULL	NUMBER (10, 0)
4	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
5	INSERT_DATE	NOT NULL	DATE
6	ASSAY_DATE	NOT NULL	DATE

Primary Key

Name	Column
WASSY_PK	WST_CNTR_ID
WASSY_PK	RADIO_ASSAY_METHOD
WASSY_PK	SITE_ID

Foreign Keys

WASSY_RSAM_FK

RADIO_ASSAY_METHOD references REF_SITE_ASSAY_METHODS.RADIO_ASSAY_METHOD
SITE_ID references REF_SITE_ASSAY_METHODS.SITE_ID
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

WASSY_WST_CNTR_FK

WST_CNTR_ID references WST_CNTRS.WST_CNTR_ID
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
WASSY_RSAM_FK_I	1	RADIO_ASSAY_METHOD	
WASSY_RSAM_FK_I	2	SITE_ID	
WASSY_WST_CNTR_FK_I	1	WST_CNTR_ID	

Table Name : WC_CHARZ_METHODS Alias : WC_CHZ_ME Display Title : Wc Charz Methods

Column Summary

Col. Seq	Column	Nulls ?	Type
1	WST_CNTR_ID	NOT NULL	NUMBER (10, 0)
2	METHOD_ID	NOT NULL	VARCHAR2 (20)
3	SITE_ID	NOT NULL	VARCHAR2 (2)
4	CHARZ_METHOD_DATE	NOT NULL	DATE
5	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
6	INSERT_DATE	NOT NULL	DATE

Primary Key

Name	Column
WC_CHZ_ME_PK	WST_CNTR_ID
WC_CHZ_ME_PK	METHOD_ID
WC_CHZ_ME_PK	SITE_ID

Foreign Keys

WC_CHZ_ME_RSCHM_FK

METHOD_ID references REF_SITE_CHARZ_METHODS.METHOD_ID
SITE_ID references REF_SITE_CHARZ_METHODS.SITE_ID
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

WC_CHZ_ME_WST_CNTR_FK

WST_CNTR_ID references WST_CNTRS.WST_CNTR_ID
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
WC_CHZ_ME_RSCHM_FK_I	1	METHOD_ID	
WC_CHZ_ME_RSCHM_FK_I	2	SITE_ID	
WC_CHZ_ME_WST_CNTR_FK_I	1	WST_CNTR_ID	

Table Name : WC_COMMENTS Alias : WCOM Display Title : Wc Comments

Column Summary

Col. Seq	Column	Nulls ?	Type
1	WST_CNTR_ID	NOT NULL	NUMBER (10, 0)
2	COMMENT_TYPE	NOT NULL	VARCHAR2 (25)
3	COMMENTS	NOT NULL	VARCHAR2 (200)
4	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
5	INSERT_DATE	NOT NULL	DATE

Primary Key

Name	Column
WCOM_PK	WST_CNTR_ID
WCOM_PK	COMMENT_TYPE

Foreign Keys

WCOM_WST_CNTR_FK

WST_CNTR_ID references WST_CNTRS.WST_CNTR_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
WCOM_WST_CNTR_FK_I	1	WST_CNTR_ID	

Table Name : WC_HAZ_CODES Alias : WHAZC Display Title : Wc Haz Codes

Column Summary

Col. Seq	Column	Nulls ?	Type
1	HAZ_CODE	NOT NULL	VARCHAR2 (4)
2	SITE_ID	NOT NULL	VARCHAR2 (2)
3	WST_CNTR_ID	NOT NULL	NUMBER (10, 0)
4	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
5	INSERT_DATE	NOT NULL	DATE

Primary Key

Name	Column
WHAZC_PK	WST_CNTR_ID
WHAZC_PK	HAZ_CODE
WHAZC_PK	SITE_ID

Foreign Keys

WHAZC_RSHC_FK

HAZ_CODE references REF_SITE_HAZ_CODES.HAZ_CODE
SITE_ID references REF_SITE_HAZ_CODES.SITE_ID
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

WHAZC_WST_CNTR_FK

WST_CNTR_ID references WST_CNTRS.WST_CNTR_ID
Transferable ? :True ; Mandatory ? :False ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
WHAZC_RSHC_FK_I	1	HAZ_CODE	
WHAZC_RSHC_FK_I	2	SITE_ID	
WHAZC_WST_CNTR_FK_I	1	WST_CNTR_ID	

Table Name : WC_LOC Alias : WLOC Display Title : Wc Loc

Column Summary

Col. Seq	Column	Nulls ?	Type
3	WC_LOC_ID	NOT NULL	NUMBER (10, 0)
4	INSERT_DATE	NOT NULL	DATE
5	INSERT_USER_ID	NOT NULL	VARCHAR2 (7)
6	CURRENT_FLAG	NULL	VARCHAR (1)
8	WST_CNTR_ID	NULL	NUMBER (10, 0)
10	DNG_CNTR_ID	NULL	NUMBER (10, 0)
16	REF_LOC_ID	NOT NULL	NUMBER (10, 0)
18	REASON	NULL	VARCHAR2 (100)

Primary Key

Name	Column
WLOC_PK	WC_LOC_ID

Foreign Keys

WLOC_DUNGE_CNTR_FK

DNG_CNTR_ID references DUNNAGE_CNTRS.DNG_CNTR_ID

Transferable ? :True ; Mandatory ? :False ; Update Rule :Restricted ; Delete Rule :Cascades ;

WLOC_REFLOCA_FK

REF_LOC_ID references REF_LOCATIONS.REF_LOC_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

WLOC_WST_CNTR_FK

WST_CNTR_ID references WST_CNTRS.WST_CNTR_ID

Transferable ? :True ; Mandatory ? :False ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
WLOC_DUNGE_CNTR_FK_I	2	DNG_CNTR_ID	
WLOC_REFLOCA_FK_I	1	REF_LOC_ID	
WLOC_WST_CNTR_FK_I	1	WST_CNTR_ID	

Table Name : WC_MAT_PARMS Alias : WMAT Display Title : Wc Mat Parms

Column Summary

Col. Seq	Column	Nulls ?	Type
1	WST_CNTR_ID	NOT NULL	NUMBER (10, 0)
2	WASTE_MATL_PARM	NOT NULL	VARCHAR2 (40)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	WGT_OF_MAT_PARMS	NOT NULL	NUMBER (10, 0)

Primary Key

Name	Column
WMAT_PK	WST_CNTR_ID
WMAT_PK	WASTE_MATL_PARM

Foreign Keys

WMAT_RMAT_FK

WASTE_MATL_PARM references REF_MAT_PARMS.WASTE_MATL_PARM
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

WMAT_WST_CNTR_FK

WST_CNTR_ID references WST_CNTRS.WST_CNTR_ID
Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
WMAT_RMAT_FK_I	1	WASTE_MATL_PARM	
WMAT_WST_CNTR_FK_I	1	WST_CNTR_ID	

Table Name : WC_NUCLIDES Alias : WC_NUCLIDE Display Title : Wc Nuclides

Column Summary

Col. Seq	Column	Nulls ?	Type
1	WST_CNTR_ID	NOT NULL	NUMBER (10, 0)
2	RADIONUCLIDE	NOT NULL	VARCHAR2 (7)
3	ACTIVITY	NOT NULL	NUMBER (10, 0)
4	ACTIVITY_UNCERT	NOT NULL	NUMBER (10, 0)
5	MASS	NOT NULL	NUMBER (10, 0)
6	MASS_UNCERT	NOT NULL	NUMBER (10, 0)
7	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
8	INSERT_DATE	NOT NULL	DATE

Primary Key

Name	Column
WC_NUCLIDE_PK	WST_CNTR_ID
WC_NUCLIDE_PK	RADIONUCLIDE

Foreign Keys

WC_NUCLIDE_RNUC_FK

RADIONUCLIDE references REF_NUCLIDES.RADIONUCLIDE

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

WC_NUCLIDE_WST_CNTR_FK

WST_CNTR_ID references WST_CNTRS.WST_CNTR_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
WC_NUCLIDE_RNUC_FK_I	1	RADIONUCLIDE	
WC_NUCLIDE_WST_CNTR_FK_I	1	WST_CNTR_ID	

Table Name : WC_OVPKS Alias : WC_OVPK Display Title : Wc Ovpks

Column Summary

Col. Seq	Column	Nulls ?	Type
1	NEW_WST_CNTR_ID	NOT NULL	NUMBER (10, 0)
2	OLD_WST_CNTR_ID	NOT NULL	NUMBER (10, 0)
3	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
4	INSERT_DATE	NOT NULL	DATE
5	OVERPACK_DATE	NOT NULL	DATE
6	PCT_WGT_IN_NEW	NULL	NUMBER (3, 0)

Primary Key

Name	Column
WC_OVPK_PK	OLD_WST_CNTR_ID
WC_OVPK_PK	NEW_WST_CNTR_ID

Foreign Keys

WC_OVPK_WST_CNTR_COMPRISED_OF_

NEW_WST_CNTR_ID references WST_CNTRS.WST_CNTR_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

WC_OVPK_WST_CNTR_FK

OLD_WST_CNTR_ID references WST_CNTRS.WST_CNTR_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
WC_OVPK_WST_CNTR_COMPRISED_O_1	1	NEW_WST_CNTR_ID	
WC_OVPK_WST_CNTR_FK_I	1	OLD_WST_CNTR_ID	

Table Name : WC_SAMPLES Alias : WSAM Display Title : Wc Samples

1) For Headspace Gas Innermost Layer: Flammable Gas Concentrations Must be LE 5% H2.

