



Waste Inventory Control System User Manual

Implementation Date: 4-25-13

Supersedes CM-M-BO-002
(along with CM-M-WP-003 and CM-M-WP-006)

APPROVAL:

Fred Heacker

F. K. Heacker

Director of Waste Management

4-10-13

Date



Table of Contents

| | | |
|-------------|--|-----------|
| 1.0 | INTRODUCTION..... | 5 |
| 1.1 | Purpose..... | 5 |
| 2.0 | RESPONSIBILITIES..... | 5 |
| 2.1 | Document Maintenance | 5 |
| 3.0 | SYSTEM DESCRIPTION | 5 |
| 3.1 | User Overview | 6 |
| 3.2 | FileMaker Server Administration (Administrators Only)..... | 7 |
| 3.3 | Local Installation | 10 |
| 4.0 | SYSTEM OPERATION..... | 11 |
| 4.1 | Open the System..... | 11 |
| 4.2 | Interface | 14 |
| 4.3 | Help (All Users)..... | 16 |
| 4.4 | Exit Application (All Users)..... | 17 |
| 5.0 | SETUP & PREFERENCES (ENTERED BY ADMINISTRATOR ONLY) | 17 |
| 5.1 | Setup Tables..... | 18 |
| 5.2 | Site Preferences..... | 29 |
| 5.3 | System Announcements..... | 31 |
| 5.4 | System Version | 31 |
| 5.5 | System Issues..... | 32 |
| 6.0 | HOME MENU..... | 33 |
| 6.1 | Summary Features | 33 |
| 6.2 | Process Reports..... | 40 |
| 6.3 | Current Inventories | 43 |
| 7.0 | CONTAINERS..... | 44 |
| 7.1 | Containers (Detail View)..... | 44 |
| 7.2 | Containers (List View)..... | 63 |
| 8.0 | AREAS & MOVES..... | 64 |
| 8.1 | Areas & Moves (Detail View) | 64 |
| 8.2 | Areas/Moves (List View)..... | 72 |
| 8.3 | Areas/Moves (Locations)..... | 73 |
| 9.0 | GLOVE BOX (GB) ACTIVITIES | 75 |
| 9.1 | Assign Containers to Station..... | 75 |
| 9.2 | Join Containers in Stations..... | 76 |
| 10.0 | HOT CELL ACTIVITIES | 82 |
| 10.1 | Assign containers to HotCell portals | 83 |
| 10.2 | Join containers within the HotCell..... | 84 |
| 11.0 | CPE ACTIVITIES..... | 84 |
| 11.1 | Assign Containers to Station..... | 84 |
| 11.2 | Join Containers in Stations..... | 85 |



| | | |
|-------------|---|-----------|
| 12.0 | USER AND GROUP ADMINISTRATION (FILEMAKER) | 87 |
| 12.1 | User Privilege Sets | 87 |
| 12.2 | Assigning Privilege Sets | 87 |
| 13.0 | APPENDIX (FORMS) | 89 |
| 13.1 | Container Movement Authorization Form | 89 |
| 13.2 | Process Report (By Container) | 90 |
| 13.3 | Process Report (By Date Out) | 90 |
| 13.4 | Process Report (By Process) | 91 |
| 13.5 | Batch Detail Report | 92 |
| 13.6 | Attachment G: PE-Ci and FGE Conversion Worksheet, NDA Data (from WICS) | 93 |
| 13.7 | Print Container Detail | 94 |
| 14.0 | ATTACHMENTS | 94 |
| | Attachment A: Acronyms/Abbreviations, Definitions, References, and Reviewer Selection for Major Revisions | 95 |

Revision Summary

[illegible]



1.0 INTRODUCTION

1.1 Purpose

This document describes the capabilities of and user instructions for using the Waste Inventory Control System (WICS) at the TRU Waste Processing Center (TWPC). WICS is developed in FileMaker Pro, a workgroup database manager. Awareness of the basic navigational and query tools within FileMaker Pro will be useful to users of this system.

Illustrations throughout this document are example screen shots for reference only.

2.0 RESPONSIBILITIES

2.1 Document Maintenance

The Waste Tracking and Reporting Manager is designated the document owner and is responsible for updating this document. Approval authority rests with the Director of Waste Management (DWM). Submit suggestions for revisions or improvement to the document owner and the DWM in accordance with Attachment E, Revision Request Form, of CM-P-AD-061, Document Preparation, Review and Approval.

3.0 SYSTEM DESCRIPTION

The TWPC requires a database management system to enable TWPC personnel to enter and view processes related to containers and container movements across ICAs at the facility. The objectives of the system are as follows:

1. To create a means of quickly entering and calculating characterization data for containers at the TWPC.
2. To provide a means of tracking containers according to the processes each container undergoes at the site.
3. To assist site personnel in determining the scope of activities related to moving containers between ICAs and to record the approvals required for each move.
4. To record Parent-to-Daughter relationships between containers according to the processing occurring within specified processing areas. Each relationship attaches values from the Parent(s) to the Daughter(s) according to the procedural requirements at the site.
5. To provide a summary of Isotopic Activity within each ICA in consideration of the specific limits to those areas.
6. To provide waste processing performance data to meet customer and regulatory reporting requirements.

WICS is administered on a server housed at the TWPC. The server name is named "SRV-FM12" and is accessible qualified users on the "TRUPROJECT" domain.

The server uses a special version of FileMaker Server software (version 12 or greater) to provide multi-user system access to users who have FileMaker Pro client software (version 12 or greater) on their local workstation. FileMaker Server runs as a service on the machine and provides an efficient, stable method of handling multiple operations for a workgroup.

3.1 User Overview

The functionality of WICS is designed for distinct user groups. User groups are linked to FileMaker “Privilege Sets” to provide access to specific features and data within WICS. Section 9 of this document lists each user account and their specific affiliation with WICS privilege set.

Each user group associates to specific responsibilities established in Section 4 of CH-UET-OP-014, Waste and Activity Inventory Control.

This user manual tags certain sections, subsections or features when they apply only to specific groups. When no tag is present, WICS features are designed for all users in all groups.

3.1.1 Administrator

Administrative users can access, enter and operate all functions of WICS, including setup tables. The Administrator user group is assigned to the *WICS Administrator* responsibilities described within Section 3 of CH-UET-OP-014, Waste and Activity Inventory Control. This user is intended to understand all waste characterization and processes and the effects of alteration of WICS.

3.1.2 Acceptable Knowledge Expert (AKE)

AKE users can change field data specific to Acceptable Knowledge (AK) and Process Knowledge (PK), including Waste Stream, RCRA, EPA codes, PCB data, and Asbestos information. The AKE privilege set enables automation from TWPC’s Acceptable Knowledge/Process Knowledge System (AKPKS). All other AKE access is limited to Read Only.

3.1.3 Entry

The typical Entry users are the *Inventory Coordinator, Waste Data Entry personnel* or designee, as defined in Section 3 of CH-UET-OP-014, Waste and Activity Inventory Control. Entry users can enter data related to containers and processing activities. However, an Entry user cannot alter the setup tables that underlie WICS. Entry users cannot enter or alter a container record’s isotopic values used in PE-Ci and FGE conversion.

3.1.4 Ops Data

The OpsData privilege set allows specified users to alter specific process reporting fields important to Waste Operations without providing access to inventory control processing fields.

3.1.5 Analytical

In addition to entering and editing container characterization data, Analytical users can import, enter and alter container-related isotopic values. Analytical users cannot join containers, execute container moves, or alter WICS setup data. An Analytical user corresponds to the *Analytical Manager or alternate* responsibility described within Section 3 of CH-UET-OP-014, Waste and Activity Inventory Control.

3.1.6 Surface Contaminated Object (SCO)

SCO privilege set has similar capabilities to the Analytical privilege set but the "Import Spreadsheet data" script limits this user from uploading any spreadsheet except for SCO types.

3.1.7 Read Only

Most *ad hoc* users of WICS are designated as Read Only. This user type can search containers, view authorizations and all detail and summary information in the system. However, Read Only users cannot alter entries made within the system.

3.1.8 Site Treatment Plan (STP)

A small number of users will be permitted to change the STP field in WICS Containers table. Otherwise, "Read Only" privileges apply to this group.

