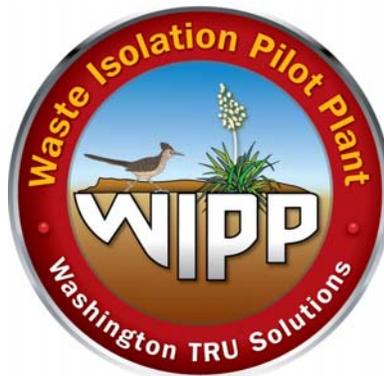


WP 05-WH.02 Revision 0

WIPP Waste Handling Operations WDS User's Manual

Cognizant Section: Waste Handling Operations

Approved by: Mark Dziamski



WIPP Waste Handling Operations WDS User's Manual
WP 05-WH.02, Rev. 0

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ABBREVIATIONS AND ACRONYMS

CH	contact-handled
DOE	U.S. Department of Energy
HP	HalfPACT
ID	identification
OJT	on-the-job training
RH	remote-handled
SWB	standard waste box
TDOP	ten-drum overpack
TRAMPAC	TRUPACT-II Authorized Method for Payload Control
TRUPACT-II	Transuranic Package Transporter Model II
WAC	Waste Acceptance Criteria
WDS	Waste Data System
WIPP	Waste Isolation Pilot Plant

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1.0 INTRODUCTION

This manual provides instructions for training of Waste Handling Technicians and Waste Handling Engineers in the use of the Waste Isolation Pilot Plant (WIPP) Waste Data System (WDS). The function of this system is to record the waste (and its characteristics) in the repository. The WDS is required for the receipt and emplacement of waste at WIPP. The WDS is defined as the only mission-critical system at WIPP.

This manual is targeted primarily at personnel authorized to transmit data into the WDS for transuranic defense waste payload containers and payload assemblies that are intended for disposal at WIPP. If at any time a problem occurs while using this software, contact the WIPP Waste Information System Data Administrator.

2.0 DEFINITIONS

Assembly - A group of waste containers, such as seven 55-gallon drums or pipe overpacks (seven-pack), four 85-gallon drums, three 100-gallon drums, one standard waste box (SWB), or one ten-drum overpack (TDOP) that comprise a contact-handled (CH) package payload.

Base Type Code - The TRUPACT-II [Transuranic Package Transporter Model II] Authorized Method for Payload Control (TRAMPAC) addresses a certain set of container types (55-gallon drum, 85-gallon drum, SWB, TDOP, several pipe overpacks, and several RH canisters). The WWIS, however, in several cases has more than one container type code that meet, the definition of each of these TRAMPAC container types. For example, there is a 55-gallon drum (type code 1), 55-gallon drum to be overpacked - good condition (16), 55-gallon drum to be overpacked - damaged (17), and 55-gallon drum to be overpacked - solid/vitrified – good (18), and 55-gallon drum to be overpacked - solid/vitrified - damaged (19). All five of these containers meet the TRAMPAC definition of "55-gallon drums." Therefore, the Base Type Code is used to identify the type code of the container type recognized by TRAMPAC. In this example, all five container type codes have a Base Type Code of '1' identifying them all as a "55-gallon drum" for TRAMPAC evaluation.

Containers - The following containers are approved for the WWIS:

- Type 7A drum (55-gallon) (either direct loaded or containing a pipe overpack)
- Type 7A drum (85-gallon) (either direct loaded or containing one 55-gallon drum)
- Type 7A drum (100-gallon)
- SWB (either direct loaded or containing up to four 55-gallon drums)
- TDOP (either direct-loaded, containing up to 10 drums, up to six 85-gallon drums, or one SWB)

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- RH Canister (direct loaded)
- RH Canister (55-gallon drums)
- RH Canister (30-gallon drums)

Database - The electronic storage of data that can be manipulated and retrieved by an end user. The database comprises a series of elements including tables, fields, and records.

Direct Loaded - Direct loaded waste is waste (i.e., debris waste that has not been solidified or vitrified) loaded directly into a waste container for disposal at WIPP. Overpacked damaged drums are treated as direct loaded waste.

Overpack Container Group - Identifies the WWIS container type codes that can be placed together in an overpack container. All four of the 55-gallon, "to be overpacked," container types, can be combined in an overpack. Therefore, they are all assigned the same Overpack Container Group value.

Packaging Container Group - Identifies the WWIS container type codes that can be placed together in a TRUPACT-II or HalfPACT shipping vessel. Latest revision of the TRAMPAC Revision 20 allows 55-gallon drums, 6-inch pipe overpacks and 12-inch pipe overpacks to be transported together in a TRUPACT-II or HalfPACT. All three container types are assigned the same Packaging Container Group value.

Shipment - A group of no more than three Type B shipping containers, one 72-B, or 10-160B shipping casks, that will be shipped with one truck.

3.0 ACCESS AND LOGON PROCESS

3.1 Logon to WDS

This software is a web-based software that is installed on the WDS server. Using this method will keep updates of the software more available as they are released.

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3.2 WDS Logon Dialog Box

When the Logon Dialog Box appears, enter your WDS username, password and the database instance that you want to access. The production instance where the waste data is recorded is "prd01" and the test instance is "tst01." New WDS users are typically given access to both of these database instances. After logging onto the WDS, follow the prompts, as shown in Figure 3-1.

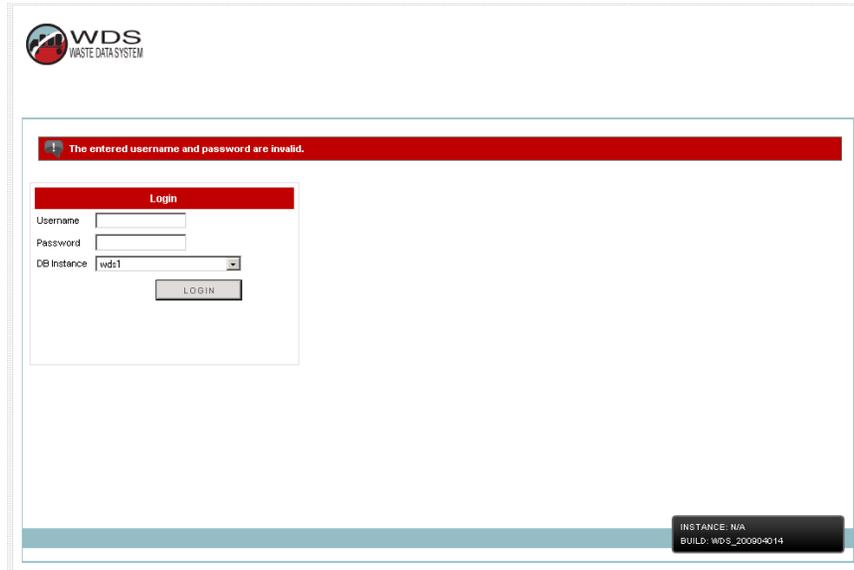


Figure 3-1 - WDS Logon

4.0 WASTE HANDLING DASHBOARD

The WDS Waste Handling Dashboard has a number of functions and reports with in this dashboard are shown in Figure 4-1.



Figure 4-1 - Waste Handling Dashboard

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5.0 FUNCTIONS

The Functions dashboard has two buttons on the dashboard. A shipment receipt button and a manual emplacement button as shown in Figure 5-1.

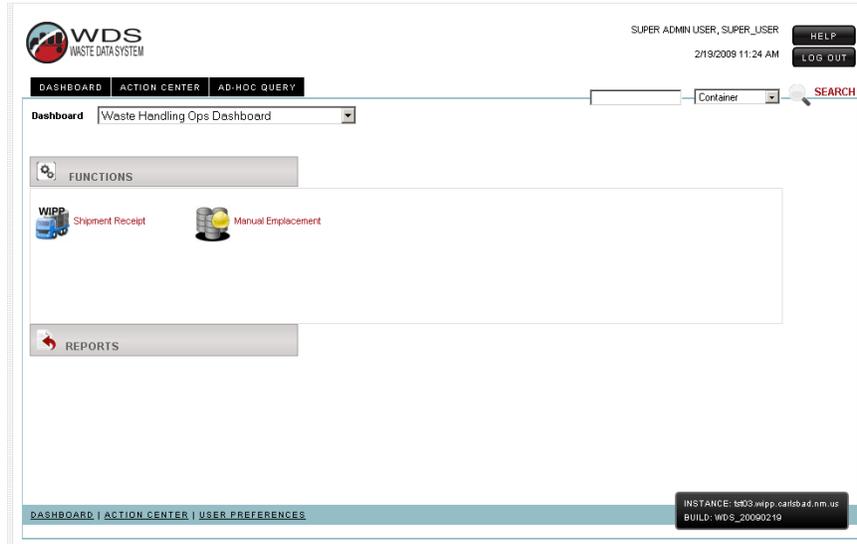


Figure 5-1 - Function Dashboard

5.1 Shipment Receipt

5.1.1 Select Shipment Receipt as shown in Figure 5-1.

5.1.2 Select Shipment that has been released by the Transportation Engineer as shown in Figure 5-2.

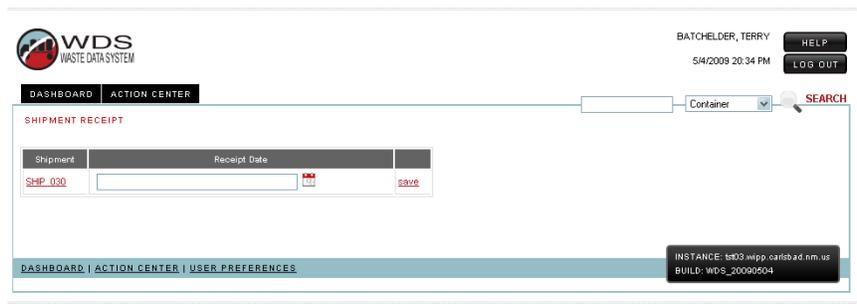


Figure 5-2 - Shipment Dashboard

5.1.3 Enter receipt date from calendar and time as shown in Figure 5-2.

5.1.4 Select save button.

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5.2 Manual Emplacement

5.2.1 Select Manual Emplacement as shown in Figure 5-1.

For CH Waste Handling:

- A. Select the container number within the Container Available for Emplacement screen (left side) as shown in Figure 5-3.
- B. Enter the following:
 - Panel and Room Number
 - Row
 - Column
 - Height
- C. Select the Disposal Date from the calendar, as found in Figure 5-3.