Column Summary

Col. Seq	Column	Nulls ?	Type
1	WST_CNTR_ID	NOT NULL	NUMBER (10, 0)
2	SAMPLE_TYPE	NOT NULL	VARCHAR2 (4)
3	SAMPLE_ID	NOT NULL	VARCHAR2 (15)
4	DATE_SAMPLED	NOT NULL	DATE
5	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
6	INSERT_DATE	NOT NULL	DATE
7	LAYER_NO_SAMPLED	NULL	NUMBER (2, 0)

Primary Key

Name	Column
WSAM_PK	DATE_SAMPLED
WSAM_PK	SAMPLE_ID
WSAM_PK	SAMPLE_TYPE
WSAM_PK	WST_CNTR_ID

Foreign Keys

WSAM_RSTY_FK

SAMPLE_TYPE references REF_SAMPLE_TYPES.SAMPLE_TYPE

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

WSAM_WST_CNTR_FK

WST_CNTR_ID references WST_CNTRS.WST_CNTR_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
WSAM_RSTY_FK_I	1	SAMPLE_TYPE	
WSAM_WST_CNTR_FK_I	1	WST_CNTR_ID	

Table Name : WC_SAMPLE_AMOUNTS
Alias : WSAMT
Display Title : Wc Sample Amounts

Column Summary

Col. Seq	Column	Nulls ?	Type
1	DATE_SAMPLED	NOT NULL	DATE
2	WST_CNTR_ID	NOT NULL	NUMBER (10, 0)
3	ANALYTE	NOT NULL	VARCHAR2 (50)
4	SAMPLE_TYPE	NOT NULL	VARCHAR2 (4)
5	SAMPLE_ID	NOT NULL	VARCHAR2 (15)
6	DATE_ANALYZED	NOT NULL	DATE
7	REPORTING_FLAG	NOT NULL	VARCHAR2 (2)
8	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
9	INSERT_DATE	NOT NULL	DATE
10	METHOD_ID	NULL	VARCHAR2 (20)
11	SITE_ID	NULL	VARCHAR2 (2)
12	CONC_MG_KG	NULL	NUMBER (10, 2)
13	CONC_PPM	NULL	NUMBER (6, 0)
14	CONC_VOL_PCT	NULL	NUMBER (3, 0)

Primary Key

Name	Column
WSAMT_PK	DATE_SAMPLED
WSAMT_PK	WST_CNTR_ID
WSAMT_PK	ANALYTE
WSAMT_PK	SAMPLE_TYPE
WSAMT_PK	SAMPLE_ID

Foreign Keys

WSAMT_RANAL_FK

ANALYTE references REF_ANALYTES.ANALYTE

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

WSAMT_RSCHM_FK

METHOD_ID references REF_SITE_CHARZ_METHODS.METHOD_ID
SITE_ID references REF_SITE_CHARZ_METHODS.SITE_ID

Transferable ? :True ; Mandatory ? :False ; Update Rule :Restricted ; Delete Rule :Cascades ;

WSAMT_WSAM_FK

DATE_SAMPLED references WC_SAMPLES.DATE_SAMPLED
SAMPLE_ID references WC_SAMPLES.SAMPLE_ID
SAMPLE_TYPE references WC_SAMPLES.SAMPLE_TYPE
WST_CNTR_ID references WC_SAMPLES.WST_CNTR_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
WSAMT_RANAL_FK_I	1	ANALYTE	
WSAMT_RSCHM_FK_I	1	METHOD_ID	

Table Name : WC_SAMPLE_AMOUNTS

Alias : WSAMT

Display Title : Wc Sample Amounts

Name	Seq.	Column	Unique ?
WSAMT_RSCHM_FK_I	2	SITE_ID	
WSAMT_WSAM_FK_I	1	DATE_SAMPLED	
WSAMT_WSAM_FK_I	2	SAMPLE_ID	
WSAMT_WSAM_FK_I	3	SAMPLE_TYPE	
WSAMT_WSAM_FK_I	4	WST_CNTR_ID	

Table Name : WST_CNTRS Alias : WST_CNTR Display Title : Wst Cntrs

1) Total contact dose rate of container must be LE 200 mrem/hr for CH; LE 1000 rem/hr for RH
2) Sum of the decay heat and decay heat uncertainty must be LE 40 watts for TRUPACT-II and LE 300 watts for RH canister
3) Plutonium-239 FGE Plus 2X the Uncertainty - Must be LE 200 FGE per drum, LE 325 FGE per SWB
4) For characterization, there can be many samples, but for certification, there can only be one.
5) Every container that is certified will have a headspace gas sample taken.

Column Summary

Col. Seq	Column	Nulls ?	Type
1	WST_CNTR_ID	NOT NULL	NUMBER (10, 0)
2	CNTR_STATUS_CODE	NOT NULL	VARCHAR2 (3)
3	DATA_STATUS_CODE	NOT NULL	VARCHAR2 (15)
4	FILTER_MODEL_NUMBER	NULL	VARCHAR2 (6)
5	SHIPMENT_NUM	NULL	VARCHAR2 (12)
6	SITE_ID	NOT NULL	VARCHAR2 (2)
7	TYPE_CODE	NOT NULL	VARCHAR2 (3)
8	PACKAGING_NUM	NULL	VARCHAR2 (7)
9	ASPIRATION_METHOD_ID	NULL	VARCHAR2 (1)
10	WST_STRM_PROFILE	NOT NULL	VARCHAR2 (20)
11	CNTR_NUM	NOT NULL	VARCHAR2 (13)
12	PU239_FISS_GM_EQ	NOT NULL	NUMBER (10, 0)
13	HANDLING_CODE	NOT NULL	VARCHAR2 (2)
14	LAYERS_OF_PACKAGING	NOT NULL	NUMBER (3, 0)
15	DECAY_HEAT	NOT NULL	NUMBER (10, 0)
16	DECAY_HEAT_UNCERT	NOT NULL	NUMBER (10, 0)
17	TRU_ALPHA_ACT_CONC	NOT NULL	NUMBER (10, 0)
18	TRU_ALPHA_ACT_CONC_UNCERT	NOT NULL	NUMBER (10, 0)
19	PU239_FISS_GM_EQ_UNCERT	NOT NULL	NUMBER (10, 0)
20	INSERT_USER_ID	NOT NULL	VARCHAR2 (30)
21	INSERT_DATE	NOT NULL	DATE
22	WASTE_TYPE_CODE	NOT NULL	VARCHAR2 (4)
23	TRUC_CODE_ID	NULL	NUMBER (10, 0)
24	LINER_TYPE	NULL	VARCHAR2 (3)
25	ASSEMBLY_ID	NULL	VARCHAR2 (8)
26	WAC_EXCEPT_NUM	NULL	VARCHAR2 (7)
27	TRUC_SHP_CAT_ID	NULL	NUMBER (10, 0)
28	PCB_CONC	NULL	NUMBER (4, 0)
29	PU239_EQ_ACT	NULL	NUMBER (10, 0)

Table Name : WST_CNTRS Alias : WST_CNTR Display Title : Wst Cntrs

Col. Seq	Column	Nulls ?	Type
30	NEUT_DOSE_RATE	NULL	NUMBER (7, 0)
31	ALPHA_SURF_CONT	NULL	NUMBER (10, 0)
32	BG_DOSE_RATE	NULL	NUMBER (7, 0)
33	BETA_GAMMA_SURF_CONT	NULL	NUMBER (10, 0)
34	CLOSURE_DATE	NULL	DATE
35	FILTER_INSTALL_DATE	NULL	DATE
36	FILL_FACTOR	NULL	NUMBER (3, 0)
37	GROSS_WEIGHT	NULL	NUMBER (10, 0)
38	VENT_DATE	NULL	DATE
39	WASTE_WEIGHT	NULL	NUMBER (10, 0)
40	WASTE_WEIGHT_UNCERT	NULL	NUMBER (10, 0)
41	CERT_DATE	NULL	DATE
42	CERT_SITE	NULL	VARCHAR2 (2)
43	DISPOSAL_DATE	NULL	DATE
44	LINER_PUNCTURED	NULL	VARCHAR2 (1)
45	GROSS_WEIGHT_UNCERT	NULL	NUMBER (10, 0)
46	TRU_ALPHA_ACT	NULL	NUMBER (10, 0)
47	TRU_ALPHA_ACT_UNCERT	NULL	NUMBER (10, 0)
48	WAC_REV_NUM	NULL	VARCHAR2 (2)
49	WST_STRM_BIR_ID	NULL	VARCHAR2 (6)
50	WST_STRM_MWIR_ID	NULL	VARCHAR2 (6)
51	GAS_GEN_RATE	NULL	NUMBER (10, 0)
52	GAS_GEN_COMP_DATE	NULL	DATE
53	GAS_HYD_METH_GEN_RATE	NULL	NUMBER (10, 0)
54	RADIONUC_RPT_QTY	NULL	VARCHAR2 (1)
55	RADIONUC_HWY_ROUTE_CONTR_QTY	NULL	VARCHAR2 (1)