3.1.9 Shipping

To allow changes to specific shipping-related fields in WICS Container records, a small number of users will be granted the Shipping privilege set. Otherwise, "Read Only" privileges apply to this group.

3.1.10 Operator

Operators are users who are designated to operate only MoveControl activities, including bar code scanning operations. An Operator user corresponds to *Waste Operator* responsibility described within Section 3 of CH-UET-OP-014, Waste and Activity Inventory Control. This special class of user updates container data only through system validated processes administered in MoveControl functions (See CM-M-WP-003, MoveControl User Manual).

3.1.11 Network Access

WICS requires a workstation connected to the primary network at the TWPC. Therefore, any user requiring installation must first verify they have access to the server.

The easiest way to verify access to the server is to open any window on the local workstation and type in the following information in the "Address" field: "\\srv-fm12\".

If a user is unable to access the network, they must contact their network Administrator and ask for access to the TRUPROJECT domain.

3.2 FileMaker Server Administration (Administrators Only)

FileMaker Server was created to help organizations administer databases easily and efficiently. FileMaker Server is controlled through a console operated from any TWPC workstation. Complete instructions for administration of FileMaker files, users, and settings are available from within this console. The FileMaker Server Console is downloadable using a Web browser or by accessing it directly using Remote Desktop software connected to the SRV-FM server.

FileMaker Server Console instructions, including installation and administration of FileMaker Server (FMS), are located in the following internet address:

"http://www.filemaker.com/support/product/docs/12/fms/fms12_getting_started_en.pdf"

To access FMS 12 console from a TWPC workstation Web browser, enter the following URL: <http://192.168.10.12:16000>. When the FMS 12 screen displays, click the “Start Admin Console” button.

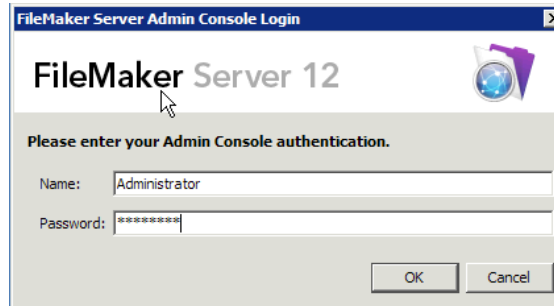


An application will download and install onto the workstation. The application operates a file named “FMS12-SRV-FM12 Production” and is available from within the workstation’s Programs directory and from the workstation’s Programs menu (if selected by the user during installation).

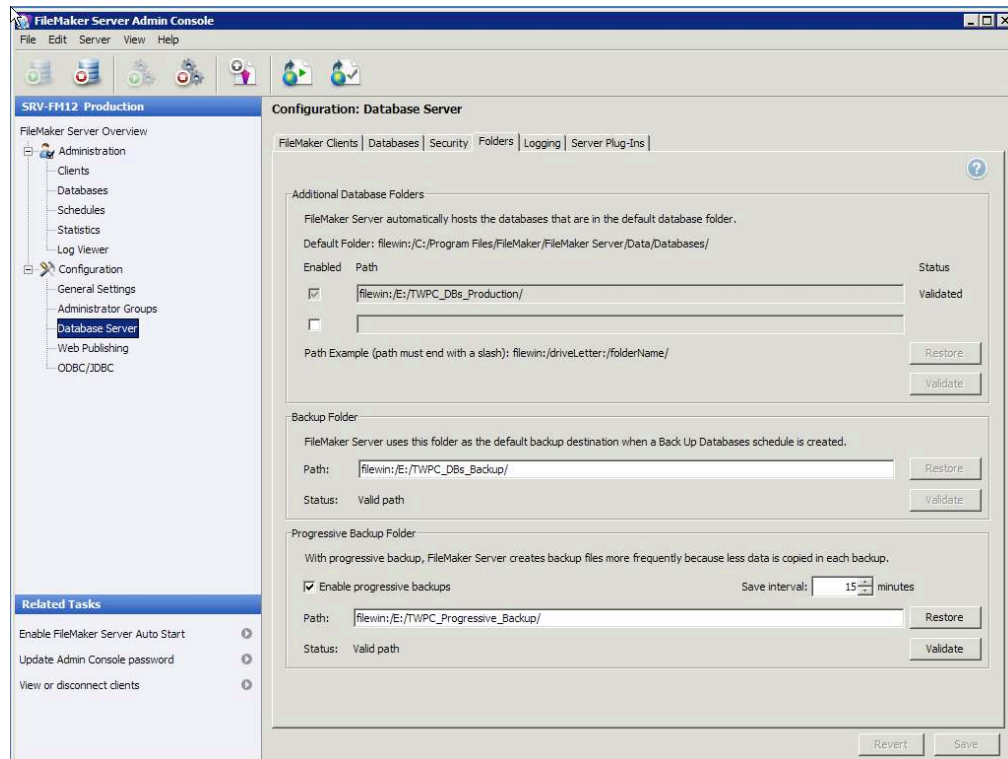


If FileMaker Server is not already set up to administer WICS, a default data directory must be set to the proper directory on the SRV-FM12 server. To accomplish this task, follow these steps:

1. Open the FileMaker Console file named “FMS12-SRV-FM12 Production”. Log in with a User Name of “Administrator” and a password that is available from TWPC Information Technology staff.



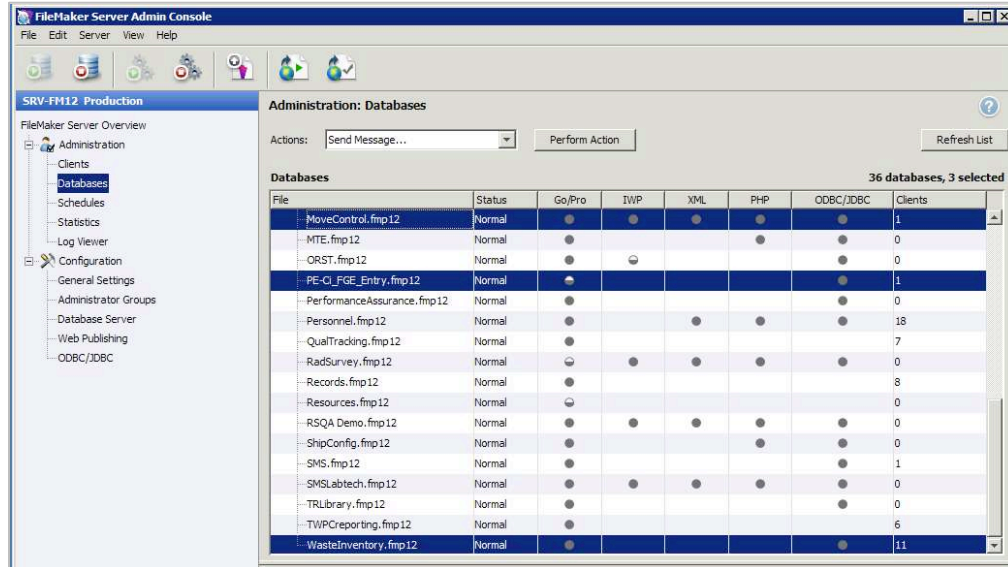
2. From the left pane of the console, select “Database Server” and the “Default Folders” tab.



3. Click the “Use additional database folder” check box, then enter validate the following information into the “Path” field:

filewin:/E:/TWPC_DBs_Production/

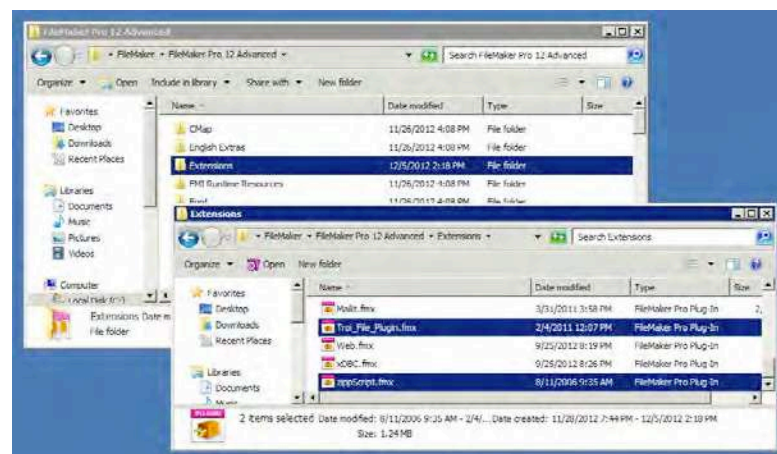
4. Save the changes. Verify that all FileMaker database documents, including WICS files named WasteInventory, MoveControl, and PE-Ci_FGE_Entry indicate a “Normal” status in the Databases panel of FileMaker server Console.