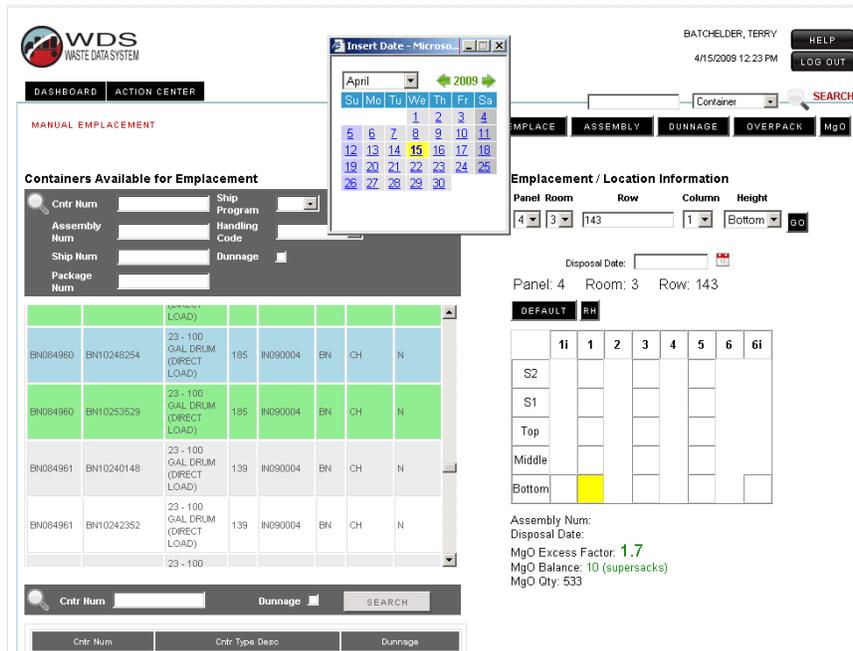


Figure 5-3 - CH Screen for Waste Emplacement

D. Select the emplacement button.

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5.3 For RH Waste Handling

- A. Select the container number within the Container Available for Emplacement screen (left side) as shown in Figure 5-4.

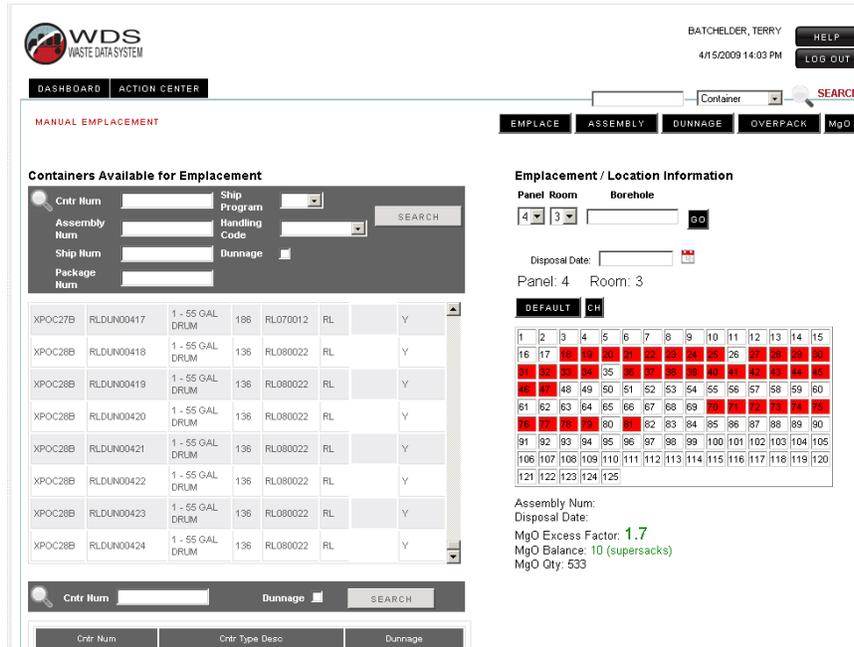


Figure 5-4 - RH screen for Waste Emplacement

- B. Select Handling code (above room map).
- C. Enter the following:
- Panel and Room Number
 - Borehole
 - Select the Disposal Date from the calendar, as found in Figure 5-3.
- D. Select the emplacement button.

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5.4 Overpacks

5.4.1 Create Overpack as follows:

- A. Open Waste Emplacement screen.
- B. Click on **Overpack** button as shown in Figure 5-5.

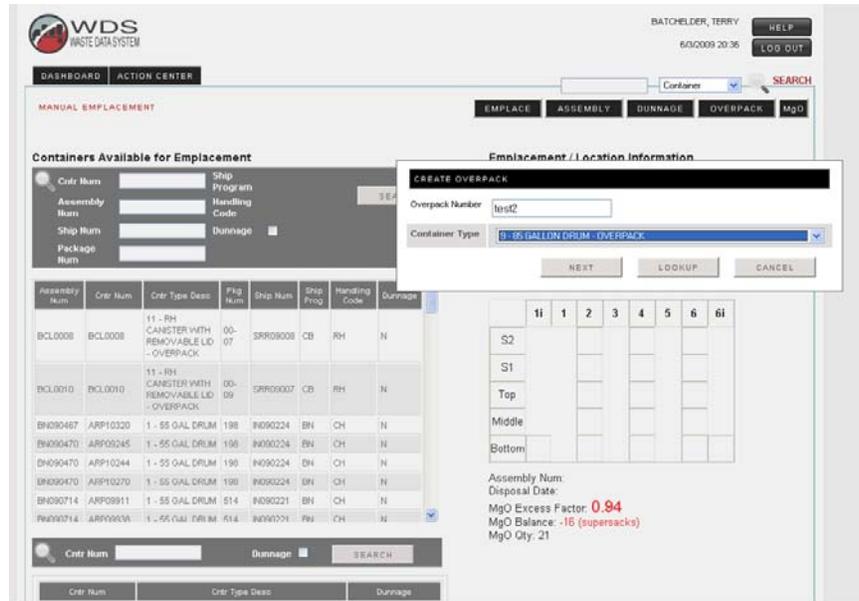


Figure 5-5 - Overpack Screen

- C. Type in Overpack number.
- D. Select Overpack container type.
- E. Select **Next**.
- F. Scroll down and highlight the container number(s).
- G. Click on **Add container** button.

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H. Click on **Create** button as shown in Figure 5-6.

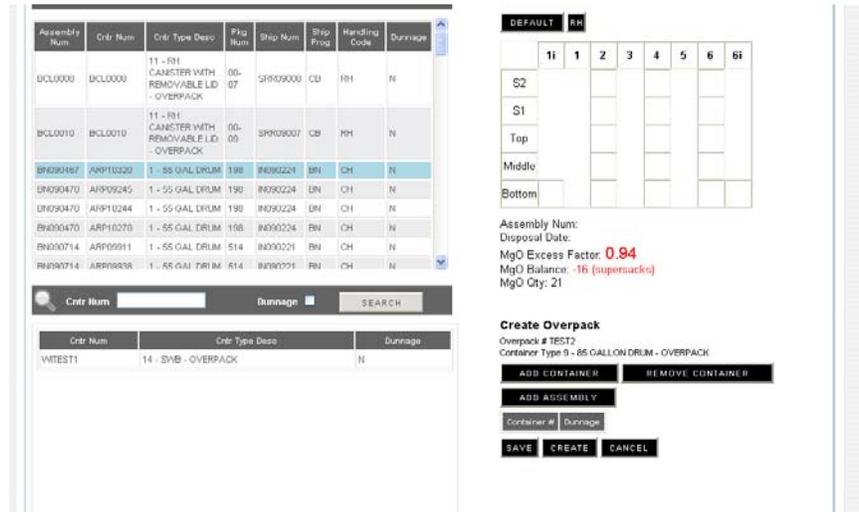


Figure 5-6 - Overpack Screen

5.4.2 Create an Overpack Assembly as follows:

- A. Click on **Assembly** button.
- B. For CH create Assembly ID Number create Assembly ID Number (WIPP site the shipment number that the containers are from WIRF070100). For RH create Assembly ID Number (WIPP Facility Cask next sequential number WIFCXXXX).

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- C. Highlight a Overpack Container on left side of screen and click on **Add Container** button as shown in Figure 5-7.