Primary Key

Name	Column
WST_CNTR_PK	WST_CNTR_ID

Other Unique Keys

Name	Column
WST_CNTR_WST_CNTR2_UK	CNTR_NUM
WST_CNTR_WST_CNTR2_UK	SITE_ID

Foreign Keys

WST_CNTR_ASSE_FK

ASSEMBLY_ID references ASSEMBLIES.ASSEMBLY_ID

Transferable ? :True ; Mandatory ? :False ; Update Rule :Restricted ; Delete Rule :Cascades ;

Table Name : WST_CNTRS Alias : WST_CNTR Display Title : Wst Cntrs

Foreign Keys

WST_CNTR_RASP_FK

ASPIRATION_METHOD_ID references REF_ASPIRATIONS.ASPIRATION_METHOD_ID

Transferable ? :True ; Mandatory ? :False ; Update Rule :Restricted ; Delete Rule :Cascades ;

WST_CNTR_RCTYP_FK

TYPE_CODE references REF_CONTAINER_TYPES.TYPE_CODE

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

WST_CNTR_RDCSM_FK

DATA_STATUS_CODE references REF_DATA_CNTR_STAT_MTXS.DATA_STATUS_CODE
CNTR_STATUS_CODE references REF_DATA_CNTR_STAT_MTXS.CNTR_STATUS_CODE

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

WST_CNTR_RFMO_FK

FILTER_MODEL_NUMBER references REF_FILTER_MODELS.FILTER_MODEL_NUMBER

Transferable ? :True ; Mandatory ? :False ; Update Rule :Restricted ; Delete Rule :Cascades ;

WST_CNTR_RLINER_FK

LINER_TYPE references REF_LINERS.LINER_TYPE

Transferable ? :True ; Mandatory ? :False ; Update Rule :Restricted ; Delete Rule :Cascades ;

WST_CNTR_RTRUC_FK

TRUC_CODE_ID references REF_TRUCON_CODES_MTX.TRUC_CODE_ID

Transferable ? :True ; Mandatory ? :False ; Update Rule :Restricted ; Delete Rule :Cascades ;

WST_CNTR_RTSCM_FK

TRUC_SHP_CAT_ID references REF_TRUC_SHP_CAT_MTX.TRUC_SHP_CAT_ID

Transferable ? :True ; Mandatory ? :False ; Update Rule :Restricted ; Delete Rule :Cascades ;

WST_CNTR_RWEXC_FK

WAC_EXCEPT_NUM references REF_WAC_EXCEPTS.WAC_EXCEPT_NUM

Transferable ? :True ; Mandatory ? :False ; Update Rule :Restricted ; Delete Rule :Restricted ;

WST_CNTR_RWPROF_FK

WST_STRM_PROFILE references REF_WS_PROFILES.WST_STRM_PROFILE

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

WST_CNTR_SITE_FK

SITE_ID references REF_SITES.SITE_ID

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Restricted ;

WST_CNTR_SPKG_FK

SHIPMENT_NUM references PACKAGING.SHIPMENT_NUM
PACKAGING_NUM references PACKAGING.PACKAGING_NUM

Transferable ? :True ; Mandatory ? :True ; Update Rule :Restricted ; Delete Rule :Cascades ;

Index Summary

Name	Seq.	Column	Unique ?
WST_CNTR_ASSE_FK_I	1	ASSEMBLY_ID	
WST_CNTR_RASP_FK_I	1	ASPIRATION_METHOD_ID	
WST_CNTR_RCTYP_FK_I	1	TYPE_CODE	
WST_CNTR_RDCSM_FK_I	1	DATA_STATUS_CODE	
WST_CNTR_RDCSM_FK_I	2	CNTR_STATUS_CODE	
WST_CNTR_RFMO_FK_I	1	FILTER_MODEL_NUMBER	
WST_CNTR_RLINER_FK_I	1	LINER_TYPE	
WST_CNTR_RTRUC_FK_I	1	TRUC_CODE_ID	

Table Name : WST_CNTRS Alias : WST_CNTR Display Title : Wst Cntrs

Name	Seq.	Column	Unique ?
WST_CNTR_RTSCM_FK_I	1	TRUC_SHP_CAT_ID	
WST_CNTR_RWPROF_FK_I	1	WST_STRM_PROFILE	
WST_CNTR_SPKG_FK_I	1	SHIPMENT_NUM	
WST_CNTR_SPKG_FK_I	2	PACKAGING_NUM	

Designer/2000

TABLE DEFINITION

End of Report

APPENDIX E MODULE DEFINITION

Designer/2000

Report : MODULE DEFINITION (TYPE MENU/SCREEN)

Filename :

Run by SPH

Report Date 29-JUN-96 11:05am

Total Pages : 71

Parameter Values

Application System Name : WWIS
Application System Version : 1
Menu Name : %
Screen Name : %

Short Name: FM0410 **Module:** FM0410

Lang: SQL*FORMS Type: SCREEN Format: MASTER DETAIL

Purpose: Maintenance of reference location data Titles: Maintain Reference Locations

Short Name: DATA ADMIN **Module:** DATA ADMINISTRATION

Lang: Oracle Forms Type: MENU Format:

Purpose: Data Administration Menu Titles:

Short Name: MN0100 **Module:** CHARACTERIZATION

Lang: Oracle Forms Type: MENU Format:

Purpose: Access into the Characterization Module Titles: Characterization

Summary of Menu Options

Menu Option	Module	Type	Purpose	Lang
MN0110	INPUT CHARACTERIZATION DATA	MENU	Allow user to transmit data electronically or	Oracle Forms
MN0140	REVIEW/APPROVE CHARACTERIZATION DATA	MENU	Review/update status code to accepted/rejecte	Oracle Forms
MN0150	CHARACTERIZATION REPORTS	MENU	Allow user to run characterization reports.	Oracle Forms

Menu Option: MN0110 Module: INPUT CHARACTERIZATION DATA

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('cinpwcntr', HIDE, DO_REPLACE);

Purpose: Allow user to transmit data electronically or interactively input. Titles: Input Characterization Data

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	SHIPPER
Group Module Access	CHARZ_APPROVER
Group Module Access	RS_QUERY_ONLY
Group Module Access	QUALITY_ENGR
Group Module Access	EXTERNAL_ANALYST
Group Module Access	SYS_DBA
Group Module Access	WIPP_QUERY_ONLY

Menu Option: MN0140 Module: REVIEW/APPROVE CHARACTERIZATION DATA

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Review/update status code to accepted/rejected Titles: Review and Approve Characterization Data

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	CHARZ_APPROVER

Short Name: MN0100 **Module:** CHARACTERIZATION

Lang: Oracle Forms Type: MENU Format:

Purpose: Access into the Characterization Module Titles: Characterization

Menu Option: MN0150 Module: CHARACTERIZATION REPORTS

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Allow user to run characterization reports. Titles: Characterization Reports

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	SHIPPER
Group Module Access	CHARZ_APPROVER
Group Module Access	RS_QUERY_ONLY
Group Module Access	QUALITY_ENGR
Group Module Access	SYS_DBA
Group Module Access	WIPP_QUERY_ONLY

Short Name: MN0110 **Module:** INPUT CHARACTERIZATION DATA

Lang: Oracle Forms Type: MENU Format:

Purpose: Allow user to transmit data electronically or interactively input. Titles: Input Characterization Data

Summary of Menu Options

Menu Option	Module	Type	Purpose	Lang
MN0120	CHARACTERIZATION DATA ENTRY	MENU	Allow user to input characterization data thr	Oracle Forms
MN0130	CHARACTERIZATION DATA TRANSFER	MENU	Allow user to electronically transfer charact	Oracle Forms

Menu Option: MN0120 Module: CHARACTERIZATION DATA ENTRY

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>',HI , DO_REPLACE);

Purpose: Allow user to input characterization data through screens. Titles: Characterization Data Entry

Menu Option: MN0130 Module: CHARACTERIZATION DATA TRANSFER

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Allow user to electronically transfer characterization data Titles: Characterization Data Transfer

Short Name: MN0140 **Module:** REVIEW/APPROVE CHARACTERIZATION DATA

Lang: Oracle Forms Type: MENU Format:

Purpose: Review/update status code to accepted/rejected Titles: Review and Approve Characterization Data

Short Name: MN0150 **Module:** CHARACTERIZATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Allow user to run characterization reports. Titles: Characterization Reports

Short Name: FM0010 **Module:** MAINTAIN ANALYTES

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_ANALYTES Titles:

Description

.

Notes

Developed by Application Design Wizard from function M_ANALYTES
candidate module because it is a leaf function

.

Short Name: FM0030 **Module:** MAINTAIN SITES

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_R_SITES Titles: Sites

Description

.

Notes

Developed by Application Design Wizard from function M_R_SITES
candidate module because it is an elementary function

.

Short Name: FM0050 **Module:** MAINTAIN NUCLIDES

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_NUCLIDE Titles: Radionuclides

Description
.

Notes
Developed by Application Design Wizard from function M_NUCLIDE
candidate module because it is a leaf function
.

Short Name: FM0070 **Module:** MAINTAIN LINERS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_LINERS Titles: Liners

Description
.