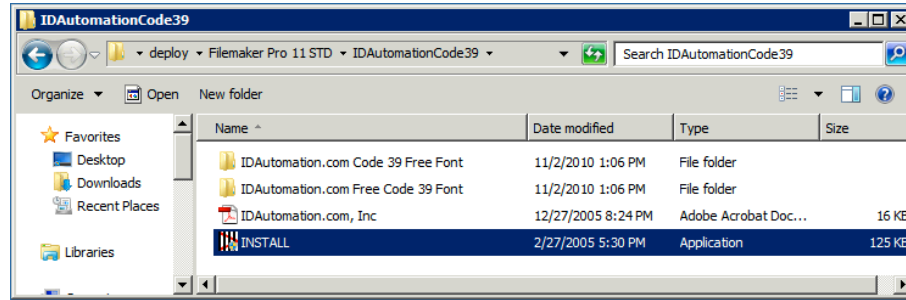
3.3 Local Installation

To interact with WICS, a user must have FileMaker Pro (Version 12 or greater) installed on their workstation.

1. FileMaker Pro is a standard Windows-based application that is easily installed on local workstations. For detailed installation instructions, including system requirements, contact TWPC information IT personnel.
2. After installing FileMaker Pro, all users must install additional software on their workstations. This additional software is available from TWPC Information Technology staff. Required components include:
 - a. Three small pieces of software, called plug-ins, Troi_file_plugin, TRfile, and ZippScript, must be installed in the Extensions directory within the FileMaker program directory.



- b. For barcode generation, install barcode fonts. "IDAutomationCode39" fonts must be installed by IT to user workstations .



4.0 SYSTEM OPERATION

Upon successful installation, users must first alert a WICS Administrator. The Administrator collaborates with TWPC Information Technology staff to assign the users account to the appropriate Privilege Set to access WICS

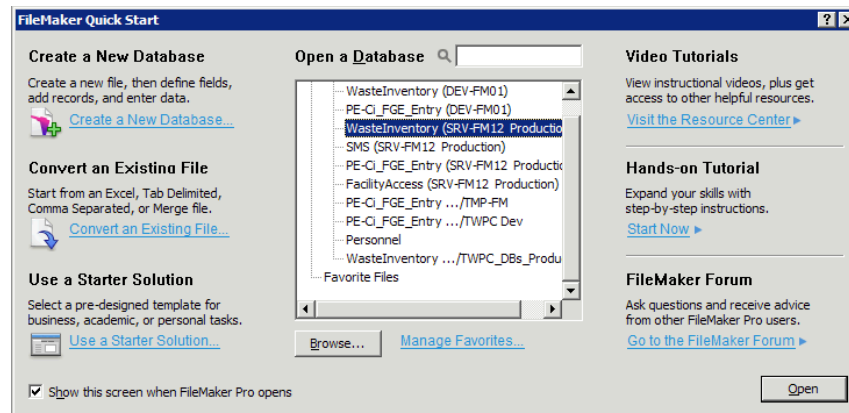
4.1 Open the System

Several methods can be used to open WICS:

1. TWPC employs an “opener” Web page from which users can click an icon to open certain WICS modules. This opener is accessible by typing the URL “http://192.168.10.12” into a TWPC workstation Web browser. When the opener page displays, click on either the Waste Inventory icon to access the appropriate file within WICS.

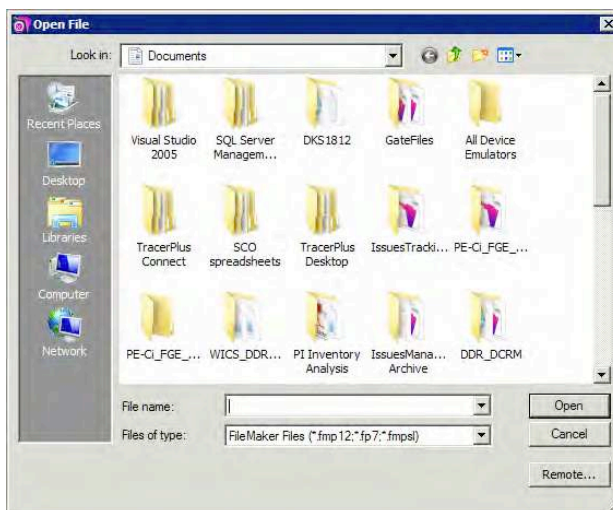


2. To manually open WICS directly from a user’s desktop follow these directions:
 - a. Open the FileMaker Pro application from the workstation’s programs menu or directory.
 - b. In most cases, the FileMaker “Quick Start” screen pops up. If so, click the “Browse” button to display the “Open File” dialog box.

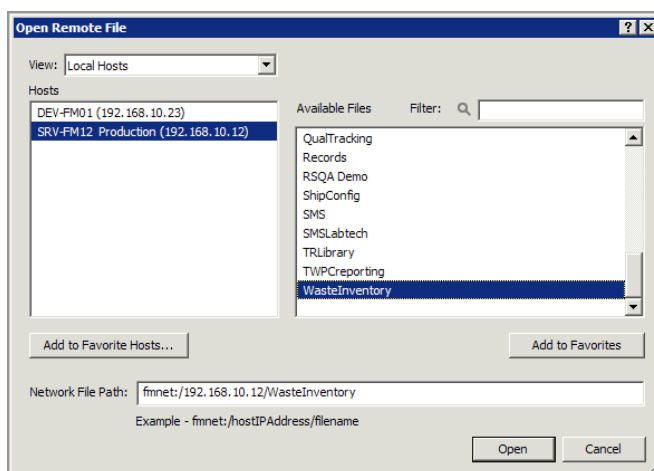


NOTE: The user may wish to uncheck “Show this screen when FileMaker Pro opens” box on the bottom of “Quick Start” screen to avoid this pop-up upon future sessions.

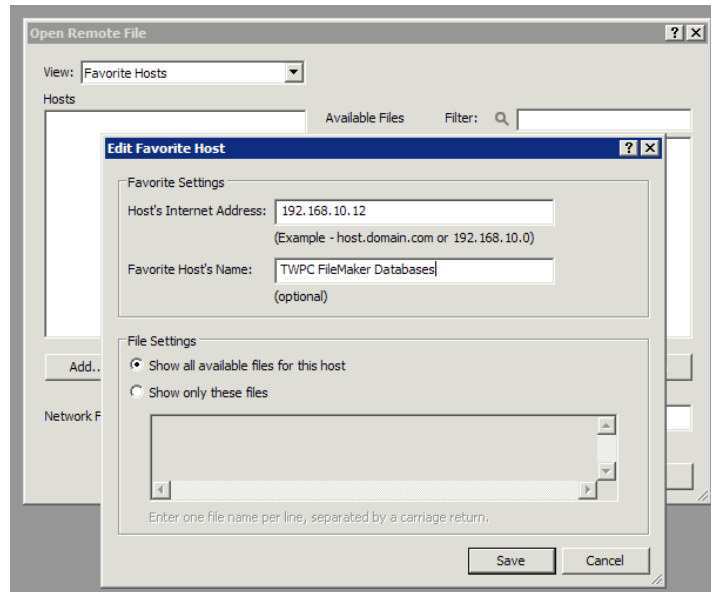
- c. From the “Open File” dialog box, click “Remote...” button.



- d. The “Open Remote File” dialog box displays with two columns. Click on the SRV-FM host in the left column to enable selection of the database files within an alphabetically sorted list in the right column. Upon selecting the WasteInventory file near the bottom of the list, click “Open” button.