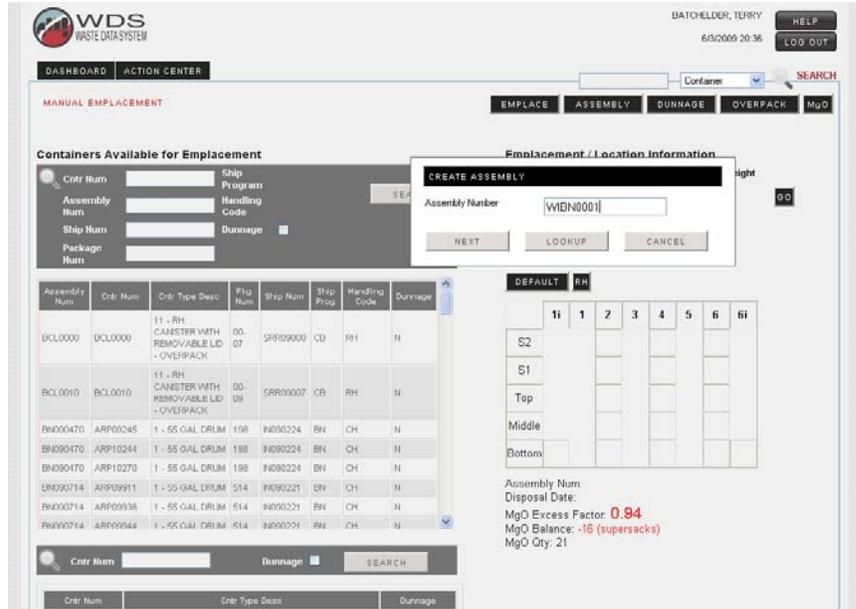


Figure 5-7 - Assembly Screen

- D. Select **Create**

6.0 REPORTS

The report function lets the operator pick up to 14 types of reports.

6.1 Closure, Daily and Emplacement by Container Report

- 6.1.1 Select the **Panel** as shown in Figure 6-1.
- 6.1.2 Select the **Room** as shown in Figure 6-1.
- 6.1.3 Select the **Generate Report** button as shown in Figure 6-1.

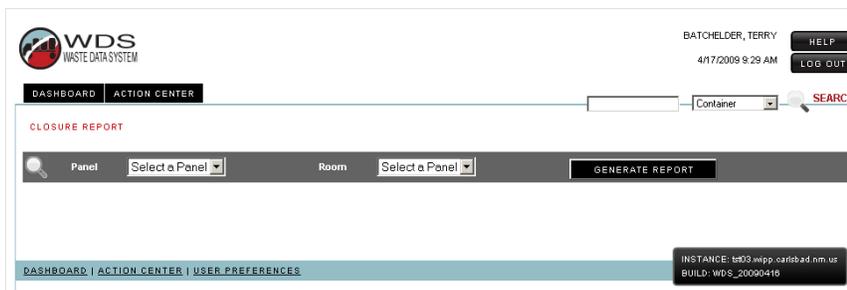


Figure 6-1 - Closure Report

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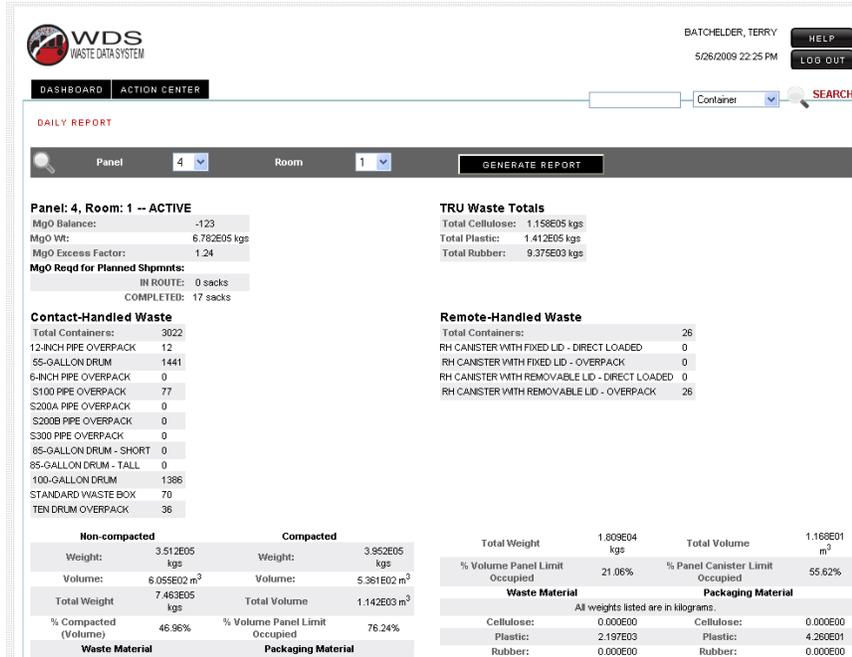


Figure 6-2 - Daily Report

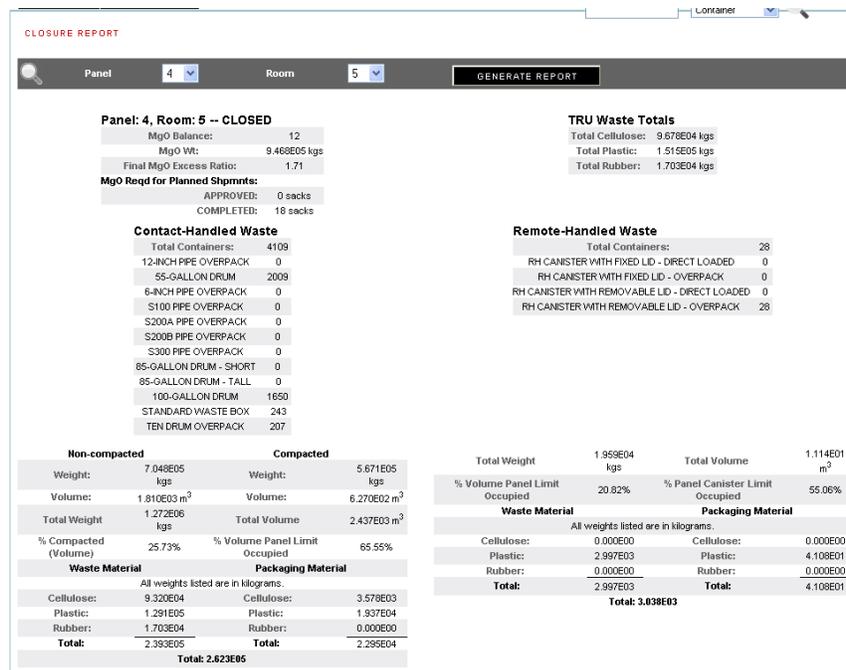


Figure 6-3 - Closure Report

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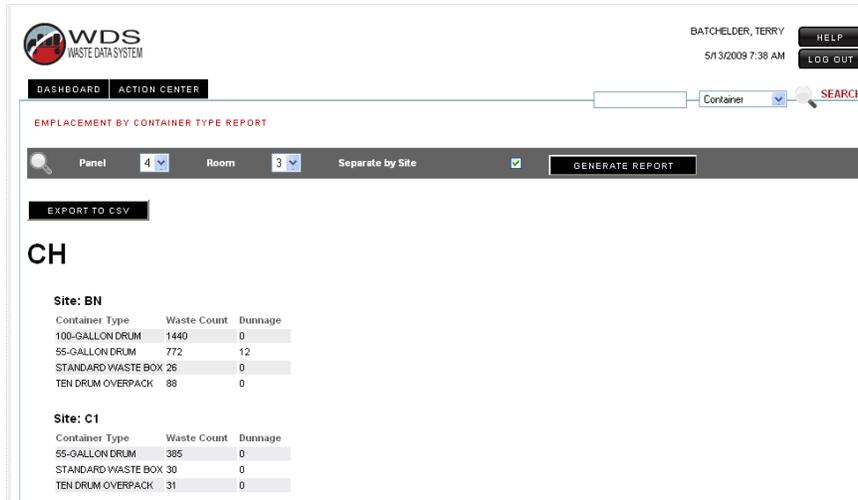


Figure 6-4 - Emplacement by Container

6.2 Daily Emplacement Volume, and MgO Excess Factor

6.2.1 Select the **Panel**

6.2.2 Select the **Room**

6.2.3 Select **Start Date**

6.2.4 Select **End Date**

6.2.5 Select the **Generate Report** button as shown in Figures 6-5 and 6-6.

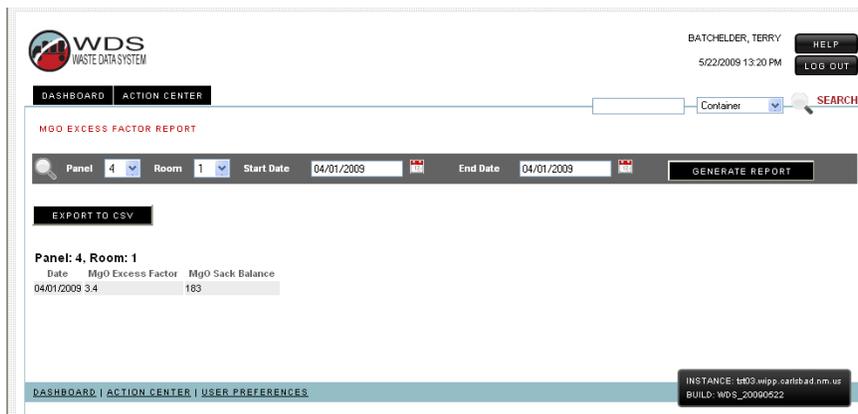


Figure 6-5 - MgO Excess Factor

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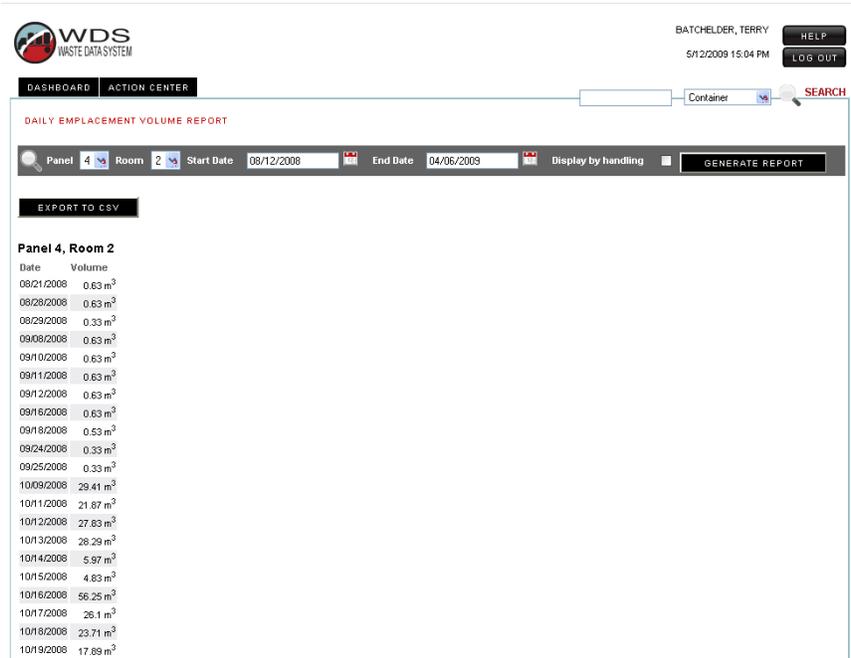