Notes
Developed by Application Design Wizard from function M_LINERS
candidate module because it is a leaf function
.

Short Name: FM0060 **Module:** MAINTAIN ASSAY METHODS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_ASY_METH Titles:

Description

.

Notes

Developed by Application Design Wizard from function M_ASY_METH
candidate module because it is a leaf function

.

Short Name: FM0170 **Module:** MAINTAIN SAMPLE TYPES

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_SAMPL_TY Titles: Sample Types

Description

.

Notes

Developed by Application Design Wizard from function M_SAMPL_TY
candidate module because it is a leaf function

.

Short Name: FM0160 **Module:** MAINTAIN TRUCON CODES

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_TRU_CODE Titles: TRUCON Codes

Description

.

Notes

Developed by Application Design Wizard from function M_TRU_CODE
candidate module because it is a leaf function

.

Short Name: FM0150 **Module:** MAINTAIN CONTAINER TYPES

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_CNT_TYP Titles: Container Types

Description

.

Notes

Developed by Application Design Wizard from function M_CNT_TYP
candidate module because it is a leaf function

.

Short Name: FM0140 **Module:** MAINTAIN PACKAGING

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_PKGING Titles: Packaging

Description
.

Notes
Developed by Application Design Wizard from function M_PKGING
candidate module because it is a leaf function
.

Short Name: FM0130 **Module:** MAINTAIN SHIPPING CATEGORY

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_SHIP_CAT Titles: Shipping Category

Description
.

Notes
Developed by Application Design Wizard from function M_SHIP_CAT
candidate module because it is a leaf function
.

Short Name: FM0120 **Module:** MAINTAIN TRANSPORTERS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_TRANS Titles: Transporters

Description

.

Notes

Developed by Application Design Wizard from function M_TRANS
candidate module because it is a leaf function

.

Short Name: FM0110 **Module:** MAINTAIN WASTE STREAM PROFILES

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_WS_PROF Titles: Waste Stream Profiles

Description

.

Notes

Developed by Application Design Wizard from function M_WS_PROF
candidate module because it is a leaf function

.

Short Name: FM0090 **Module:** MAINTAIN FILTER METHODS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_FILTR_ME Titles: Filter Methods

Description

.

Notes

Developed by Application Design Wizard from function M_FILTR_ME
candidate module because it is a leaf function

.

Short Name: MN0210 **Module:** INPUT CERTIFICATION DATA

Lang: Oracle Forms Type: MENU Format:

Purpose: Input certification data Titles: Input Certification Data

Summary of Menu Options

Menu Option	Module	Type	Purpose	Lang
MN0220	CERTIFICATION DATA ENTRY	MENU	Data Entry screens for Certification	Oracle Forms
MN0230	CERTIFICATION DATA TRANSFER	MENU	Certification data electronic transfer	Oracle Forms

Menu Option: MN0220 Module: CERTIFICATION DATA ENTRY

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Data Entry screens for Certification Titles: Certification Data Entry

Menu Option: MN0230 Module: CERTIFICATION DATA TRANSFER

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Certification data electronic transfer Titles: Certification Data Transfer

Short Name: MN0200 **Module:** CERTIFICATION

Lang: Oracle Forms Type: MENU Format:

Purpose: Main Menu for certification. Titles: Certification

Summary of Menu Options

Menu Option	Module	Type	Purpose	Lang
MN0210	INPUT CERTIFICATION DATA	MENU	Input certification data	Oracle Forms
MN0240	REVIEW/APPROVE CERTIFICATION DATA	MENU	Review and approve certification data	Oracle Forms
MN0250	CERTIFICATION REPORTS	MENU	Certification reports	Oracle Forms

Menu Option: MN0210 Module: INPUT CERTIFICATION DATA

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Input certification data Titles: Input Certification Data

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	SHIPPER
Group Module Access	CERT_APPROVER
Group Module Access	RS_QUERY_ONLY
Group Module Access	QUALITY_ENGR
Group Module Access	EXTERNAL_ANALYST
Group Module Access	SYS_DBA
Group Module Access	WIPP_QUERY_ONLY

Menu Option: MN0240 Module: REVIEW/APPROVE CERTIFICATION DATA

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Review and approve certification data Titles: Review and Approve Certification Data

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	CERT_APPROVER
Group Module Access	SYS_DBA

Short Name: MN0200 **Module:** CERTIFICATION

Lang: Oracle Forms Type: MENU Format:

Purpose: Main Menu for certification. Titles: Certification

Menu Option: MN0250 Module: CERTIFICATION REPORTS

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Certification reports Titles: Certification Reports

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	SHIPPER
Group Module Access	CERT_APPROVER
Group Module Access	RS_QUERY_ONLY
Group Module Access	QUALITY_ENGR
Group Module Access	SYS_DBA
Group Module Access	WIPP_QUERY_ONLY

Short Name: MN0000 **Module:** WWIS MAIN MENU

Lang: Oracle Forms Type: MENU Format:

Purpose: Main menu for WWIS System Titles: WIPP Waste Information System

Summary of Menu Options

Menu Option	Module	Type	Purpose	Lang
MN0500	DATA_ADMINISTRATION	MENU	Data Administration Menu	Oracle Forms

Menu Option: MN0500 Module: DATA_ADMINISTRATION

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('mn0500', HID DO_REPLACE);

Purpose: Data Administration Menu Titles: Data Administration

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR

Short Name: FM0340 **Module:** MAINTAIN SITES/CHARZ METHODS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_SI_CHARZ Titles: Characterization Methods by Site

Description

.

Notes

Developed by Application Design Wizard from function M_SI_CHARZ
candidate module because it is a leaf function

.

Short Name: FM0330 **Module:** MAINTAIN SITES/HAZ CODES

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_SI_HAZ_C Titles: Hazardous Codes by Site

Description

.

Notes

Developed by Application Design Wizard from function M_SI_HAZ_C
candidate module because it is a leaf function

.

Short Name: FM0320 **Module:** MAINTAIN SITES/USERS/AUTHORIZATIONS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_SI_US_AU Titles: Sites/Users/Authorizations

Description

.

Notes

Developed by Application Design Wizard from function M_SI_US_AU
candidate module because it is a leaf function

.

Short Name: FM0310 **Module:** MAINTAIN TRUCON CODE/MATRIX CODE MATRIX

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_TRU_MATX Titles: TRUCON/Matrix Codes

Description

.

Notes

Developed by Application Design Wizard from function M_TRU_MATX
candidate module because it is a leaf function

.

Short Name: FM0290 **Module:** MAINTAIN IDCS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_IDC Titles: Item Description Codes

Description

.

Notes

Developed by Application Design Wizard from function M_IDC
candidate module because it is a leaf function

.

Short Name: MN0450 **Module:** REPACKAGE CONTAINERS

Lang: Oracle Forms Type: MENU Format:

Purpose: Repackage containers Titles: Repackage Containers

Short Name: MN0440 **Module:** INVENTORY REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Inventory Reports Titles: Inventory Reports

Short Name: MN0430 **Module:** ENTER LOCATION DATA

Lang: Oracle Forms Type: MENU Format:

Short Name: MN0420 **Module:** UPLOAD BARCODE DATA

Lang: Oracle Forms Type: MENU Format:

Purpose: Upload location data from readers into WWIS Titles: Upload Barcode Data

Short Name: MN0410 **Module:** DOWNLOAD BARCODE DATA

Lang: Oracle Forms Type: MENU Format:

Purpose: Download Barcode Data to the Readers Titles: Download Barcode Data

Short Name: MN0400 **Module:** INVENTORY

Lang: Oracle Forms Type: MENU Format:

Purpose: Main menu for inventory Titles: Inventory

Summary of Menu Options

Menu Option	Module	Type	Purpose	Lang
MN0410	DOWNLOAD BARCODE DATA	MENU	Download Barcode Data to the Readers	Oracle Forms
MN0420	UPLOAD BARCODE DATA	MENU	Upload location data from readers into WWIS	Oracle Forms
MN0430	ENTER LOCATION DATA	MENU	Enter location data for inventory	Oracle Forms
MN0440	INVENTORY REPORTS	MENU	Inventory Reports	Oracle Forms
MN0450	REPACKAGE CONTAINERS	MENU	Repackage containers	Oracle Forms

Menu Option: MN0410 Module: DOWNLOAD BARCODE DATA

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Download Barcode Data to the Readers Titles: Download Barcode Data

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	WIPP_OPERATIONS
Group Module Access	SYS_DBA

Menu Option: MN0420 Module: UPLOAD BARCODE DATA

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Upload location data from readers into WWIS Titles: Upload Barcode Data

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	WIPP_OPERATIONS
Group Module Access	SYS_DBA

Short Name: MN0400 **Module:** INVENTORY

Lang: Oracle Forms Type: MENU Format:

Purpose: Main menu for inventory **Titles: Inventory**

Menu Option: MN0430 Module: ENTER LOCATION DATA

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Enter location data for inventory Titles: Enter Location Data

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	WIPP_OPERATIONS
Group Module Access	SYS_DBA
Group Module Access	WIPP_QUERY_ONLY

Menu Option: MN0440 Module: INVENTORY REPORTS

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Inventory Reports Titles: Inventory Reports

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	WIPP_OPERATIONS
Group Module Access	QUALITY_ENGR
Group Module Access	SYS_DBA
Group Module Access	WIPP_QUERY_ONLY

Short Name: MN0400 **Module:** INVENTORY

Lang: Oracle Forms Type: MENU Format:

Purpose: Main menu for inventory Titles: Inventory

Menu Option: MN0450 Module: REPACKAGE CONTAINERS

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Repackage containers Titles: Repackage Containers

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	WIPP_OPERATIONS
Group Module Access	SYS_DBA

Short Name: MN0350 **Module:** SHIPPING REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Shipping Reports Titles: Shipping Reports

Short Name: MN0340 **Module:** REVIEW/APPROVE SHIPPING DATA

Lang: Oracle Forms Type: MENU Format:

Purpose: Review and approve shipping data Titles: Review and Approve Shipping Data

Short Name: FM0390 **Module:** BARCODE INTERFACE

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: IBCINTER Titles:

Description

.