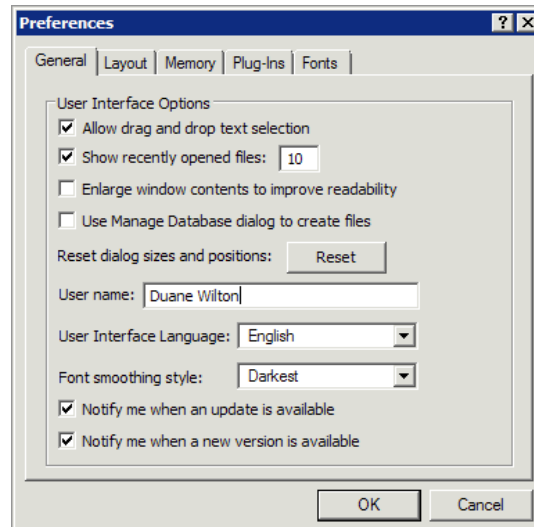
In the event that no “Local Hosts” display in the “Open Remote File” dialog box, a user may need to take additional steps to access WICS files. From the “View” dropdown list, select “Favorite Hosts.”



Enter “192.168.10.12” into the “Host’s Internet Address” field and click the Save button. This action should now display active FileMaker files in the right column.

In most cases, WICS files will open without authentication because TWPC’s network pre-authenticates users prior to opening system documents. However, after a database opens, a user may be required to enter their user name and password. The user name should consist of the First and Last names of the person. FileMaker Pro automatically enters the user name from the FileMaker preferences.

To set this user name for a specific workstation, select “Preferences” from the “Edit” menu and enter the user name in the appropriate field in the dialog box.



4.2 Interface

WICS employs a graphical user interface to make navigation user friendly and intuitive. Upon successful entry into the system, the Home Menu is the first screen displayed. Other screens are available by clicking the corresponding menu icon.

Each screen is viewable by all qualified users. However, entry and processing functions for Containers, Areas & Moves, and GB Activities are protected for specific users according to their privilege set.




4.2.1 Menu Icons & Links

On the header portion of the screens, a series of graphics represent the primary menu components of WICS. Clicking on these icons or their labels will take the user to the corresponding screen.

1. **Home Menu** is the main layout in WICS enabling users to view system announcements and a current site summary based on current inventory. This summary can be printed from the Home Menu. It also includes functions to find containers (by ID number) and move authorizations (by Move ID) and to initiate a new container record or container process change.
2. **Containers** is the layout that provides detailed information about physical containers that have been, are being or will be processed at the facility. This includes processing, movement, radiation values and other container-specific information.
3. **Areas & Moves** is the layout that enables users to enter or view information relating to container processing areas and moves of containers. This screen provides links for containers in process, container history, move TO areas, move FROM areas, area totals, limits and group summary values.
4. **GloveBox Activities** is the layout that enables users to assign containers to ports or bays, close out containers, join containers in stations or view area group values within the Glove Box and Box Breakdown Area (BBA). Activity for uncovered and covered containers is viewable from this layout.
5. **HotCell Activities** is the layout that enables users to join data for incoming and outgoing containers in the HotCell. Current covered and uncovered container activity within the HotCell is evaluated against preset limits and viewable from within this layout.
6. **CPE Activities** is the layout that enables users to join data for incoming and outgoing containers in the Cask Processing Enclosure (CPE). Current covered and uncovered container activity within the CPE is evaluated against preset limits and viewable from within this layout.



7. Menu Links on the right side of the header include:

- a. **Help**  **Help** provides users access to detailed help screens related to the many functions within WICS. Help is context-sensitive relating to the screen from which it is clicked.
- b. **Setup/Preferences**  **Setup/Preferences** enable the WICS Administrator to enter/modify settings and preferences. These system settings tables affect all system users. However, only users with Administrator privileges can modify these settings.
- c. **Exit Application**  **Exit Application** enables user to exit WICS completely, including the FileMaker application, or to close the System and FileMaker altogether.

4.2.2 Navigation Bar

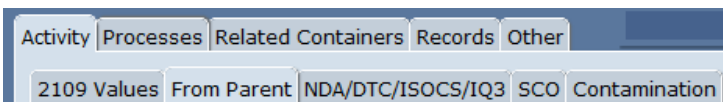
Below the Menu icons, some screens provide a blue and grey bar with additional icons to provide more functions. Here are the functions provided on the function bar:



1. The far left side of the function bar displays the active screen name.
2. The next section displays the user account name (from their login).
3. The next section displays the current date, based upon the user's workstation.
4. The right side of the navigation bar contains buttons to move forward and back in the open data table. These buttons include:
 - a. **Search.** This button will initiate a search sequence (when available), allowing the user to query WICS data.
 - b. **Show All.** After initiating certain system functions, FileMaker will display only a subset of records in a layout. The Show All button resets FileMaker to provide access to ALL records in the current table.
 - c. **Print** button initiates a script prompting the user for printing the current detail, list information, or WICS forms, when applicable.
 - d. **First|<<** button moves to the First Record in the current found set of records.
 - e. **Prev<** button moves to the Previous Record in current found set of records.
 - f. **>Next** button moves to the Next Record in current found set of records.
 - g. **>>|Last** button moves to the Last Record in current found set of records.

4.2.3 Screen Tabs

Most menu screens incorporate tabs. Clicking a tab takes the user to a screen with additional information corresponding to the tab label.



4.2.4 Data Entry Fields

Data entry fields are typically presented as white, engraved blocks. Typically, fields with a gray background represent displayed values that cannot be modified. All other fields allow direct entry for users with sufficient permissions to modify data within the specific table. A dialog box alerts users who lack sufficient privileges.

| Container Types | | | | | | | | | | | |
|-----------------|---------|--------------------------|--------------------------|--------------------------|--------------------------|------------|-----------|---------------|----------------|-----------------|-----------------|
| ID | Code | Container Type Name | Is Box | Is Cask | Is ME | PECi limit | FGE limit | Tare Wt (kgm) | Volume (cu.m.) | RCRA Drum Equiv | Add'l EPA codes |
| 15 | 30galOP | 30 gallon Overpack | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | .114 | .55 | |
| 22 | 55galOP | 30 gal drum in 55 gal OP | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | .21 | 1 | |

Many data entry fields incorporate a drop down value list (or calendar) from which the user can click on a value for automatic entry. In some cases, the user can bypass a value list by clicking a second time in the field after value list is displayed.

| Area 1 | Area 2 |
|----------|----------|
| | None |
| 1stFlr | None |
| CHGB | None |
| CHSA | None |
| CraneBay | CraneBay |
| DAC | None |
| DOE | None |
| RM,231 | None |
| Shipping | CraneBay |

For date entry, use the following date format: mm/dd/yyyy.


4.2.5 Buttons

Buttons are embossed, three-dimensional, labeled graphics appearing as:



Clicking a button initiates a system script to produce the desired action.


4.3 Help (All Users)

The Help function  **Help** assists users in operating and configuring WICS. It enables the user to quickly locate helpful information and procedures for corresponding screens and buttons within WICS.




Topic – descriptions or explanations for corresponding functions, links or tabs on the referenced page. Underlined topics refer to links and menu options; bracketed names refer to buttons. Remaining topics refer to screen tabs or other components on the referenced page.

Category – based upon screen name for the referenced page, Help screens default to topics within the screen from which the user initiates the Help function. To locate help on a specific topic, select the Help category "ALL".

Report an issue  button is located on the lower left side of each Help screen. It is used to communicate a system problem or issue to a WICS Administrator.