Figure 6-6 - Daily Emplacement Volume

6.3 Emplacement History Overview

6.3.1 Select the **Panel** as shown in Figure 6-7.

6.3.2 Select the **Generate Report** button as shown in Figure 6-7

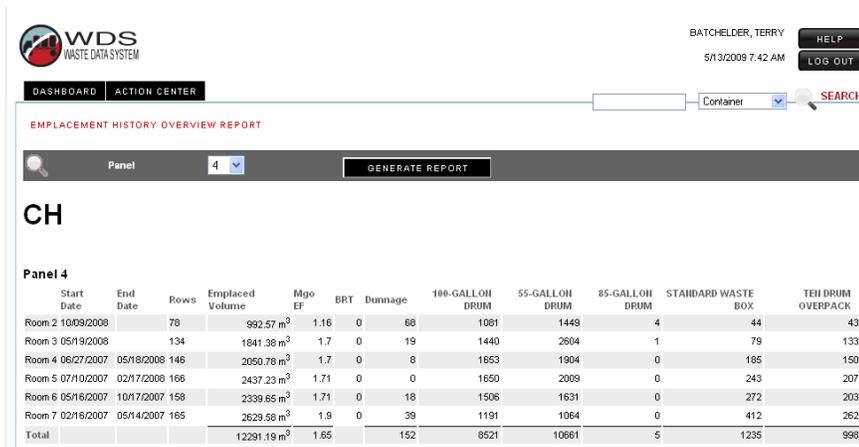


Figure 6-7 - Emplacement History

6.4 Monthly Annual Emplacement Comparison Graph

6.4.1 Select the **Year** as shown in Figure 6-8.

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6.4.2 Select the **Generate Report** button as shown in Figure 6-8

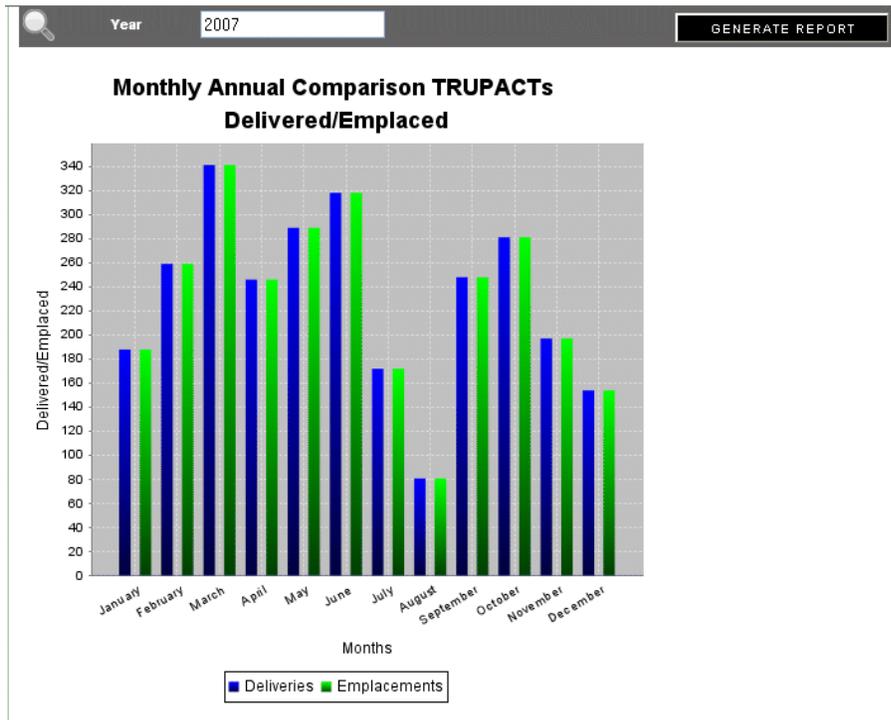


Figure 6-8 - Monthly Annual Emplacement Comparison Graph

6.5 Plot CH Emplacement Excess Factor and Volume Used

6.5.1 Select the **Year** as shown in Figure 6-9.

6.5.2 Select **Start Date** as shown in Figure 6-9.

6.5.3 Select **End Date** as shown in Figure 6-9.

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6.5.4 Select the **Generate Report** button as shown in Figure 6-9.

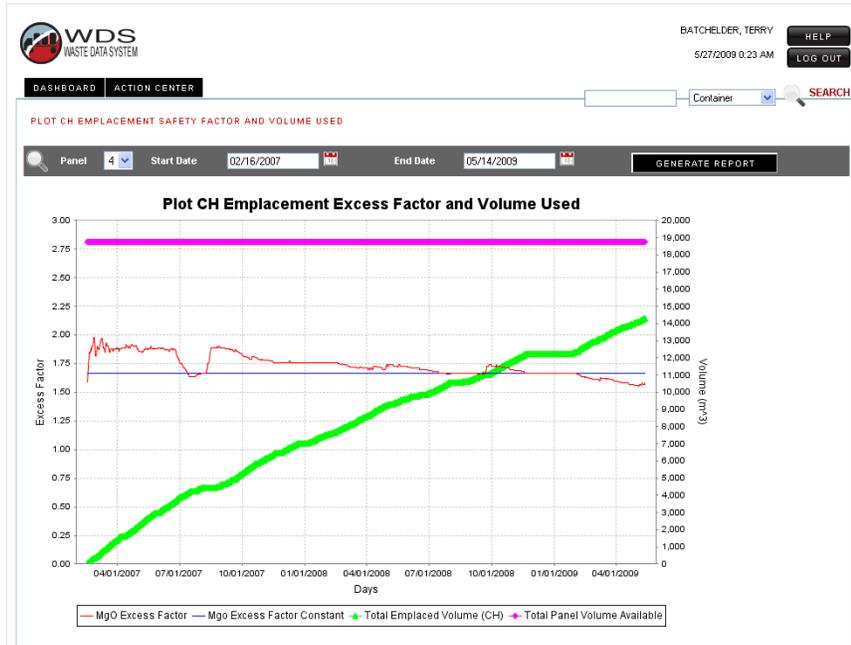


Figure 6-9 - Plot CH Emplacement Safety Factor and Volume Used

6.6 Reference Table

6.6.1 For definitions of the this table go to procedure DOE/WIPP-08-3427.

REF_ACTION_ITEM_TYPE	REF_ACTION_PRIORITY	REF_ACTION_STATUS
REF_ANALYTES	REF_ASM_MAT_PARAMS	REF_ASPIRATION_METHODS
REF_ASSEMBLY_FGE_LIMITS	REF_CL_ACTIONS	REF_CNTR_STATUS_CODES
REF_CONSTANTS	REF_CONTAINER_BASE_TYPES	REF_CONTAINER_TYPES
REF_CONTAINER_TYPE_DOSE_LIMITS	REF_CONTAINER_TYPE_FGE_LIMITS	REF_CONTAINER_TYPE_FECCLIMITS
REF_DASHBOARDS	REF_DOT_DESCRIPTIONS	REF_EMAIL_LISTS
REF_EVALUATION_CODES	REF_EVENT_CODES	REF_FILTER_MODELS
REF_HAZ_CODES	REF_LOCATIONS	REF_LOCATION_LIMITS
REF_MATRIX_CODES	REF_MAT_PARAMS	REF_MAT_PARM_CATEGORIES
REF_MAT_PARM_GROUPS	REF_MAX_DIFF_LIMITS	REF_METHODS
REF_METHOD_TYPES	REF_MGO_CNTRS	REF_MGO_MAT_PARAMS
REF_NUCLIDES	REF_OVERPACK_CONFIGURATIONS	REF_OVERPACK_INNER_TYPES
REF_PACKAGING	REF_PACKAGING_TYPES	REF_PANEL_VOLUME_LIMITS
REF_PAYLOAD_CONFIGURATIONS	REF_RESET_REASONS	REF_ROLES
REF_SAMPLE_PURPOSES	REF_SAMPLE_TYPES	REF_SHIPPING_PURPOSES
REF_SHIP_STATUS_CODES	REF_SITES	REF_SITE_PREFIXES
REF_SITE_PROGRAMS	REF_SITE_PROGRAM_METHODS	REF_SITE_PROGRAM_METHOD_DATES
REF_SITE_PROGRAM_METHOD_PROCS	REF_SITE_PROGRAM_PROCEDURES	REF_SITE_USER_AUTHS
REF_TRACTOR_TRAILERS	REF_TRAILER_TYPES	REF_TRANSPORTERS
REF_USERS	REF_USER_LOG	REF_WAC_LIMITS
REF_WAC_SURF_CONTAM_LIMITS	REF_WSPF_CNTRS	REF_WSPF_CONTENT_CODES
REF_WSPF_HAZ_CODES	REF_WSPF_MATRIX_CODES	REF_WSPF_MAT_PARAMS

Figure 6-10 - Reference Table

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6.7 Room Map

- 6.7.1 Select **Handling Code** (CH or RH).
- 6.7.2 Select **Panel**.
- 6.7.3 Select **Room**.
- 6.7.4 Select **Rows**.
- 6.7.5 Select **Generate Report** as shown in Figure 6-11.