Notes

Developed by Application Design Wizard from function IBCINTER
candidate module because it is an elementary function

.

Short Name: FM0380 **Module:** RECEIVE SHIPMENT

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: ISHIPRECD Titles:

Description

.

Notes

Developed by Application Design Wizard from function ISHIPRECD
candidate module because it is an elementary function

.

Short Name: FM0240 **Module:** MAINTAIN TEMPORARY AND PERMANENT LOCATIO

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_LOC Titles:

Description

.

Notes

Developed by Application Design Wizard from function M_LOC
candidate module because it is an elementary function

.

Short Name: FM0200 **Module:** MAINTAIN WAC EXCEPTIONS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_WAC_EXCP Titles:

Description

.

Notes

Developed by Application Design Wizard from function M_WAC_EXCP
candidate module because it is a leaf function

.

Short Name: FM0360 **Module:** INPUT WASTE CONTAINER DATA

Lang: Oracle Forms Type: SCREEN Format:

Purpose: Input characterization data - waste container & dependent forms Titles:

Description

.

Notes

Developed by Application Design Wizard from function CINPWCNTR
candidate module because it is a leaf function

.

Short Name: FM0100 **Module:** MAINTAIN ASPIRATIIONS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_ASPIR Titles:

Description

.

Notes

Developed by Application Design Wizard from function M_ASPIR
candidate module because it is a leaf function

.

Short Name: MN0520 **Module:** DATA ADMINISTRATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Produce reports for reference tables. Titles:

Summary of Menu Options

Menu Option	Module	Type	Purpose	Lang
RP0010	RP0010	REPORT	List REF_ Table.	Oracle Reports
RP0100	RP0100	REPORT	List Aspiration Reference Data	Oracle Reports
RP0060	RP0060	REPORT	List Assay Method Reference Data	Oracle Reports
RP0270	RP0270	REPORT	List Valid Assay Methods By Site	Oracle Reports
RP0040	RP0040	REPORT	List Authorizations	Oracle Reports
RP0180	RP0180	REPORT	List Valid Characterization Methods	Oracle Reports
RP0340	RP0340	REPORT	List Valid Site/Characterization Methods	Oracle Reports
RP0150	RP0150	REPORT	List Valid Container Types	Oracle Reports
RP0220	RP0220	REPORT	List Container Status Codes	Oracle Reports
RP0210	RP0210	REPORT	List Data Status Codes	Oracle Reports
RP0280	RP0280	REPORT	List Valid Data/Container Status Codes	Oracle Reports
RP0090	RP0090	REPORT	List Filter Method Reference Data	Oracle Reports
RP0190	RP0190	REPORT	List Valid Hazardous Codes	Oracle Reports
RP0330	RP0330	REPORT	List Valid Site/Hazardous Codes	Oracle Reports
RP0290	RP0290	REPORT	List Valid Item Description Codes	Oracle Reports
RP0070	RP0070	REPORT	List Liner Type Reference Data	Oracle Reports
RP0230	RP0230	REPORT	List Valid Waste Material Parameters	Oracle Reports
RP0080	RP0080	REPORT	List Matrix Code Reference Data	Oracle Reports
RP0140	RP0140	REPORT	List Packaging Reference Data	Oracle Reports
RP0260	RP0260	REPORT	List Valid Packaging/Container Codes	Oracle Reports
RP0050	RP0050	REPORT	List Valid Nuclides	Oracle Reports
RP0170	RP0170	REPORT	List Valid Sample Types	Oracle Reports
RP0130	RP0130	REPORT	List Valid Shipping Categories	Oracle Reports
RP0030	RP0030	REPORT	List valid sites	Oracle Reports
RP0320	RP0320	REPORT	List Sites/Users/Authorization Data	Oracle Reports
RP0120	RP0120	REPORT	List valid transporters	Oracle Reports
RP0160	RP0160	REPORT	List Valid TRUCON Codes	Oracle Reports
RP0350	RP0350	REPORT	List Valid TRUCON Code/Shipping Category Data	Oracle Reports
RP0310	RP0310	REPORT	List Valid TRUCON/Waste Matrix Codes	Oracle Reports
RP0020	RP0020	REPORT	List valid users	Oracle Reports
RP0200	RP0200	REPORT	List Valid WAC Exceptions	Oracle Reports
RP0110	RP0110	REPORT	List Valid Waste Stream Numbers	Oracle Reports

Short Name: MN0520 **Module:** DATA ADMINISTRATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Produce reports for reference tables. Titles:

Menu Option: RP0010 Module: RP0010

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0010' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List REF_ Table. Titles: List Valid Analytes

Menu Option: RP0100 Module: RP0100

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0010' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List Aspiration Reference Data Titles: List Valid Aspiration Methods

Menu Option: RP0060 Module: RP0060

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0060' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List Assay Method Reference Data Titles: List Valid Assay Methods

Short Name: MN0520 **Module:** DATA ADMINISTRATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Produce reports for reference tables. Titles:

Menu Option: RP0270 Module: RP0270

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0027' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List Valid Assay Methods By Site Titles: List Valid Assay Methods by Site

Menu Option: RP0040 Module: RP0040

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0040' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List Authorizations Titles: List Authorizations Methods

Menu Option: RP0180 Module: RP0180

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0060' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List Valid Characterization Methods Titles: List Valid Characterization Methods

Short Name: MN0520 **Module:** DATA ADMINISTRATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Produce reports for reference tables. Titles:

Menu Option: RP0340 Module: RP0340

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0340' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUL ;

Purpose: List Valid Site/Characterization Methods Titles: List Valid Site/ Characterization Methods

Menu Option: RP0150 Module: RP0150

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0150' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUL ;

Purpose: List Valid Container Types Titles: List Valid Container Types

Menu Option: RP0220 Module: RP0220

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0220' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUL ;

Purpose: List Container Status Codes Titles: List Valid Container Status Codes

Short Name: MN0520 **Module:** DATA ADMINISTRATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Produce reports for reference tables. Titles:

Menu Option: RP0210 Module: RP0210

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0210' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUL ;

Purpose: List Data Status Codes Titles: List Valid Data Status Codes

Menu Option: RP0280 Module: RP0280

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0280' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUL ;

Purpose: List Valid Data/Container Status Codes Titles: List Valid Data/ Container Status Codes

Menu Option: RP0090 Module: RP0090

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0090' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUL ;

Purpose: List Filter Method Reference Data Titles: List Valid Filter Models

Short Name: MN0520 **Module:** DATA ADMINISTRATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Produce reports for reference tables. Titles:

Menu Option: RP0190 Module: RP0190

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0190' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List Valid Hazardous Codes Titles: List Valid Hazardous Codes

Menu Option: RP0330 Module: RP0330

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0330' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List Valid Site/Hazardous Codes Titles: List Valid Site/ Hazardous Codes

Menu Option: RP0290 Module: RP0290

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0290' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List Valid Item Description Codes Titles: List Valid Item Discription Codes

Short Name: MN0520 **Module:** DATA ADMINISTRATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Produce reports for reference tables. Titles:

Menu Option: RP0070 Module: RP0070

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0070' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List Liner Type Reference Data Titles: List Valid Liner Types

Menu Option: RP0230 Module: RP0230

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0230' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List Valid Waste Material Parameters Titles: List Valid Waste Material Parameters

Menu Option: RP0080 Module: RP0080

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0080' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List Matrix Code Reference Data Titles: List Valid Matrix Codes

Short Name: MN0520 **Module:** DATA ADMINISTRATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Produce reports for reference tables. Titles:

Menu Option: RP0140 Module: RP0140

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0140' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUL ;

Purpose: List Packaging Reference Data Titles: List Valid Packaging Reference Data

Menu Option: RP0260 Module: RP0260

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0260' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUL ;

Purpose: List Valid Packaging/Container Codes Titles: List Valid Packaging/ Container Codes

Menu Option: RP0050 Module: RP0050

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0050' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUL ;

Purpose: List Valid Nuclides Titles: List Valid Nuclides

Short Name: MN0520 **Module:** DATA ADMINISTRATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Produce reports for reference tables. Titles:

Menu Option: RP0170 Module: RP0170

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0170' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUI ;

Purpose: List Valid Sample Types Titles: List Valid Sample Types

Menu Option: RP0130 Module: RP0130

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0130' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUI ;