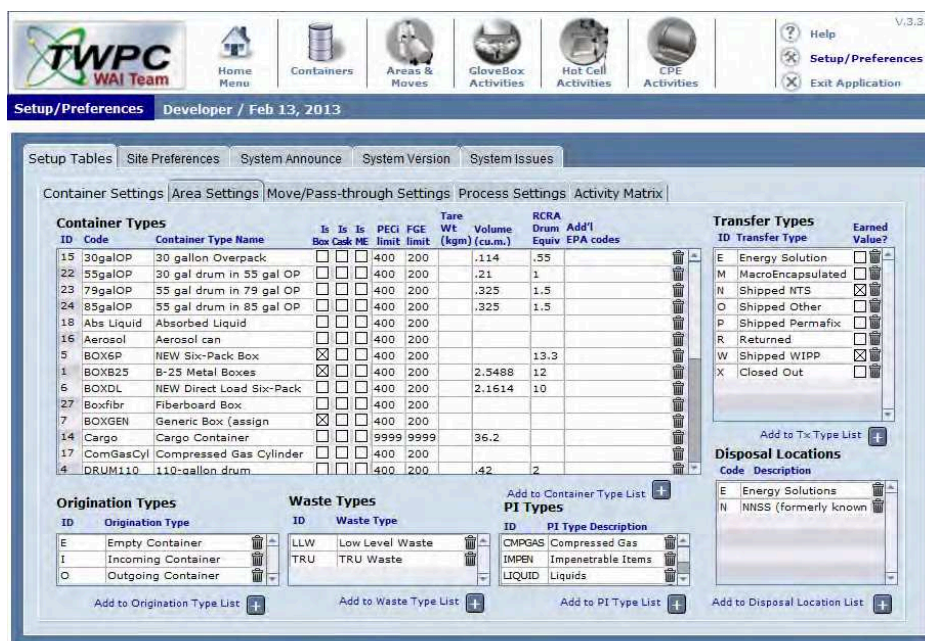
4.4 Exit Application (All Users)

The **Exit Application**  link is used to exit WICS and return to FileMaker or close FileMaker altogether. A confirmation dialog provides the user with these two options for exiting the system as well as the option to cancel the "exit" process:



5.0 SETUP & PREFERENCES (ENTERED BY ADMINISTRATOR ONLY)

WICS relies upon reference data within tables that must be maintained by an Administrator. For example, the logos used throughout the system can be changed to reflect changes within the organization. While non-administrative users can view these settings, the system prevents unauthorized users from modifying them.



The screenshot shows the "Setup/Preferences" screen for TWPC WAI Team. The top navigation bar includes icons for Home Menu, Containers, Areas & Moves, GloveBox Activities, Hot Cell Activities, CPE Activities, Help, Setup/Preferences, and Exit Application. The main content area is divided into several sections:


- Container Types:** A table with columns for ID, Code, Container Type Name, Is Box, Is Cask, Is ME, PEGI limit, FGE limit, Tare Wt (kgm), Volume (cu.m.), RCRA Drum Equiv, and Add'l EPA codes. It lists various container types like 30galOP, 55galOP, 79galOP, 85galOP, Abs Liquid, Aerosol, BOX6P, BOXB25, BOXDL, Boxfibr, BOXGEN, Cargo, ComGasCyl, and DRUM110.
- Transfer Types:** A table with columns for ID, Transfer Type, and Earned Value?. It lists types like Energy Solution, MacroEncapsulated, Shipped NTS, Shipped Other, Shipped Permafrix, Returned, Shipped WIPP, and Closed Out.
- Disposal Locations:** A table with columns for Code and Description. It lists Energy Solutions and NNSS (formerly known).
- Origination Types:** A table with columns for ID and Origination Type. It lists Empty Container, Incoming Container, and Outgoing Container.
- Waste Types:** A table with columns for ID and Waste Type. It lists Low Level Waste and TRU Waste.
- PI Types:** A table with columns for ID and PI Type Description. It lists Compressed Gas, Impenetrable Items, and Liquids.

Each section has an "Add to [Section Name] List" button at the bottom.

5.1 Setup Tables

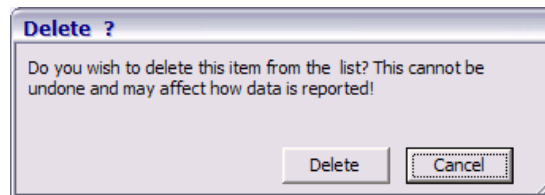
The most significant system administration is accomplished under the **Setup Tables** tab with individual tabs for: **Container Settings**, **Area Settings**, **Move/Pass-through Settings**, **Process Settings**, **Waste Streams**, and **Activity Matrix**.

The **Container Settings** tab is used to define/edit *Container Types*, *Waste Types*, *Origination Types*, *PI (Prohibited Item) Types* and *Disposal Locations*. The **Area Settings** tab is used to define/edit ICA criteria. The **Move/Pass-through Settings** tab is used to define/edit Move Settings and related Barcode Programs. The **Process Settings** tab is used to define/edit container Processes. The **Waste Stream** tab is used to create waste stream records referenced by containers and the associated EPA codes affiliated to that waste stream. The **Activity Matrix** tab is used to define/edit Isotopes and define/edit global calculation constants.

Creating a new record is initiated by clicking the **Add to...List**  button at the bottom of any table. This creates a new line in the table enabling an Administrator to enter data.

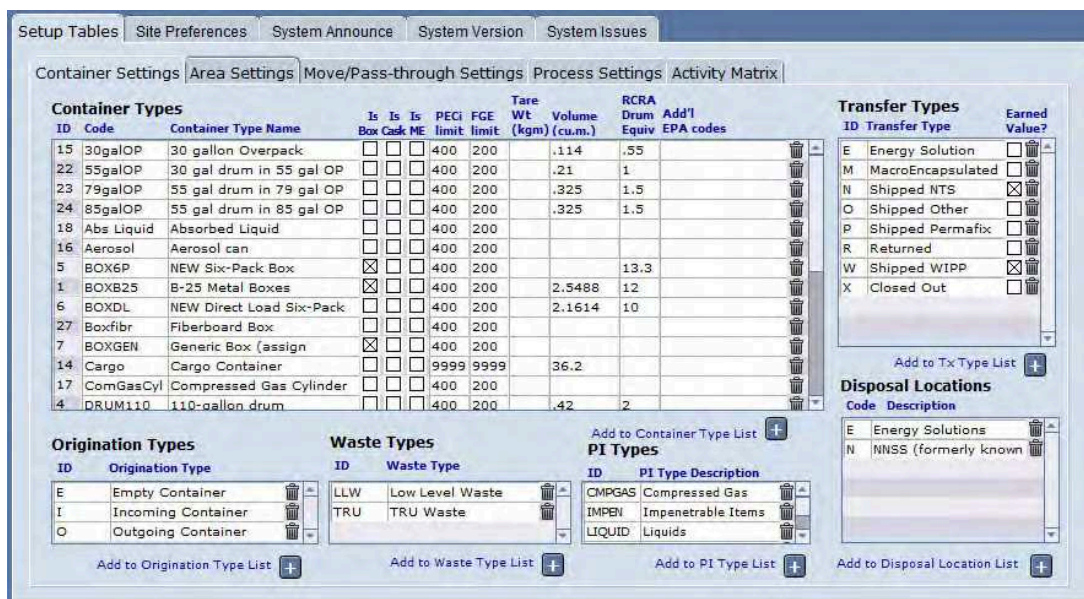
WARNING: Special consideration must be given before deleting or modify data in these tables. When critical system settings are modified, data throughout WICS is affected. Links to information within these tables may be irretrievably lost.

Whenever critical settings are selected for deletion, the Administrator is warned with a dialog box to verify this action:



5.1.1 Container Settings

The **Container Settings** tab under **Setup Tables** enables the entry of Container Types, Transfer Types, Origination Types, Waste Types, PI Types, and Disposal Locations.



| ID | Code | Container Type Name | Is Box | Is Cask | Is ME | PECi limit | FGE limit | Tare Wt (kgm) | Volume (cu.m.) | RCRA Drum Equiv | Add'l EPA codes |
|----|------------|--------------------------|-------------------------------------|--------------------------|--------------------------|------------|-----------|---------------|----------------|-----------------|-----------------|
| 15 | 30galOP | 30 gallon Overpack | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | .114 | .55 | | |
| 22 | 55galOP | 30 gal drum in 55 gal OP | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | .21 | 1 | | |
| 23 | 79galOP | 55 gal drum in 79 gal OP | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | .325 | 1.5 | | |
| 24 | 85galOP | 55 gal drum in 85 gal OP | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | .325 | 1.5 | | |
| 18 | Abs Liquid | Absorbed Liquid | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | | | |
| 16 | Aerosol | Aerosol can | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | | | |
| 5 | BOX6P | NEW Six-Pack Box | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | 13.3 | | |
| 1 | BOXB25 | B-25 Metal Boxes | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | 2.5488 | 12 | | |
| 6 | BOXDL | NEW Direct Load Six-Pack | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | 2.1614 | 10 | | |
| 27 | Boxfibr | Fiberboard Box | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | | | |
| 7 | BOXGEN | Generic Box (assign) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | | | |
| 14 | Cargo | Cargo Container | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9999 | 9999 | 36.2 | | | |
| 17 | ComGasCyl | Compressed Gas Cylinder | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | | | |
| 4 | DRUM110 | 110-gallon drum | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | .42 | 2 | | |