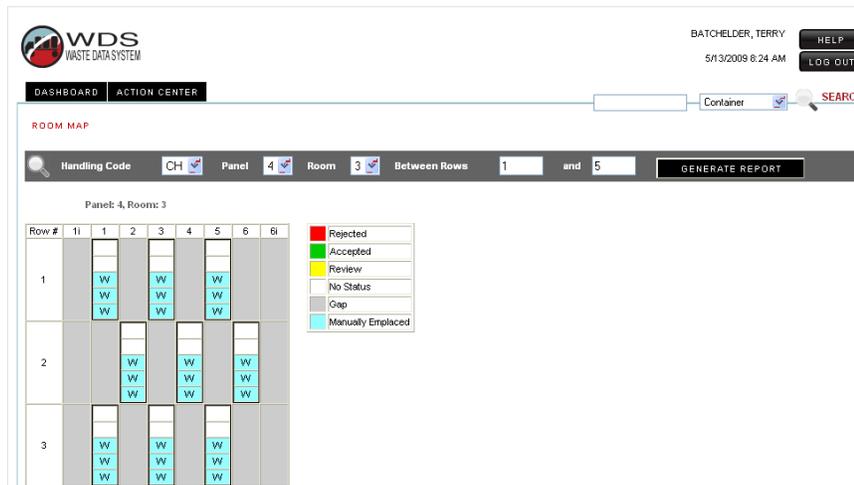


Figure 6-11 - Room Map

6.8 Shipment Summary

- 6.8.1 Select **Shipment**.

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6.8.2 Select **Generate Report**.

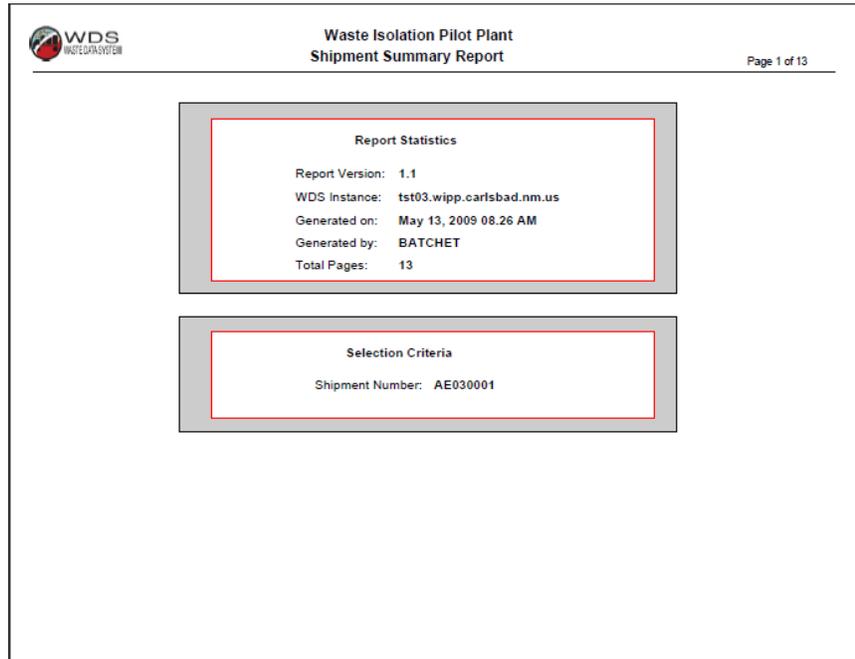


Figure 6-12 - Shipment Summary

6.9 Waste Emplacement

6.9.1 Select **Start Date**.

6.9.2 Select **End Date**.

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6.9.3 Select **Generate Report** as shown in Figure 6-13.

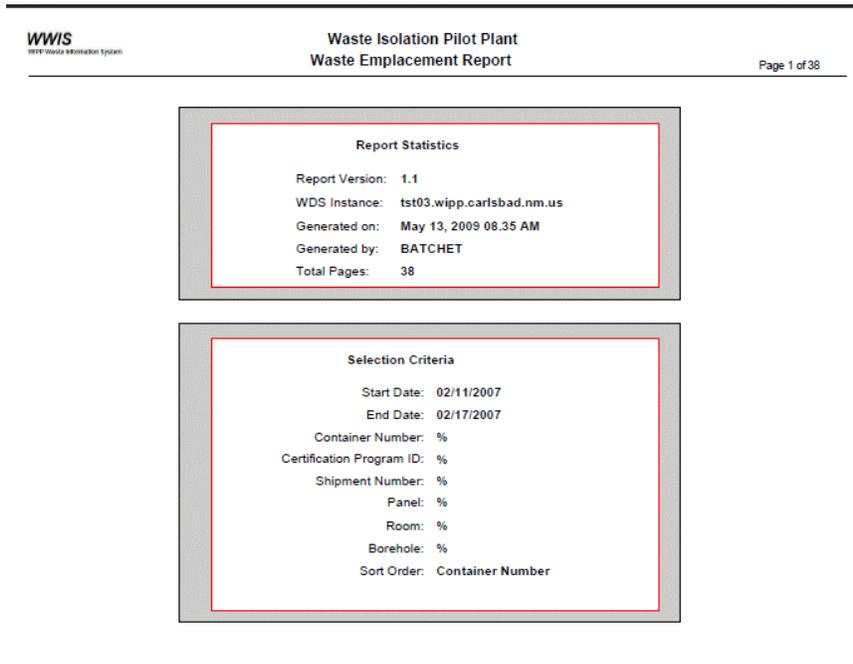


Figure 6-13 - Waste Emplacement

6.10 Weekly Shipment and Emplacement

6.10.1 Select **Handling Code** (CH or RH).

6.10.2 Select **Start Date**.

6.10.3 Select **Generate Report** as shown in Figure 6-14.

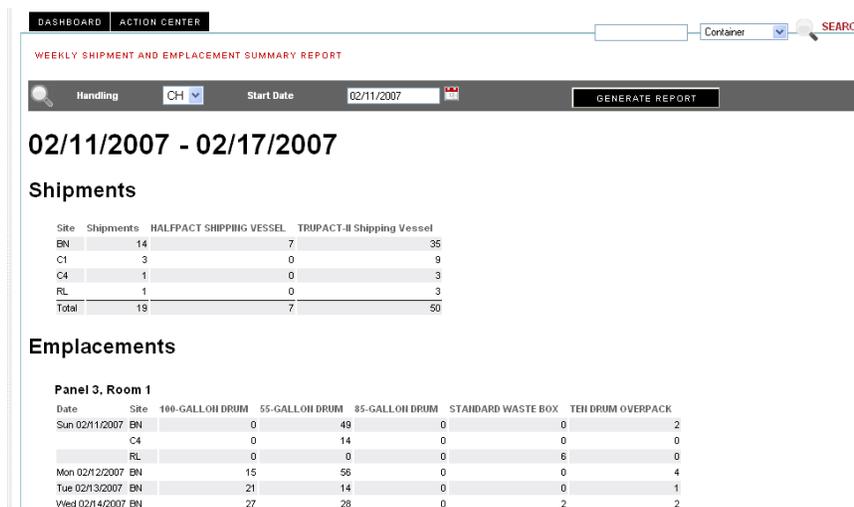


Figure 6-14 - Weekly Shipment and Emplacement

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6.11 On-Site Waste Location

This report displays the locations of all TRU waste packages in "received, in process and not emplaced." When a package is selected it will open up to the assembly numbers.

Package	Package Type	Status
172	TRUPACT 55-GALLON DRUM	Assembly PA1183 Processed Assembly PA1184 Processed
180	TRUPACT 55-GALLON DRUM	Assembly PA1189 Processed Assembly PA1190 Processed
204	TRUPACT 55-GALLON DRUM	Assembly PA1193 Processed Assembly PA1194 Processed
188	TRUPACT TEN DRUM OVERPACK	Assembly TDXP2153 Processed
179	TRUPACT STANDARD WASTE BOX	Assembly SWB0741 Processed Assembly SWB0742 Processed
00-01	72-B REMOVABLE-LID 72-B CANISTER	Assembly ID0183 Processed
139	TRUPACT 100-GALLON DRUM	Assembly BN084981 Processed Assembly BN084982 Processed
149	TRUPACT 55-GALLON DRUM	Assembly BN084325 Processed Assembly BN084326 Processed
185	TRUPACT 100-GALLON DRUM	Assembly BN084959 Processed Assembly BN084960 Processed
127	TRUPACT 100-GALLON DRUM	Assembly BN084785 Processed Assembly BN084786 Processed
155	TRUPACT 100-GALLON DRUM	Assembly BN084783 Processed Assembly BN084784 Processed
507	HALFPACT 100-GALLON DRUM	Assembly BN084780 Processed

Assembly	Status	Process Date/Time
PA1183	Assembly PA1183 Processed	1/29/2009 12:00:00 AM
PA1184	Assembly PA1184 Processed	1/29/2009 12:00:00 AM

Radionuclide	Hazardous Codes
AM-241	D004 (ARSENIC)
AM-243	D005 (BARIUM)
CM-243	D006 (CADMIUM)
CS-137	D007 (CHROMIUM)
NP-237	D008 (LEAD)
PU-238	D009 (MERCURY)
PU-239	D010 (SELENIUM)
PU-240	D011 (SILVER)
PU-241	D018 (BENZENE)
PU-242	D019 (CARBON TETRACHLORIDE)
SR-90	D022 (CHLOROFORM)
U-233	D029 (1,1-DICHLOROETHYLENE)
U-234	D035 (METHYL ETHYL KETONE)
U-235	D039 (TETRACHLOROETHYLENE)

Figure 6-15 - On-Site Waste Location

7.0 BAR CODES

Bar code is a labeling type for tracking all specific types of waste containers.