Purpose: List Valid Shipping Categories Titles: List Valid Shipping Categories

Menu Option: RP0030 Module: RP0030

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0030' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUI ; ,

Purpose: List valid sites Titles: List Valid Sites

Short Name: MN0520 **Module:** DATA ADMINISTRATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Produce reports for reference tables. Titles:

Menu Option: RP0320 Module: RP0320

Lang: Oracle Reports Type: REPORT

Format: Comand: RUN_PRODUCT (REPORTS, 'RP0320' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List Sites/Users/Authorization Data

Titles: List Valid Sites/Users Authorizations

Menu Option: RP0120 Module: RP0120

Lang: Oracle Reports Type: REPORT

Format: Comand: RUN_PRODUCT (REPORTS, 'RP0120' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL;

Purpose: List valid transporters

Titles: List Valid Transporters

Menu Option: RP0160 Module: RP0160

Lang: Oracle Reports Type: REPORT

Format: Comand: RUN_PRODUCT (REPORTS, 'RP0160' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL

Purpose: List Valid TRUCON Codes

Titles: List Valid TRUCON Codes

Short Name: MN0520 **Module:** DATA ADMINISTRATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Produce reports for reference tables. Titles:

Menu Option: RP0350 Module: RP0350

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0350' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL

Purpose: List Valid TRUCON Code/Shipping Category Data Titles: List Valid TRUCON Codes/Shipping Categories;

Menu Option: RP0310 Module: RP0310

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0310' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL

Purpose: List Valid TRUCON/Waste Matrix Codes Titles: List Valid TRUCON/Waste Matrix Codes ;

Menu Option: RP0020 Module: RP0020

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0020' ,SYNCHRONOUS, RUIME, FILESYSTEM, NULL,NUL

Purpose: List valid users Titles: List Valid Users ;

Short Name: MN0520 **Module:** DATA ADMINISTRATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Produce reports for reference tables. Titles:

Menu Option: RP0200 Module: RP0200

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0200' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUL ;

Purpose: List Valid WAC Exceptions Titles: List Valid WAC Exceptions

Menu Option: RP0110 Module: RP0110

Lang: Oracle Reports Type: REPORT Format: Comand: RUN_PRODUCT (REPORTS, 'RP0110' ,SYNCHRONOUS, RU IME, FILESYSTEM, NULL,NUL ;

Purpose: List Valid Waste Stream Numbers Titles: List Valid Waste Stream Numbers

Short Name: FM0370 **Module:** TRANSMIT CHAZACTERIZATION DATA

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: CSELCNTRS Titles:

Description

.
The user will be logged into the WWIS application; they will then log into their database where the tmp tables reside. This function will query their tmp_wst_cntrs table and display the cntr_nums.

Notes

Developed by Application Design Wizard from function CSELCNTRS candidate module because it is an elementary function

Short Name: FM0470 **Module:** FM0470

Lang: Oracle Forms Type: SCREEN Format:

Purpose: Input certification data - waste container and dependent forms **Titles:**

Description

.

Notes

Developed by Application Design Wizard from function CINPWCNTR
candidate module because it is a leaf function

.

Short Name: FM0460 **Module:** WASTE CONTAINER CONCENTRATION LIMITS BY

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: LSMCONCK Titles:

Description

.

Notes

Developed by Application Design Wizard from function LSMCONCK
candidate module because it is an elementary function

.

Short Name: FM0440 **Module:** WASTE CONTAINER DOSE RATE LIMITS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: LWCDRCK Titles:

Description

.

Notes

Developed by Application Design Wizard from function LWCDRCK
candidate module because it is an elementary function

.

Short Name: FM0450 **Module:** WASTE CONTAINER SAMPLE AMOUNT LIMITS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: LWCSMPCK Titles:

Description

.

Notes

Developed by Application Design Wizard from function LWCSMPCK
candidate module because it is an elementary function

.

Short Name: FM0430 **Module:** INPUT CHARZ DATA

Lang: Oracle Forms Type: SCREEN Format:

Purpose: Input characterization data - waste container and dependent forms Titles:

Description

.

Notes

Developed by Application Design Wizard from function CINPWCNTR candidate module because it is a leaf function

.

Short Name: INP_CNTRS **Module:** INP_CNTRS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: CINPWCNTR Titles:

Description

.

Notes

Developed by Application Design Wizard from function CINPWCNTR candidate module because it is a leaf function

.

Short Name: FM0420 **Module:** FM0420

Lang: Oracle Forms Type: SCREEN Format:

Purpose: Correct invalid location records coming from barcode reader Titles: Correct Bad Locations

Short Name: FM0400 **Module:** MAINTAIN LOCATION INFORMATION

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: IMAINTLOC Titles:

Description

.

Notes

Developed by Application Design Wizard from function IMAINTLOC
candidate module because it is an elementary function

.

Short Name: FM0350 **Module:** MAINTAIN TRUCON CODE/SHIPPING CATEGORY M

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_TR_SH_MX Titles:

Description

.

Notes

Developed by Application Design Wizard from function M_TR_SH_MX
candidate module because it is a leaf function

.

Short Name: MN0700 **Module:** REGULATORY_REPORTING

Lang: Oracle Forms Type: MENU Format:

Purpose: Provide online capability for regulatory reports Titles:

Short Name: MAIN_MEN **Module:** MAIN_MEN

Lang: Oracle Forms Type: SCREEN Format: MASTER DETAIL

Purpose: WIPP Waste Information System Titles: WIPP Waste Information System

Notes
Reverse engineered on 08-APR-96 by user TMT
using Oracle Forms Generator version 4.5.8.3.0

Short Name: MN0610 **Module:** DECAY ANALYSIS REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Decay Analysis Reports Titles: Decay Analysis Reports

Short Name: MN0600 **Module:** DECAY ANALYSIS

Lang: Oracle Forms Type: MENU Format:

Purpose: Decay Analysis Menu Titles: Decay Analysis

Summary of Menu Options

Menu Option	Module	Type	Purpose	Lang
MN0610	DECAY ANALYSIS REPORTS	MENU	Decay Analysis Reports	Oracle Forms

Menu Option: MN0610 Module: DECAY ANALYSIS REPORTS

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Decay Analysis Reports Titles: Decay Analysis Reports

Short Name: MN0530 **Module:** DATA ADMINISTRATION CHANGE LOG REPORTING

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration change log reporting Titles: Data Administration Change Log Reporting

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Summary of Menu Options

Menu Option	Module	Type	Purpose	Lang
FM0010	MAINTAIN ANALYTES	SCREEN	To Support functions: M_ANALYTES	Oracle Forms
FM0060	MAINTAIN ASSAY METHODS	SCREEN	To Support functions: M_ASY_METH	Oracle Forms
FM0270	MAINTAIN ASSAY METHODS BY SITE	SCREEN	To Support functions: M_R_SASY_M	Oracle Forms
FM0040	MAINTAIN AUTHORIZATIONS (ROLES)	SCREEN	To Support functions: M_AUTH	Oracle Forms
FM0180	MAINTAIN CHARACTERIZATION METHODS	SCREEN	To Support functions: M_CHARZ_ME	Oracle Forms
FM0340	MAINTAIN SITES/CHARZ METHODS	SCREEN	To Support functions: M_SI_CHARZ	Oracle Forms
FM0150	MAINTAIN CONTAINER TYPES	SCREEN	To Support functions: M_CNT_TYP	Oracle Forms
FM0220	MAINTAIN CONTAINER STATUS CODES	SCREEN	To Support functions: M_CNTR_ST	Oracle Forms
FM0210	MAINTAIN DATA STATUS CODES	SCREEN	To Support functions: M_DATA_ST	Oracle Forms
FM0280	MAINTAIN DATA/CONTAINER STATUS CODES	SCREEN	To Support functions: M_ST_DA_CN	Oracle Forms
FM0090	MAINTAIN FILTER METHODS	SCREEN	To Support functions: M_FILTR_ME	Oracle Forms
FM0190	MAINTAIN HAZARDOUS CODES	SCREEN	To Support functions: M_HAZ_CODE	Oracle Forms
FM0330	MAINTAIN SITES/HAZ CODES	SCREEN	To Support functions: M_SI_HAZ_C	Oracle Forms
FM0290	MAINTAIN IDCS	SCREEN	To Support functions: M_IDC	Oracle Forms
FM0070	MAINTAIN LINERS	SCREEN	To Support functions: M_LINERS	Oracle Forms
FM0230	MAINTAIN MATERIAL PARAMETERS	SCREEN	To Support functions: M_MAT_PARM	Oracle Forms
FM0080	MAINTAIN MATRIX CODES	SCREEN	To Support functions: M_MATX_COD	Oracle Forms
FM0140	MAINTAIN PACKAGING	SCREEN	To Support functions: M_PKGING	Oracle Forms
FM0260	MAINTAIN PACKAGING/CONTAINER MTX	SCREEN	To Support functions: M_PK_CNT_M	Oracle Forms
FM0050	MAINTAIN NUCLIDES	SCREEN	To Support functions: M_NUCLIDE	Oracle Forms
FM0170	MAINTAIN SAMPLE TYPES	SCREEN	To Support functions: M_SAMPL_TY	Oracle Forms
FM0130	MAINTAIN SHIPPING CATEGORY	SCREEN	To Support functions: M_SHIP_CAT	Oracle Forms
FM0030	MAINTAIN SITES	SCREEN	To Support functions: M_R_SITES	Oracle Forms
FM0320	MAINTAIN SITES/USERS/AUTHORIZATIONS	SCREEN	To Support functions: M_SI_US_AU	Oracle Forms
FM0120	MAINTAIN TRANSPORTERS	SCREEN	To Support functions: M_TRANS	Oracle Forms
FM0160	MAINTAIN TRUCON CODES	SCREEN	To Support functions: M_TRU_CODE	Oracle Forms
FM0350	MAINTAIN TRUCON CODE/SHIPPING CATEGORY M	SCREEN	To Support functions: M_TR_SH_MX	Oracle Forms
FM0310	MAINTAIN TRUCON CODE/MATRIX CODE MATRIX	SCREEN	To Support functions: M_TRU_MATX	Oracle Forms

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option	Module	Type	Purpose	Lang
FM0110	MAINTAIN WASTE STREAM PROFILES	SCREEN	To Support functions: M_WS_PROF	Oracle Forms

Menu Option: FM0010 Module: MAINTAIN ANALYTES

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0010',hide o_replace);

Purpose: To Support functions: M_ANALYTES Titles:

Description

.