5.1.1.1 Container Types

The following table is used for adding new Container Types:

| Container Types | | | | | | | | | | | |
|-----------------|------------|--------------------------|-------------------------------------|--------------------------|--------------------------|------------|-----------|---------------|----------------|-----------------|-----------------|
| ID | Code | Container Type Name | Is Box | Is Cask | Is ME | PECi limit | FGE limit | Tare Wt (kgm) | Volume (cu.m.) | RCRA Drum Equiv | Add'l EPA codes |
| 15 | 30galOP | 30 gallon Overpack | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | .114 | .55 | | |
| 22 | 55galOP | 30 gal drum in 55 gal OP | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | .21 | 1 | | |
| 23 | 79galOP | 55 gal drum in 79 gal OP | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | .325 | 1.5 | | |
| 24 | 85galOP | 55 gal drum in 85 gal OP | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | .325 | 1.5 | | |
| 18 | Abs Liquid | Absorbed Liquid | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | | | |
| 16 | Aerosol | Aerosol can | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | | | |
| 5 | BOX6P | NEW Six-Pack Box | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | 13.3 | | |
| 1 | BOXB25 | B-25 Metal Boxes | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | 2.5488 | 12 | | |
| 6 | BOXDL | NEW Direct Load Six-Pack | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | 2.1614 | 10 | | |
| 27 | Boxfibr | Fiberboard Box | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | | | |
| 7 | BOXGEN | Generic Box (assign) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | | | |
| 14 | Cargo | Cargo Container | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9999 | 9999 | 36.2 | | | |
| 17 | ComGasCyl | Compressed Gas Cylinder | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | | | | |
| 4 | DRUM110 | 110-gallon drum | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 400 | 200 | .42 | 2 | | |









Click **Add to Container Type List** button to create a new record. On the new record line, assign the next container type number (system-generated) a corresponding Code (user-defined), Container Type Name (description), indicator designations for containers that are Incoming Boxes or Macro-encapsulation container (for reporting purposes), assign Pre-Non-Destructive Assay (NDA) Plutonium Equivalent Curies (PE-Ci) and Fissile Gram Equivalent (FGE) limits, enter a Tare Weight (kilograms) and Volume (cubic meters) and Drum Equivalent value and enter associated Additional EPA codes.


1. When a container type is a Macro Encapsulation container (identified as "ME" in the container type setup table), the Waste Type is set to "LLW" and the RCRA checkbox is enabled.
2. When a container is selected as type "11" (RH72B, RH 72-B Cask), the Waste Type is set to "TRU".


Use the vertical scroll bar (right side) to access records outside of the portal view. Click the Trash Can  to delete the corresponding Container Type record.

5.1.1.2 Transfer Types

The following table is used to add new Transfer Types:

| Transfer Types | | |
|----------------|-------------------|--|
| ID | Transfer Type | Earned Value? |
| E | Energy Solution | <input type="checkbox"/>  |
| M | MacroEncapsulated | <input type="checkbox"/>  |
| N | Shipped NTS | <input checked="" type="checkbox"/>  |
| O | Shipped Other | <input type="checkbox"/>  |
| P | Shipped Permafrix | <input type="checkbox"/>  |
| R | Returned | <input type="checkbox"/>  |
| W | Shipped WIPP | <input checked="" type="checkbox"/>  |
| X | Closed Out | <input type="checkbox"/>  |

Click **Add to Transfer Type List**  button to create a new record. Assign a unique Transfer Type ID and description. Checking the “Earned Value” indicator in this table includes records with the unique transfer type ID in earned value reporting.


Use the vertical scroll bar (right side) to access records outside the portal view. Click the Trash Can  to delete the corresponding Transfer Type record.

5.1.1.3 Origination Types

The following portal is used to add new Origination Types:

| Origination Types | | |
|------------------------------|--------------------|---|
| ID | Origination Type | |
| E | Empty Container |  |
| I | Incoming Container |  |
| O | Outgoing Container |  |
| Add to Origination Type List | |  |

Click **Add to Origination Type List**  button to create a new record. Assign a unique Origination Type ID with description.

Use the vertical scroll bar (right side) to access records outside the portal view. Click the Trash Can  to delete the corresponding Origination Type record.

5.1.1.4 Waste Types

The following portal is used to add new Waste Types:



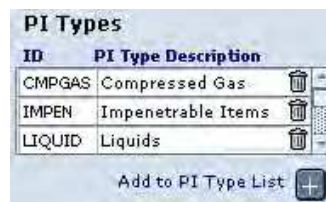
| ID | Waste Type | |
|------------------------|-----------------|--|
| LLW | Low Level Waste | |
| TRU | TRU Waste | |
| Add to Waste Type List | | |

Click **Add to Waste Type List** button to create a new record. On the new record line, assign a unique Waste Type ID with corresponding Waste Type.

Use the vertical scroll bar (right side) to access records outside the portal view. Click the Trash Can to delete the corresponding Waste Type record.

5.1.1.5 PI Types

The following portal is used to add new PI (Prohibited Item) Types:



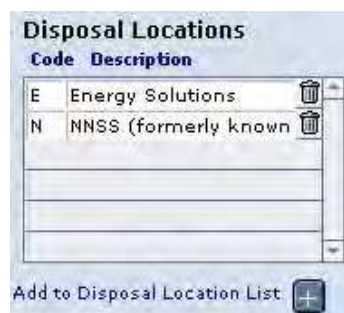
| ID | PI Type Description | |
|---------------------|---------------------|--|
| CMPGAS | Compressed Gas | |
| IMPEN | Impenetrable Items | |
| LIQUID | Liquids | |
| Add to PI Type List | | |

Click **Add to PI Type List** button to create a new record. On the new record line, assign a unique Waste Type ID with corresponding PI Type Description.

Use the vertical scroll bar (right side) to access records outside the portal view. Click the Trash Can to delete the corresponding Waste Type record.

5.1.1.6 Disposal Locations

The following portal is used to add new Disposal Locations to WICS:



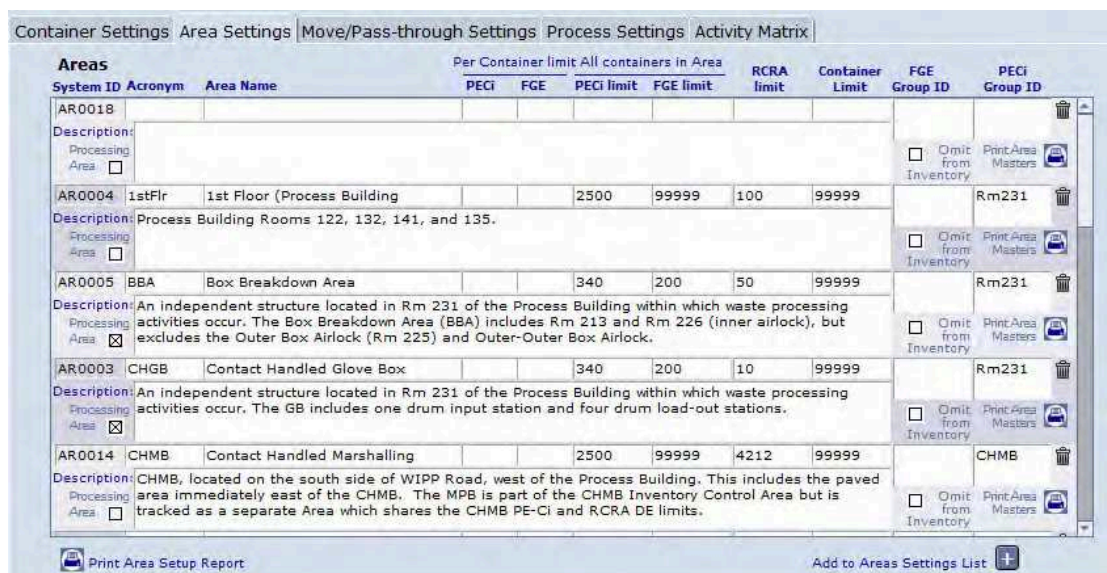
| Code | Description | |
|-------------------------------|----------------------|--|
| E | Energy Solutions | |
| N | NNSS (formerly known | |
| Add to Disposal Location List | | |

Click **Add to Disposal Location List** button to create a new record. On the new record line, assign a unique Code with corresponding Disposal Location Description.