7.1 Create Bar Code Labels

When creating bar code labels use a 3 to 9 pitch font and using medium to low density Code 39 bar code symbology. In characters at least 1 inch high and alphanumeric characters at least 1/2 inch high.

7.1.1 Create a bar code using the following format and example:

- <Asterisk><container ID><Asterisk>
- *LASBDUN199*

7.1.2 On all drums, a minimum of three bar code labels shall be placed at equal intervals around the barrels. On SWBs, a bar code label will be placed on the flat sides of the SWB. On the TDOP, a minimum of one bar code label is required.

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7.2 Verification

- 7.2.1 For CH packaging operators IF bar code reader is not working, visually verify payload container numbers against WWIS/WDS Shipment Summary Report as shown in Figures 7-1 and 7-2. For RH packaging operators, visually verify payload container numbers against WWIS/WDS Shipment Summary Report.

Assembly	Container Number	Total Dose Rate (mR/hr)	Hazardous Codes	Radionuclides	Total Activity (TBq)	PE
TDXP1315	SRTP01317	.04	D004 D005 D006 D007 D008 D009 D010 D011 D018 D019 D035 F002 F003	AC-220 AM-241 AM-243 BI-214 CO-60 CS-137 NA-22 NP-237 PB-214 PU-238 PU-239 PU-240 PU-241 PU-242 SB-125 SR-90 TH-232 TL-208 U-232 U-233 U-234 U-235 U-238	7.783E-03	1.9
				Assembly: AC-228 AM-241 AM-243 BI-214 CO-60 CS-137 NA-22 NP-237 PB-214 PU-238 PU-239 PU-240 PU-241 PU-242 SB-125 SR-90 TH-232 TL-208 U-232 U-233 U-234 U-235 U-238	7.783E-03	1.9
				Package: AC-220 AM-241 AM-243 BI-214 CO-60 CS-137 NA-22 NP-237 PB-214 PU-238 PU-239 PU-240 PU-241 PU-242 SB-125	7.783E-03	1.9

Figure 7-1 - CH WWIS Shipment Summary Report



Figure 7-2 - CH WWIS Bar Code Label

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- 7.2.2 For CH operators, enter the emplaced container number from Attachment 1 of WP 05-WH1025 and visually verify payload container number(s) entered are the same as Attachment 1 of WP 05-WH1025 as shown in Figure 7-3.
- 7.2.3 For RH operators, enter the emplaced 72-B container number from Attachment 1 of WP 05-WH1710 and visually verify payload container number(s) entered are the same as Attachment 1 of WP 05-WH1710.
- 7.2.4 For RH operators, enter the emplaced 10-160B container number from Attachment 1 of WP 05-WH1722 and visually verify payload container number(s) entered are the same as Attachment 1 of WP 05-WH1722.

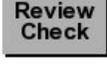
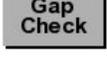
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Attachment 1 - CH Downloading and Emplacement Data Sheet			
Step No.	DESCRIPTION	INITIAL	
PREREQUISITE ACTIONS			
1.0	Shipment No.: <u>JW090243</u> OCA Body Serial No.: <u>160</u>	WHE <u>JDC</u>	
2.0	Shipment received into WWIS.	WHE <u>JDC</u>	
PERFORMANCE			
1.2	WHB and U/G are configured for waste handling mode.	WH <u>KA</u>	
1.3	Payload assemblies properly secured, in good condition, and inspected for damage	WH <u>KA</u>	
2.13	Scan a waste container in each of the payload assemblies using WWIS bar code reader per the Underground Operations Section of WP 05-WH.01, initial Attachment 1, and N/A Waste Emplacement Location Section below: * IF WWIS bar code reader is not operational, THEN record the information below.	THIS WH or N/A	
Container Number	<u>BN1026524</u>	<u>BN1027971</u>	
Row Number	<u>20</u>	<u>19</u>	
Column (Left to Right)	1 (2) 3 4 5 6	1 2 3 4 (5) 6	
Place in Stack (Circle Location)	(Top) Middle Bottom	(Top) Middle Bottom	
Disposal Room	1 2 3 4 5 6 (7)	1 2 3 4 5 6 (7)	
Disposal Panel	1 2 3 4 (5) 6 7 8	1 2 3 4 (5) 6 7 8	

Figure 7-3 - Example CH Downloading and Emplacement Data Sheet

8.0 BAR CODE READER

Button Descriptions	
<div style="border: 1px solid black; padding: 5px; width: 50px; margin: auto;"> Unload </div>	The <i>Unload</i> button is used to access the Shipment Unload Screen and all functionality required to unload shipments as shown in Section 8.2.
<div style="border: 1px solid black; padding: 5px; width: 50px; margin: auto;"> Emplace </div>	The <i>Emplace</i> button is to access the Emplacement Screen and all functionality required to emplace waste containers, dunnage assemblies, and MgO sacks as shown in Section 8.3.

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Button Descriptions	
	The <i>Review</i> button is to access the Emplacement Location Review Screen and all functionality required to review and validate the accuracy of emplacement location data for waste containers, dunnage assemblies, and MgO sacks.
	The <i>Reports</i> button is to access the Report Selection Screen and choose the report type desired (Daily Report, Room Closure Report, MgO Balance Report, or Graphical Room Display Report).
	The <i>Review Check</i> button is to access the Manual Review Check Screen and manually perform a location data validation review on a specific row in the selected Panel/Room combination.
	The <i>Gap Check</i> button is to access the Manual Gap Check Screen and manually perform a gap check on a specific row in the selected Panel/Room combination.
	The <i>Logout</i> button is to logout of the system and return to the login screen at any time.
	The <i>Home</i> button is to return to the Home screen at any time.
	The <i>Back</i> button is to return to the previous Screen at any time.

8.1 Logon

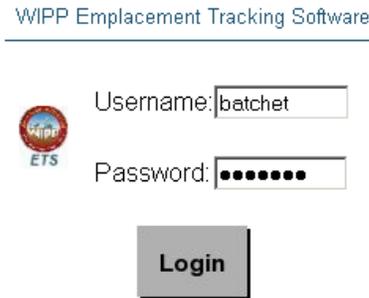
8.1.1 Type in username.

8.1.2 Type in password.

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8.1.3 Press **Login** button as shown in Figure 8-1.



The screenshot shows the login interface for WIPP Emplacement Tracking Software. At the top, the text "WIPP Emplacement Tracking Software" is displayed. Below this, there is a logo for WIPP ETS. To the right of the logo, there are two input fields: "Username:" with the text "batchet" entered, and "Password:" with a masked password of seven dots. Below the input fields is a grey button labeled "Login".

Figure 8-1 - WIPP Emplacement Tracking Software

8.2 Surface Operation

8.2.1 Select the **Unload** button.

8.2.2 Select Shipment/Package from the pull-down screen as shown in Figure 8-2.



The screenshot shows the "Topside Package Unload" screen. At the top, it displays "Instance: xe" and "User: batchet". Below this, the title "Topside Package Unload" is centered. Underneath, there is a label "Shipment/Package:" followed by a pull-down menu showing "IN060243; 180". Below the menu is a grey button labeled "Display". At the bottom of the screen, there is a blue navigation bar with the text "Home << Back Logout".

Figure 8-2 - Topside Package Unload

8.2.3 Press **Display** button as shown in Figure 8-2.

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8.2.4 Scan or enter bar code number as shown in Figure 8-3.

Instance: xe User: batchet

Shipment: IN060243 / Package: 180

Assembly BN060377:
BN10083848

Enter Barcode:

Validate

[Home](#) << [Back](#) [Logout](#)

Figure 8-3 - Barcode Screen

8.2.5 Press the **Validate** button as shown in Figure 8-3.

- A. If the container number and assembly number match, press the **Accept** button as shown in Figure 8-4.

Instance: xe User: batchet

Shipment: IN060245 / Package: 187

Scanned Assembly: BN060388
BN10083859

[Home](#) [Logout](#)

Figure 8-4 - Accept/Reject Screen

- B. If the **Reject** button the assembly must be pressed, go to Section 8-6 to reset bar code system.

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8.2.6 If another assembly needs to be scanned, press **New Package** button as shown in Figure 8-5.



Figure 8-5 - Update Screen

8.3 Underground Operations

8.3.1 Container Emplacement

- A. Select the **Emplace** button.
- B. Scan or enter container number.
- C. Press **Show** button.

NOTE: If the container ID has been already emplaced, the system will show where it has been emplaced.

- D. Select panel and room number from the pull-down screen, and
 - Enter row number.
 - Enter column number.
 - Enter height location.

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- E. Press **Save Cntr** button as shown in Figure 8-6.

Enter Location

Panel #4: Room #2 Row: 86

Column: 1 Height B Clear

Cntr: Show

Save Cntr Dunnage Select MgO

Home << Back Logout

Figure 8-6 - Emplacement Screen

8.3.2 Dunnage Emplacement

- A. Select panel and room number from the pull-down screen, and
- Enter row number.
 - Enter column number.
 - Enter height location.
- B. Press **Dunnage** button as shown in Figure 8-6.