Notes

Developed by Application Design Wizard from function M_ANALYTES candidate module because it is a leaf function

.

Menu Option: FM0060 Module: MAINTAIN ASSAY METHODS

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0060',hide o_replace);

Purpose: To Support functions: M_ASY_METH Titles:

Description

.

Notes

Developed by Application Design Wizard from function M_ASY_METH candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0270 Module: MAINTAIN ASSAY METHODS BY SITE

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0270',hide o_replace);

Purpose: To Support functions: M_R_SASY_M Titles: Assay Methods by Site

Description

.

Notes

Developed by Application Design Wizard from function M_R_SASY_M
candidate module because it is a leaf function

.

Menu Option: FM0040 Module: MAINTAIN AUTHORIZATIONS (ROLES)

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0040',hide o_replace);

Purpose: To Support functions: M_AUTH Titles: Authorizations

Description

.

Notes

Developed by Application Design Wizard from function M_AUTH
candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0180 Module: MAINTAIN CHARACTERIZATION METHODS

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0180',hide o_replace);

Purpose: To Support functions: M_CHARZ_ME Titles: Characterization Methods

Description

.

Notes

Developed by Application Design Wizard from function M_CHARZ_ME
candidate module because it is a leaf function

.

Menu Option: FM0340 Module: MAINTAIN SITES/CHARZ METHODS

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0340',hide o_replace);

Purpose: To Support functions: M_SI_CHARZ Titles: Characterization Methods by Site

Description

.

Notes

Developed by Application Design Wizard from function M_SI_CHARZ
candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0150 Module: MAINTAIN CONTAINER TYPES

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0150',hide o_replace);

Purpose: To Support functions: M_CNT_TYP Titles: Container Types

Description

.

Notes

Developed by Application Design Wizard from function M_CNT_TYP
candidate module because it is a leaf function

.

Menu Option: FM0220 Module: MAINTAIN CONTAINER STATUS CODES

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0220',hide o_replace);

Purpose: To Support functions: M_CNTR_ST Titles: Container Status Codes

Description

.

Notes

Developed by Application Design Wizard from function M_CNTR_ST
candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0210 Module: MAINTAIN DATA STATUS CODES

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0210',hide o_replace);

Purpose: To Support functions: M_DATA_ST Titles: Data Status Codes

Description

.

Notes

Developed by Application Design Wizard from function M_DATA_ST
candidate module because it is a leaf function

.

Menu Option: FM0280 Module: MAINTAIN DATA/CONTAINER STATUS CODES

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0280',hide o_replace);

Purpose: To Support functions: M_ST_DA_CN Titles: Data/Container Status Codes

Description

.

Notes

Developed by Application Design Wizard from function M_ST_DA_CN
candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0090 Module: MAINTAIN FILTER METHODS

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0090',hide o_replace);

Purpose: To Support functions: M_FILTR_ME Titles: Filter Methods

Description

.

Notes

Developed by Application Design Wizard from function M_FILTR_ME
candidate module because it is a leaf function

.

Menu Option: FM0190 Module: MAINTAIN HAZARDOUS CODES

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0190',hide o_replace);

Purpose: To Support functions: M_HAZ_CODE Titles: Hazardous Codes

Description

.

Notes

Developed by Application Design Wizard from function M_HAZ_CODE
candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0330 Module: MAINTAIN SITES/HAZ CODES

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0330',hide o_replace);

Purpose: To Support functions: M_SI_HAZ_C Titles: Hazardous Codes by Site

Description

.

Notes

Developed by Application Design Wizard from function M_SI_HAZ_C
candidate module because it is a leaf function

.

Menu Option: FM0290 Module: MAINTAIN IDCS

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0290',hide o_replace);

Purpose: To Support functions: M_IDC Titles: Item Description Codes

Description

.

Notes

Developed by Application Design Wizard from function M_IDC
candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0070 Module: MAINTAIN LINERS

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0070',hide o_replace);

Purpose: To Support functions: M_LINERS Titles: Liners

Description

.

Notes

Developed by Application Design Wizard from function M_LINERS
candidate module because it is a leaf function

.

Menu Option: FM0230 Module: MAINTAIN MATERIAL PARAMETERS

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0230',hide o_replace);

Purpose: To Support functions: M_MAT_PARM Titles: Material Parameters

Description

.

Notes

Developed by Application Design Wizard from function M_MAT_PARM
candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0080 Module: MAINTAIN MATRIX CODES

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0080',hide o_replace);

Purpose: To Support functions: M_MATX_COD Titles: Matrix Codes

Description

.

Notes

Developed by Application Design Wizard from function M_MATX_COD
candidate module because it is a leaf function

.

Menu Option: FM0140 Module: MAINTAIN PACKAGING

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0140',hide o_replace);

Purpose: To Support functions: M_PKGING Titles: Packaging

Description

.

Notes

Developed by Application Design Wizard from function M_PKGING
candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0260 Module: MAINTAIN PACKAGING/CONTAINER MTX

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0260',hide o_replace);

Purpose: To Support functions: M_PK_CNT_M Titles: Packaging/Container Types

Description

.

Notes

Developed by Application Design Wizard from function M_PK_CNT_M
candidate module because it is a leaf function

.

Menu Option: FM0050 Module: MAINTAIN NUCLIDES

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0050',hide o_replace);

Purpose: To Support functions: M_NUCLIDE Titles: Radionuclides

Description

.

Notes

Developed by Application Design Wizard from function M_NUCLIDE
candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0170 Module: MAINTAIN SAMPLE TYPES

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0170',hide o_replace);

Purpose: To Support functions: M_SAMPL_TY Titles: Sample Types

Description

.

Notes

Developed by Application Design Wizard from function M_SAMPL_TY
candidate module because it is a leaf function

.

Menu Option: FM0130 Module: MAINTAIN SHIPPING CATEGORY

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0130',hide o_replace);

Purpose: To Support functions: M_SHIP_CAT Titles: Shipping Category

Description

.

Notes

Developed by Application Design Wizard from function M_SHIP_CAT
candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0030 Module: MAINTAIN SITES

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0030',hide o_replace);

Purpose: To Support functions: M_R_SITES Titles: Sites

Description

.

Notes

Developed by Application Design Wizard from function M_R_SITES
candidate module because it is an elementary function

.

Menu Option: FM0320 Module: MAINTAIN SITES/USERS/AUTHORIZATIONS

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0320',hide o_replace);

Purpose: To Support functions: M_SI_US_AU Titles: Sites/Users/Authorizations

Description

.

Notes

Developed by Application Design Wizard from function M_SI_US_AU
candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0120 Module: MAINTAIN TRANSPORTERS

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0120',hide o_replace);

Purpose: To Support functions: M_TRANS Titles: Transporters

Description

.

Notes

Developed by Application Design Wizard from function M_TRANS
candidate module because it is a leaf function

.

Menu Option: FM0160 Module: MAINTAIN TRUCON CODES

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0160',hide o_replace);

Purpose: To Support functions: M_TRU_CODE Titles: TRUCON Codes

Description

.

Notes

Developed by Application Design Wizard from function M_TRU_CODE
candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0350 Module: MAINTAIN TRUCON CODE/SHIPPING CATEGORY M

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0350',hide o_replace);

Purpose: To Support functions: M_TR_SH_MX Titles:

Description

.

Notes

Developed by Application Design Wizard from function M_TR_SH_MX
candidate module because it is a leaf function

.

Menu Option: FM0310 Module: MAINTAIN TRUCON CODE/MATRIX CODE MATRIX

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0310',hide o_replace);

Purpose: To Support functions: M_TRU_MATX Titles: TRUCON/Matrix Codes

Description

.

Notes

Developed by Application Design Wizard from function M_TRU_MATX
candidate module because it is a leaf function

.