Use the vertical scroll bar (right side) to access records outside the portal view. Click the Trash Can to delete the corresponding Disposal Location record.


5.1.2 Area Settings

The following portal is used for adding new Areas to the system:




| Areas | | Per Container limit | | All containers in Area | | RCRA limit | Container Limit | FGE Group ID | PE-Ci Group ID |
|---|---------|------------------------------|-------|------------------------|-------------|------------|-----------------|--------------|----------------|
| System ID | Acronym | Area Name | PE-Ci | FGE | PE-Ci limit | | | | |
| AR0018 | | | | | | | | | |
| Description: Processing Area. <input type="checkbox"/> Omit from Inventory <input type="checkbox"/> Print Area Masters | | | | | | | | | |
| AR0004 | 1stFlr | 1st Floor (Process Building) | | | 2500 | 99999 | 100 | 99999 | Rm231 |
| Description: Process Building Rooms 122, 132, 141, and 135. <input type="checkbox"/> Omit from Inventory <input type="checkbox"/> Print Area Masters | | | | | | | | | |
| AR0005 | BBA | Box Breakdown Area | | | 340 | 200 | 50 | 99999 | Rm231 |
| Description: An independent structure located in Rm 231 of the Process Building within which waste processing activities occur. The Box Breakdown Area (BBA) includes Rm 213 and Rm 226 (inner airlock), but excludes the Outer Box Airlock (Rm 225) and Outer-Outer Box Airlock. <input type="checkbox"/> Omit from Inventory <input type="checkbox"/> Print Area Masters | | | | | | | | | |
| AR0003 | CHGB | Contact Handled Glove Box | | | 340 | 200 | 10 | 99999 | Rm231 |
| Description: An independent structure located in Rm 231 of the Process Building within which waste processing activities occur. The GB includes one drum input station and four drum load-out stations. <input checked="" type="checkbox"/> Omit from Inventory <input checked="" type="checkbox"/> Print Area Masters | | | | | | | | | |
| AR0014 | CHMB | Contact Handled Marshalling | | | 2500 | 99999 | 4212 | 99999 | CHMB |
| Description: CHMB, located on the south side of WIPP Road, west of the Process Building. This includes the paved area immediately east of the CHMB. The MPB is part of the CHMB Inventory Control Area but is tracked as a separate Area which shares the CHMB PE-Ci and RCRA DE limits. <input type="checkbox"/> Omit from Inventory <input type="checkbox"/> Print Area Masters | | | | | | | | | |


Print Area Setup Report Add to Areas Settings List

Click **Add to Areas Settings List**  button to create a new record. The system automatically creates a new record and assigns the **System ID**. On the new record line, the Administrator must enter a unique **Acronym** and descriptive **Area Name**.

For this new area, the Administrator must then enter the **Per Container PE-Ci and FGE limits**, **PE-Ci limit**, **FGE limit**, **RCRA limit** and **Container limit**. The **FGE Group ID** and **PE-Ci Group ID** are required for areas within a group. The **Description** field is used to describe the area's location and other characteristics, as applicable.

Certain areas may be created for staging purposes only. Therefore, the Administrator may opt to **Omit** inventory values from TWPC totals.

Click the **Print Area Masters**  button to print the bar code sheets used at the specified ICA scanning station. Masters include the required AREA ID bar code, scanner application selector bar codes, and all process ID bar codes related to the area.

Use the vertical scroll bar (right side) to access records outside the portal view. Click the Trash Can  to delete the corresponding Area Settings record.

5.1.3 Move/Pass-through Settings

WICS relies upon the Move/Pass-through settings table to determine when a Move Authorization is required when a container process is changed. This table also determines which scanning application will be invoked when a container exits from an ICA or when entering into the destination area. In addition, this table is used to determine the path of a container move, thus identifying the "pass-through" areas involved in a move.

This table is used as a central component to WICS to pre-evaluate the PE-Ci and FGE effects from container moves prior to their completion.

Container Settings | Area Settings | Move/Pass-through Settings | Process Settings | Activity Matrix

Move Settings

Select the Pass-through areas related to a move.
(Do NOT enter Originating or Destination Areas here)

| Originating Area | App Out | Destination Area | App In | Move Type | Minutes til Alert | Area 1 | Area 2 | Area 3 | Area 4 |
|------------------|---------|------------------|--------|-------------------|-------------------|--------|----------|--------|--------|
| DOE | | CHSA | 01 | Transfer to WPF | | None | None | None | None |
| DOE | | Rm231 | 01 | Transfer to WPF | | None | None | None | None |
| DOE | | DAC | 01 | Transfer to WPF | | None | None | None | None |
| DOE | | CraneBay | 01 | Transfer to WPF | | None | None | None | None |
| DOE | | SSA | 01 | Transfer to WPF | | None | None | None | None |
| DOE | | HotCell | 01 | Transfer to WPF | | None | None | None | None |
| DOE | | DVB | 01 | Transfer to WPF | | None | None | None | None |
| DOE | | CHMB | 01 | Transfer to WPF | | None | None | None | None |
| DOE | | MPB | 01 | Transfer to WPF | | None | None | None | None |
| CHSA | 01 | Rm231 | 03 | Move Container(s) | | None | None | None | None |
| CHSA | 01 | CHGB | 03 | Move Container(s) | | Rm231 | None | None | None |
| CHSA | 01 | 1stFlr | 03 | Move Container(s) | | DAC | CraneBay | None | None |
| CHSA | 01 | BBA | 03 | Move Container(s) | | Rm231 | None | None | None |

Barcode Programs

| Number | App Name |
|--------|---|
| 01 | Originate or complete container move, without weight, container scans |
| 02 | Originate or complete container move, enter weight. |
| 03 | Complete move at a destination area, no container scan required. |

Add to Pass-through Settings List +

Print Bar Code Control Sheets with Move Authorizations

Add to Scan App List +

5.1.3.1 Move Settings

Click **Add to Pass-through Settings List** + button to create a new record.

Click on the **Originating Area** field to display a drop down list of available values (from **Area Settings** table, see **Section 5.1.2**). The selected Area ID is displayed in the field (for reference only) while the drop down list is active. Repeat the selection process for entries in the **Destination Area** field.

Move Settings

| Originating Area | App Out | Destination Area | App In |
|------------------|---------|------------------|--------|
| AR0000 | | CHSA | 01 |
| 1stFlr | | Rm231 | 01 |
| BBA | | DAC | 01 |
| CHGB | | CraneBay | 01 |
| CHMB | | SSA | 01 |
| CHSA | | HotCell | 01 |
| CraneBay | | DVB | 01 |
| DAC | | CHMB | 01 |
| DVB | | Rm231 | 03 |
| DVS | | | |
| CHSA | 01 | CHGB | 03 |
| CHSA | 01 | 1stFlr | 03 |
| CHSA | 01 | BBA | 03 |

Move Settings

| Originating Area | App Out | Destination Area | App In |
|------------------|---------|------------------|--------|
| DOE | | AR0001 | 01 |
| DOE | | 1stFlr | |
| DOE | | BBA | |
| DOE | | CHGB | |
| DOE | | CHMB | |
| DOE | | CHSA | |
| DOE | | CraneBay | |
| DOE | | DAC | |
| DOE | | DOE | |
| DOE | | DVB | |
| CHSA | 01 | DVS | |
| CHSA | 01 | CHGB | 03 |
| CHSA | 01 | 1stFlr | 03 |
| CHSA | 01 | BBA | 03 |

App Out

Click on the **App Out** field to select a Barcode Scanner application from the drop down list of available values (see **Barcode Programs** table):

| Move Settings | | | |
|------------------|---------|------------------|--------|
| Originating Area | App Out | Destination Area | App In |
| DOE | | DVB | 01 |
| DOE | | CHMB | 01 |
| CHSA | 01 | Rm231 | 03 |
| CHSA | 02 | HGB | 03 |
| CHSA | 03 | 1stFlr | 03 |
| CHSA | 04 | BA | 03 |
| CHSA | 05 | AC | 03 |
| CHSA | 06 | | |
| CHSA | 01 | CraneBay | 03 |
| CHSA | 01 | Shipping | 03 |
| CHSA | 01 | SSA | 03 |
| CHSA | 01 | OffSite | |
| CHSA | 01 | DVB | 03 |

Select a Barcode Program number that applies to containers moving OUT of this Originating Area. In some cases (i.e., containers originating from an external source), a Barcode Program will not be required. This value determines the move process and related paperwork whenever a container process in this Originating Area is changed (**Initiate Process Change/Move** function, see **Section 6.1.2**).