8.3.3 MgO Emplacement

- A. Select panel and room number from the pull-down screen, and
- Enter row number.
 - Enter column number (if an MgO sack is being emplaced on top of a column, use the S1 location; if a column of MgO is being emplaced, use the bottom location).
 - Enter height location.
- B. Press **SELECT MgO** button as shown in Figure 8-6.
- C. Select either 4,200 lb sacks or a 3,000 lb sack.
- D. Press Save MgO button.

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8.3.4 Emplacement Location Review

- A. Select the **Review** button.
- B. Enter the following:
 - Panel and room number
 - Row location
 - Column location
 - Height location
- C. Press the **Review** button as shown in Figure 8-7.

The screenshot shows a web interface for 'Emplacement Review'. At the top, it displays 'Instance: xe' and 'User: batchet'. Below this is the title 'Emplacement Review' and a prompt 'Enter a location and/or scan a barcode.'. The form contains several input fields: a dropdown menu for location, a 'Row:' text input, a 'Column: 1' dropdown, a 'Height: B' dropdown, and a 'Clear' button. Below these is a 'Container:' label followed by a text input containing 'SRTP01834'. A 'Review' button is positioned below the container input. At the bottom of the form, there is a blue navigation bar with 'Home', '<< Back', and 'Logout' links.

Figure 8-7 - Emplacement Review Screen

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8.3.5 Location Accept/Reject

- A. If all information is correct, press the **Accept** button to accept the location data as shown in Figure 8-8.
- B. If the information is incorrect, press the **Reject** button to reject the location data as shown in Figure 8-8.

Reviewing Assembly

Panel #4, Room #2 Row: 9

Column: 6i Height: 6 Clear

Container: IDRF074112468

Accept Reject

MgO Balance: + 7 sacks

Home << Back Logout

Figure 8-8 - Accept/Reject Screen

8.4 Review

8.4.1 Manual Review Check

- A. Select the **Review Check** button.
- B. Select panel and room number from the pull-down screen.
- C. Enter row number.
- D. Press **Run** button as shown in Figure 8-9.

Instance: xe User: batchet

Manual Review Check

Panel/Room:
Panel #4; Room #7

Row: 177

Run

Home << Back Logout

Figure 8-9 - Manual Review Check Entry Screen

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NOTE: Row status will show on the screen as the following colors, as shown in Figure 8-10:

- Red is rejected.
- Green is accepted.
- Yellow is reviewed.
- Grey is no status or gaps.

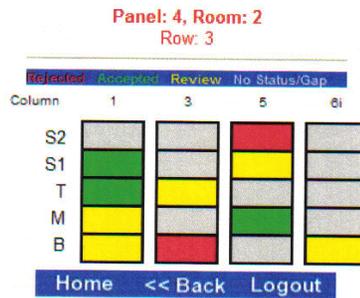


Figure 8-10 - Manual Review Check Screen

8.4.2 Manual Gap Check

- A. Select the **Gap Check** button.
- B. Select panel and room number from the pull-down screen.
- C. Enter row number.
- D. Press **Run** button.

NOTE: Row status will show on the screen as follows:

- Grey is no status or gaps

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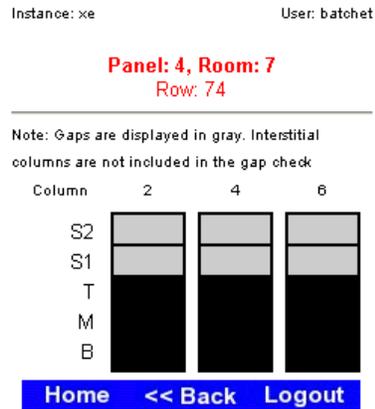


Figure 8-11 - Manual Gap Check Screen

8.5 Reports

8.5.1 Daily

- A. Select the **Daily** button.
- B. Select panel and room number from the pull-down screen.
- C. Press **Run** button.

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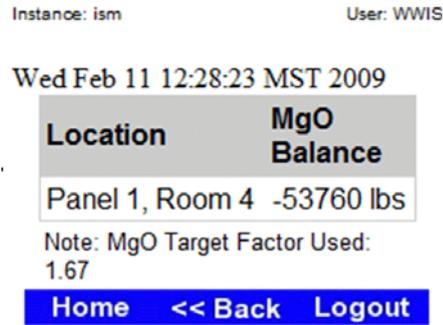


Figure 9-13 - MgO Balance Screen

8.5.4 Room Display

- A. Select the **Room Display** button.
- B. Select panel and room number from the pull-down screen.
- C. Enter beginning row and ending row as shown in Figure 8-14.
- D. Press **Run** button as shown in Figure 8-14.

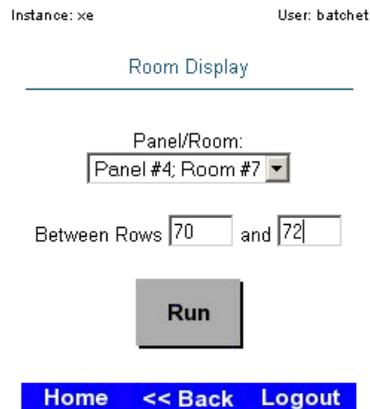


Figure 8-14 - Room Display Entry Screen

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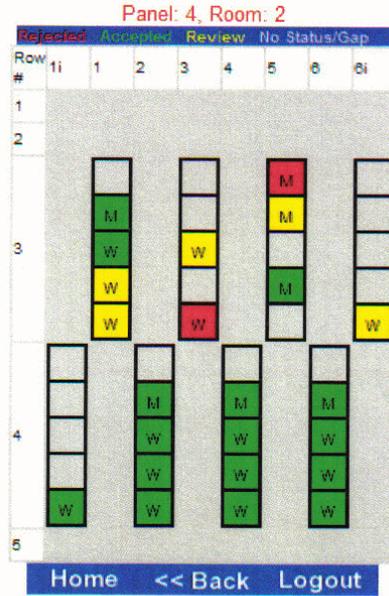


Figure 8-15 - Room Display Screen

8.6 Supervisor Screen

A supervisor screen will show if there is a shipment reject or an assembly reject. This will have to be done to reset the bar code system.

8.6.1 Enter "Supervisor" into the Supervisor field.

8.6.2 Enter the password in the Password field.

NOTE: The bar code reader password will be given out by Integrated Waste Operations management.

8.6.3 Press the reset button as shown in Figure 8-16.

Shipment: IN060677 / Package: 163

The barcode [BN10113959] is not associated with an assembly in this shipment & package.

A supervisor login is required to reset the system.

Supervisor:

Password:

Figure 8-16 - Supervisor Screen

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8.7 Changing Batteries

- 8.7.1 Prior to removing the battery, press the red power button to turn off the screen. This sets the scanner to suspend mode.
- 8.7.2 Simultaneously press both primary battery releases. The battery partially ejects from the scanner. Pause 3-4 seconds while the scanner performs battery removal shutdown as shown in Figure 8-17.
- 8.7.3 Press secondary battery release, on top of the battery, and slide the battery out of the scanner as shown in Figure 8-17.

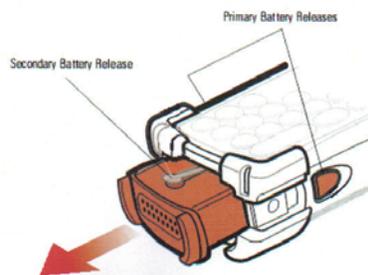


Figure 8-17

NOTE: When installing the battery, two audible clicks can be heard.

9.0 TRAINING

All WDS users shall receive on-the-job training (OJT) specific to the WDS. Other personnel who have access to the WDS will be provided training to support the work they are assigned to perform in accordance with site-specific procedures.

Training on the contents of this procedure is provided as a required reading OJT activity.

An excellent resource on using the WDS is this WDS User's Manual. Routine training/orientation for new users should be provided by experienced users. Training for major modifications will be provided on an as-needed basis. Special training will be available on a case-by-case basis.

10.0 REFERENCES

DOE/WIPP 02-3122, *Contact-Handled Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant*

DOE/WIPP-09-3427, *Waste Data System User's Manual*

WIPP Waste Handling Operations WDS User's Manual
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WP 05-WH1011, CH Waste Processing

WP 05-WH1025, CH Downloading and Emplacement

WP 05-WH1710, 72-B RH Processing

WP 05-WH1722, 10-160-B RH Processing

MTO404935-5, WIPP Emplacement Tracking Software Technical Support

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Attachment 1 - Special Requirements for Additional MgO

The purpose of this attachment is to show the flow of shipment, receipt, processing, and emplacement of waste containers, MgO, and additional requirements for adding additional MgO.

Process:

1. When the shipment is approved for shipment from generator site, the WWIS Data Administrator will send approval e-mail per WP 08-NT.01.
2. When the WHE receives the approval e-mail, the WHE will print out a Shipment Summary Report per WP 08-NT.01.
3. When the shipment arrives at WIPP, the TE will send an e-mail for shipment release for processing per WP 08-NT3020.
4. The WHE will enter the shipment receipt date in the shipment receipt form in the WWIS per WP 08-NT.01.
5. Processing of released shipments will be per WP 05-WH1011.
6. Emplacement of processed containers will be per WP 05-WH1025.
7. If there are no drums or SWBs for topping the columns, dunnage will be emplaced to finish columns.
8. MgO will be emplaced on completed stacks per WP 05-WH1025.
9. At the end of shift, the emplaced waste and MgO data will be entered into the WWIS in the Emplace containers underground form per WP 05-WH1025.
10. Run MgO excess factor will be determined as follows:
 - 10.1 If the room excess Factor is >1.2 , activities will continue for emplacement of waste and MgO.
 - 10.2 If the room excess Factor is <1.2 , the WHM must be notified as per WP 05-WH1011.
11. WHM will evaluate the following conditions:
 - Current emplacement location and remaining volume in disposal room.
 - Near future Waste Receipts including which generator sites will be shipping to WIPP and at what rates.