Short Name: MN0510 **Module:** DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format:

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Menu Option: FM0020 Module: MAINTAIN USERS

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0020',hide o_replace);

Purpose: To Support functions: M_USERS Titles: Users

Description

.

Notes

Developed by Application Design Wizard from function M_USERS
candidate module because it is a leaf function

.

Menu Option: FM0110 Module: MAINTAIN WASTE STREAM PROFILES

Lang: Oracle Forms Type: SCREEN Format: Command: call_form('fm0110',hide o_replace);

Purpose: To Support functions: M_WS_PROF Titles: Waste Stream Profiles

Description

.

Notes

Developed by Application Design Wizard from function M_WS_PROF
candidate module because it is a leaf function

.

Short Name: MN0500 **Module:** DATA_ADMINISTRATION

Lang: Oracle Forms Type: MENU Format:

Purpose: Data Administration Menu Titles: Data Admi stration

Summary of Menu Options

Menu Option	Module	Type	Purpose	Lang
MN0510	DATA ADMINISTRATION REFERENCE FORMS	MENU	Data administration reference form menu	Oracle Forms
MN0520	DATA ADMINISTRATION REPORTS	MENU	Produce reports for reference tables.	Oracle Forms

Menu Option: MN0510 Module: DATA ADMINISTRATION REFERENCE FORMS

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('mn0510', HID NO_REPLACE);

Purpose: Data administration reference form menu Titles: Maintain Reference Data

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	QUALITY_ENGR
Group Module Access	SYS_DBA

Menu Option: MN0520 Module: DATA ADMINISTRATION REPORTS

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Produce reports for reference tables. Titles:

Short Name: MN0330 **Module:** SHIPPING DATA TRANSFER

Lang: Oracle Forms Type: MENU Format:

Short Name: MN0320 **Module:** SHIPPING DATA ENTRY

Lang: Oracle Forms Type: MENU Format:

Purpose: Shipping Data Entry Screens Titles: Shipping Data Entry

Short Name: MN0310 **Module:** INPUT SHIPPING DATA

Lang: Oracle Forms Type: MENU Format:

Purpose: Shipping Data Input Titles: Input Shipping Data

Summary of Menu Options

Menu Option	Module	Type	Purpose	Lang
MN0320	SHIPPING DATA ENTRY	MENU	Shipping Data Entry Screens	Oracle Forms
MN0330	SHIPPING DATA TRANSFER	MENU	Shipping Data Transmittal	Oracle Forms

Menu Option: MN0320 Module: SHIPPING DATA ENTRY

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Shipping Data Entry Screens Titles: Shipping Data Entry

Menu Option: MN0330 Module: SHIPPING DATA TRANSFER

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Shipping Data Transmittal Titles: Shipping Data Transfer

Short Name: MN0300 **Module:** SHIPPING

Lang: Oracle Forms Type: MENU Format:

Purpose: Shipping Menu Titles: Shipping

Summary of Menu Options

Menu Option	Module	Type	Purpose	Lang
MN0310	INPUT SHIPPING DATA	MENU	Shipping Data Input	Oracle Forms
MN0340	REVIEW/APPROVE SHIPPING DATA	MENU	Review and approve shipping data	Oracle Forms
MN0350	SHIPPING REPORTS	MENU	Shipping Reports	Oracle Forms

Menu Option: MN0310 Module: INPUT SHIPPING DATA

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Shipping Data Input Titles: Input Shipping Data

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	SHIPPER
Group Module Access	SHIPPING_APPROVER
Group Module Access	RS_QUERY_ONLY
Group Module Access	QUALITY_ENGR
Group Module Access	EXTERNAL_ANALYST
Group Module Access	SYS_DBA
Group Module Access	WIPP_QUERY_ONLY

Menu Option: MN0340 Module: REVIEW/APPROVE SHIPPING DATA

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Review and approve shipping data Titles: Review and Approve Shipping Data

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	SHIPPING_APPROVER
Group Module Access	SYS_DBA

Short Name: MN0300 **Module:** SHIPPING

Lang: Oracle Forms Type: MENU Format:

Purpose: Shipping Menu Titles: Shipping

Menu Option: MN0350 Module: SHIPPING REPORTS

Lang: Oracle Forms Type: MENU Format: Command: CALL_FORM('<MODULE>', HIDE, DO_REPLACE);

Purpose: Shipping Reports Titles: Shipping Reports

Module Access Type	Name
Group Module Access	DATA_ADMINISTRATOR
Group Module Access	SHIPPER
Group Module Access	SHIPPING_APPROVER
Group Module Access	RS_QUERY_ONLY
Group Module Access	QUALITY_ENGR
Group Module Access	SYS_DBA
Group Module Access	WIPP_QUERY_ONLY

Short Name: MN0250 **Module:** CERTIFICATION REPORTS

Lang: Oracle Forms Type: MENU Format:

Purpose: Certification reports Titles: Certification Reports

Short Name: MN0240 **Module:** REVIEW/APPROVE CERTIFICATION DATA

Lang: Oracle Forms Type: MENU Format:

Purpose: Review and approve certification data Titles: Review and Approve Certification Data

Short Name: MN0230 **Module:** CERTIFICATION DATA TRANSFER

Lang: Oracle Forms Type: MENU Format:

Purpose: Certification data electronic transfer Titles: Certification Data Transfer

Short Name: MN0220 **Module:** CERTIFICATION DATA ENTRY

Lang: Oracle Forms Type: MENU Format:

Purpose: Data Entry screens for Certification Titles: Certification Data Entry

Short Name: FM0280 **Module:** MAINTAIN DATA/CONTAINER STATUS CODES

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_ST_DA_CN Titles: Data/Container Status Codes

Description

.

Notes

Developed by Application Design Wizard from function M_ST_DA_CN
candidate module because it is a leaf function

.

Short Name: FM0270 **Module:** MAINTAIN ASSAY METHODS BY SITE

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_R_SASY_M Titles: Assay Methods by Site

Description

.

Notes

Developed by Application Design Wizard from function M_R_SASY_M
candidate module because it is a leaf function

.

Short Name: FM0260 **Module:** MAINTAIN PACKAGING/CONTAINER MTX

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_PK_CNT_M Titles: Packaging/Container Types

Description

.

Notes

Developed by Application Design Wizard from function M_PK_CNT_M
candidate module because it is a leaf function

.

Short Name: FM0230 **Module:** MAINTAIN MATERIAL PARAMETERS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_MAT_PARM Titles: Material Parameters

Description

.

Notes

Developed by Application Design Wizard from function M_MAT_PARM
candidate module because it is a leaf function

.

Short Name: FM0220 **Module:** MAINTAIN CONTAINER STATUS CODES

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_CNTR_ST Titles: Container Status Codes

Description

.

Notes

Developed by Application Design Wizard from function M_CNTR_ST
candidate module because it is a leaf function

.

Short Name: FM0210 **Module:** MAINTAIN DATA STATUS CODES

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_DATA_ST Titles: Data Status Codes

Description

.

Notes

Developed by Application Design Wizard from function M_DATA_ST
candidate module because it is a leaf function

.

Short Name: FM0190 **Module:** MAINTAIN HAZARDOUS CODES

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_HAZ_CODE Titles: Hazardous Codes

Description

.

Notes

Developed by Application Design Wizard from function M_HAZ_CODE
candidate module because it is a leaf function

.

Short Name: FM0180 **Module:** MAINTAIN CHARACTERIZATION METHODS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_CHARZ_ME Titles: Characterization Methods

Description

.

Notes

Developed by Application Design Wizard from function M_CHARZ_ME
candidate module because it is a leaf function

.

Short Name: FM0080 **Module:** MAINTAIN MATRIX CODES

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_MATX_COD Titles: Matrix Codes

Description

.

Notes

Developed by Application Design Wizard from function M_MATX_COD
candidate module because it is a leaf function

.

Short Name: FM0040 **Module:** MAINTAIN AUTHORIZATIONS (ROLES)

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_AUTH Titles: Authorizations

Description

.

Notes

Developed by Application Design Wizard from function M_AUTH
candidate module because it is a leaf function

.

Short Name: FM0020 **Module:** MAINTAIN USERS

Lang: Oracle Forms Type: SCREEN Format:

Purpose: To Support functions: M_USERS Titles: Users

Description

.

Notes

Developed by Application Design Wizard from function M_USERS
candidate module because it is a leaf function

.

Short Name: MN0120 **Module:** CHARACTERIZATION DATA ENTRY

Lang: Oracle Forms Type: MENU Format:

Purpose: Allow user to input characterization data through screens. Titles: Characterization Data Entry

Short Name: MN0130 **Module:** CHARACTERIZATION DATA TRANSFER

Lang: Oracle Forms Type: MENU Format:

Purpose: Allow user to electronically transfer characterization data Titles: Characterization Data Transfer

Short Name: CRECNOTAR **Module:** RECEIVE MSG ABOUT DATA

Lang: Oracle Forms Type: SCREEN Format:

Purpose: Receive message - data accepted or rejected by WIPP Titles:

Short Name: CREJRPT **Module:** ACCEPTION/REJECTION OF DATA REPORT

Lang: Oracle Reports Type: SCREEN Format:

Purpose: Acception/Rejection of Characterization Data Report Titles:

Designer/2000

MODULE DEFINITION (TYPE MENU/SCREEN)

End of Report