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Attachment 1 - Special Requirements for Additional MgO

- Number of additional supersacks currently required.
12. The WHM will decide to initiate the emplacement of additional MgO based on the responses to the above items. The emplacement of additional MgO will be planned for future shifts. When emplacing additional MgO, place in equal geometric configuration to the waste.
 13. Once the emplacement activities are complete, the data will be uploaded to the WWIS and the excess Factor will again be calculated. Additional MgO emplacement activities may resume.

References:

WP 05-WH1011, CH Waste Processing

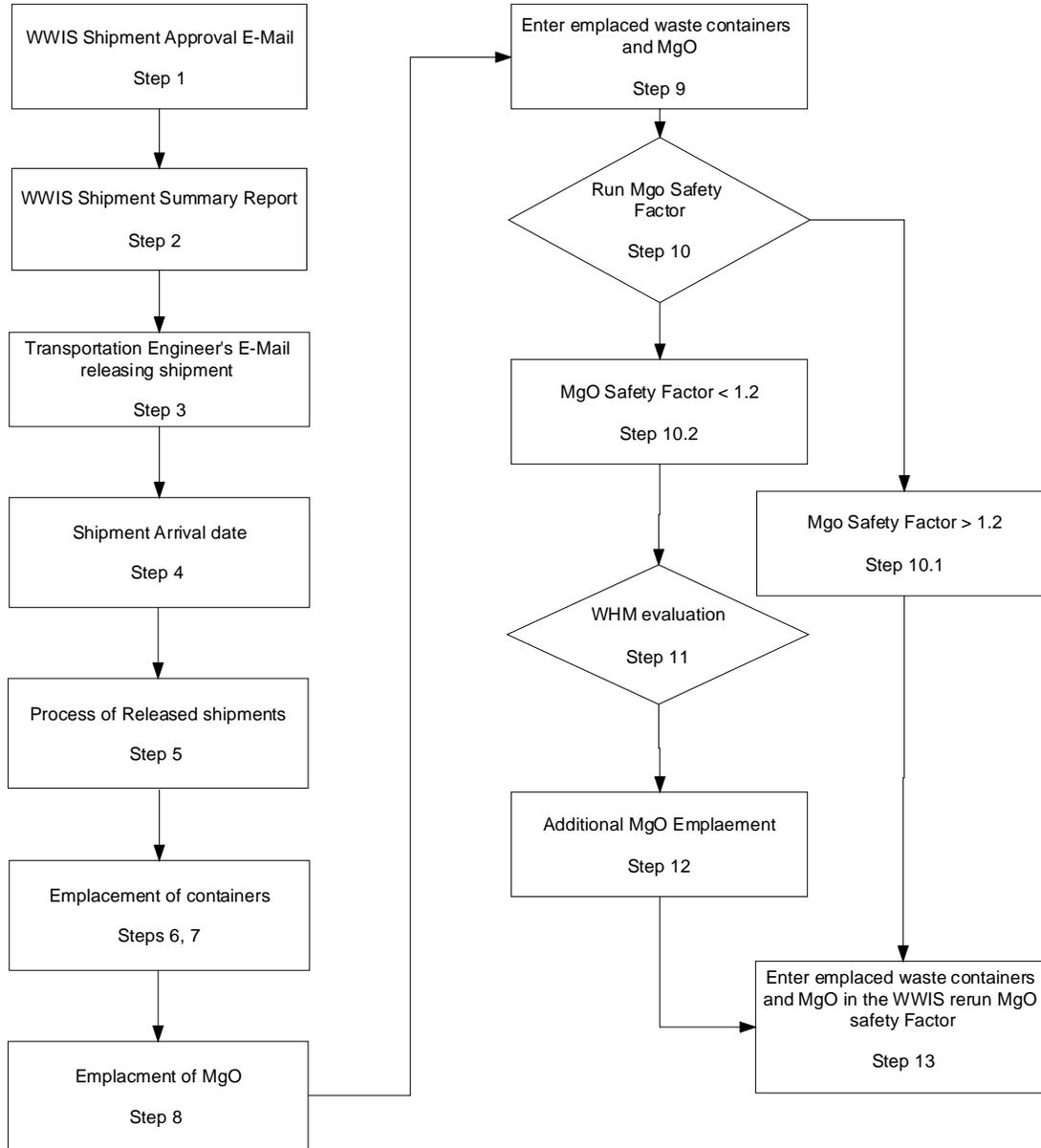
WP 05-WH1025, CH Downloading and Emplacement

WP 08-NT.01, WIPP Waste Information System Program and Data Management Plan

WP 08-NT3020, TRU Waste Receipt

WIPP Waste Handling Operations WDS User's Manual WP 05-WH.02, Rev. 0

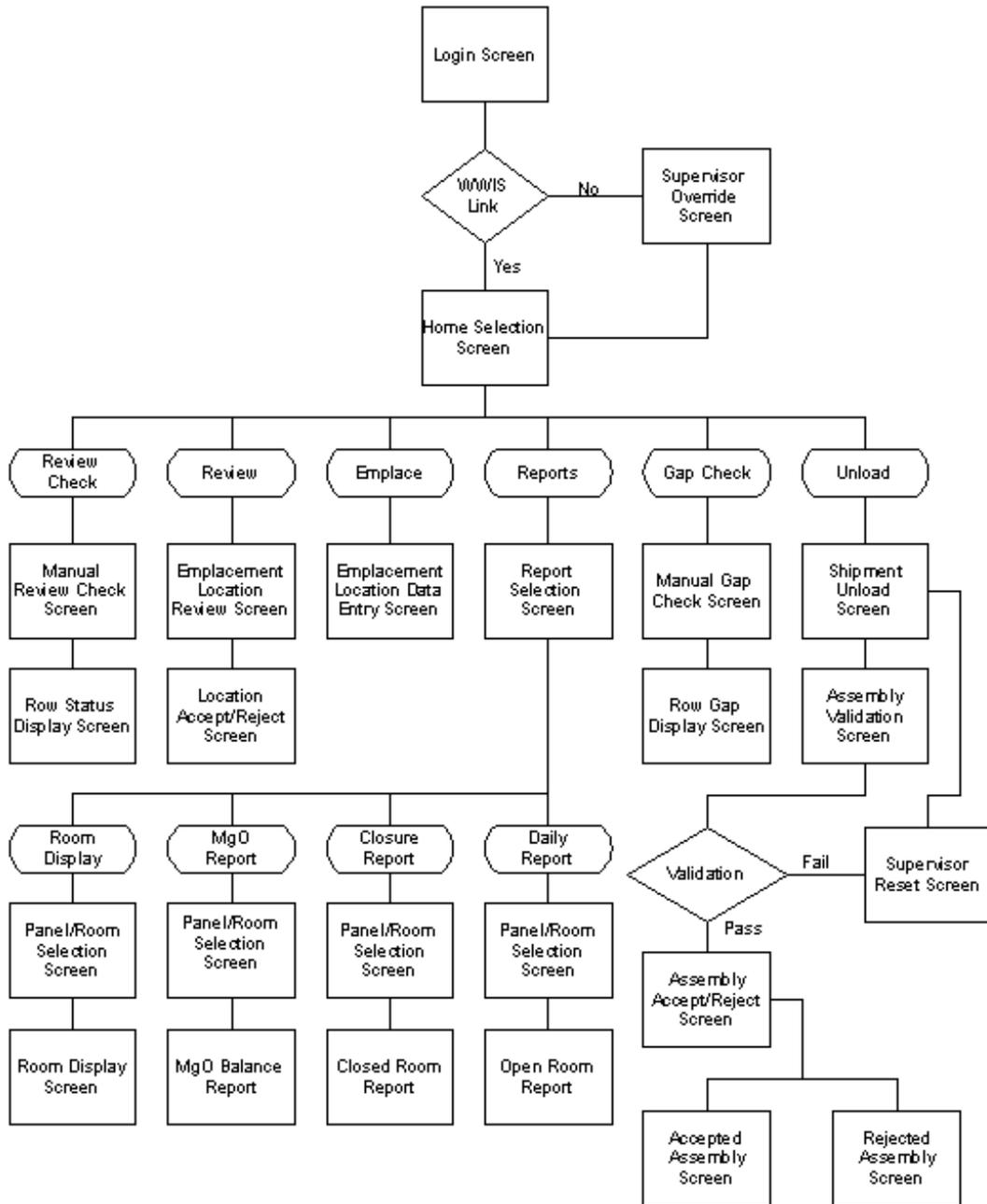
Attachment 1 - Special Requirements for Additional MgO



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Attachment 2 - Flow Diagram of the Menu Structure



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Attachment 3 - Site IDs and Locations

Site ID	Location
AE	Argonne National Laboratory - East
BC	Battelle - Columbus
BN	Advance Mixed Waste Treatment Facility - Idaho
C1	CCP at Savannah River Site - CH Waste
C2	CCP at Argonne National Laboratory - East
C3	CCP at Nevada Test Site
C4	CCP at Los Alamos National Laboratory
C5	CCP at Lawrence Livermore National Laboratory
C6	CCP at Oak Ridge National Laboratory - CH Waste
C7	CCP at Oak Ridge National Laboratory - RH Waste
C8	CCP at Idaho National Laboratory
C9	CCP at Idaho National Laboratory - RH Waste
CA	CCP at Los Alamos National Laboratory - RH Waste
CB	CCP at Savannah River Site - RH Waste
CC	CCP at Vallecito - RH Waste
IN	Idaho National Laboratory
LA	Los Alamos National Laboratory
MD	Mound Site
NT	Nevada Test Site
OR	Oak Ridge National Laboratory
RL	Hanford Site
SR	Savannah River Site
WI	Waste Isolation Pilot Plant