App In

Click on the **App In** field to select a Barcode Scanner application from the drop down list of available values (see **Barcode Programs** table):

| Move Settings | | | |
|------------------|---------|------------------|--------|
| Originating Area | App Out | Destination Area | App In |
| DOE | | DVB | 01 |
| DOE | | CHMB | 01 |
| CHSA | 01 | Rm231 | 01 |
| CHSA | 01 | CHGB | 02 |
| CHSA | 01 | 1stFlr | 03 |
| CHSA | 01 | BBA | 04 |
| CHSA | 01 | DAC | 05 |
| CHSA | 01 | | 06 |
| CHSA | 01 | CraneBay | 03 |
| CHSA | 01 | Shipping | 03 |
| CHSA | 01 | SSA | 03 |
| CHSA | 01 | OffSite | |
| CHSA | 01 | DVB | 03 |

Select a Barcode Program number that applies to containers moving INTO this Destination Area. In most cases, a Barcode Program will be required. This value determines the type of move process required whenever a container process in this Destination Area is changed. See **Section 6.1.2 Initiate Process Change/Move** for additional information.

Move Type

The **Move Type** is selected from a drop down list. These Move Type selections are required for TWPC reporting. Move Types are evaluated by WICS during process changes to automatically enter a Container's receipt date (based on a process change that transfers a container to the site), Ship date (Based on a process that Ships a container offsite or when a TRU container is staged in a TWPC warehouse, staging it for shipment). **Minutes til Alert** is currently not implemented. In a future version, this field may be used to trigger administrators of moves that have not occurred in a timely fashion.

| Move Settings | | | | | Select the Pass-through areas related to a move. (Do NOT enter Originating or Destination Areas here) | | | | |
|------------------|---------|------------------|--------|-------------------|--|--------|----------|--------|--------|
| Originating Area | App Out | Destination Area | App In | Move Type | Minutes til Alert | Area 1 | Area 2 | Area 3 | Area 4 |
| DOE | | DVB | 01 | Transfer to WPF | | None | None | None | None |
| DOE | | CHMB | 01 | Transfer to WPF | | None | None | None | None |
| CHSA | 01 | Rm231 | 03 | Transfer to WPF | | None | None | None | None |
| CHSA | 01 | CHGB | 03 | Move Container... | | Rm231 | None | None | None |
| CHSA | 01 | 1stFlr | 03 | TRU Stage | | DAC | CraneBay | None | None |
| CHSA | 01 | BBA | 03 | Ship Offsite | | Rm231 | None | None | None |
| CHSA | 01 | DAC | 03 | Move Container(s) | | None | None | None | None |
| CHSA | 01 | CraneBay | 03 | Move Container(s) | | DAC | None | None | None |

Area 1...Area 4 (pass-through areas)

Click on the Area 1...Area 4 fields to display a drop down list of available values (from Area Settings table, see Section 5.1.2):

Do NOT enter the Originating or Destination Areas in Pass-through fields

| Move Settings | | | | | Select the Pass-through areas related to a move. (Do NOT enter Originating or Destination Areas here) | | | | |
|------------------|---------|------------------|--------|-------------------|--|----------|--------|--------|--------|
| Originating Area | App Out | Destination Area | App In | Move Type | Minutes til Alert | Area 1 | Area 2 | Area 3 | Area 4 |
| DOE | | DVB | 01 | Transfer to WPF | | None | None | None | None |
| DOE | | CHMB | 01 | Transfer to WPF | | | None | None | None |
| CHSA | 01 | Rm231 | 03 | Move Container(s) | | 1stFlr | ne | None | None |
| CHSA | 01 | CHGB | 03 | Move Container(s) | | BBA | ne | None | None |
| CHSA | 01 | 1stFlr | 03 | Move Container(s) | | CHGB | ne | None | None |
| CHSA | 01 | BBA | 03 | Move Container(s) | | CHMB | aneBay | None | None |
| CHSA | 01 | DAC | 03 | Move Container(s) | | CHSA | ne | None | None |
| CHSA | 01 | CraneBay | 03 | Move Container(s) | | CraneBay | ne | None | None |
| CHSA | 01 | Shipping | 03 | Move Container(s) | | DAC | ne | None | None |
| CHSA | 01 | SSA | 03 | Move Container(s) | | DOE | ne | None | None |
| CHSA | 01 | OffSite | | Ship Offsite | | DVB | ne | None | None |
| | | | | | | DVS | ne | None | None |
| | | | | | | None | None | None | None |


These fields are used to identify the areas a container must pass through between its **Originating Area** and a **Destination Area** based upon the specific Move Type. These pass-through areas are identified to account for the radiation values of the container (or containers) being moved through these areas. (Provisional moves exceeding a specific percentage of area limits may require additional move authorization.)

Do NOT enter the Originating Area or Destination Area in these fields

Select each pass-through area between the Originating Area and the Destination Area, as applicable. In some cases, no pass-through area will apply. In other cases, only one or two will apply. Leave the value of the field "None" where no pass-through area applies.

Do NOT enter the Originating Area or Destination Area in these fields

When making **Area** selections from the drop down list, the selected Area ID is displayed in the field (for reference only) while the drop down list is active.

Use the vertical scroll bar (right side) to access records outside the portal view. Click the Trash Can  to delete the corresponding Move/Pass-through Settings record.

WARNING: Use extreme caution when deleting a record from this table.

5.1.3.2 Barcode Programs

The following portal is used to add/delete programs. These programs must first exist as applications on the physical scanner prior to implementation within WICS or MoveControl:



| Number | AppName | |
|--------|---|--|
| 01 | Originate or complete container move, without weight | |
| 02 | Originate or complete container move, enter weight | |
| 03 | Complete move at a destination area, no container scan required | |

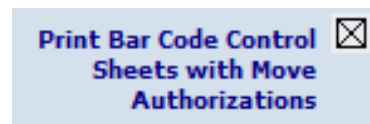
Add to Scan App List

Click **Add to Scan App List** button to create a new record. A numeric Barcode Program **Number** is sequentially assigned (used in **Move Settings** table above). The Administrator enters the **AppName** (application name/ short description).

Use the vertical scroll bar (right side) to access records outside the portal view. Click the Trash Can to delete the corresponding Barcode Programs record.

WARNING: Deleting a Barcode Program will have direct impact on the **Move Settings** table (above). Ensure the Barcode Program number is not assigned to any of the **App Out** or **App In** fields in the **Move Settings** table above.

The **Print Bar Code Control Sheets with Move Authorizations** ☒ checkbox is selected when the X appears in the box. To deactivate, click the box ☐ to toggle off the print instructions.



5.1.4 Process Settings

One of the foundations to WICS is to track containers according to the process or status of each container within the site. Each process or status is attached to a specific Area. Specific processes are recorded as Milestones for reporting purposes. Therefore, WICS requires setup of both Processes and Report Milestones.

Container Settings | Area Settings | Move/Pass-through Settings | Process Settings | Activity Matrix

Process Settings

| ID | Acronym or Short Name | Name or Short Description | Related to Area | Req'd DR | Min Hours | Milestone | Unseal Container |
|---------|-----------------------|-----------------------------|-----------------|----------|-----------|-----------|--------------------------|
| PR50025 | FlamGas | Flammable Gas Sampling | 1stFlr | FGA | | | <input type="checkbox"/> |
| PR50015 | HSG | Head Space Gas | 1stFlr | HSG | | | <input type="checkbox"/> |
| PR50014 | S-1stFlr | Staging container(s) in 1st | 1stFlr | | | | <input type="checkbox"/> |
| PR50026 | Summa | Summa Can Sampling | 1stFlr | SUMMA | | | <input type="checkbox"/> |
| PR50016 | TempEq | Temperature Equilibration | 1stFlr | | 72 | | <input type="checkbox"/> |
| PR50010 | ME-BBA | Macro-Encapsulation in BBA | BBA | | | | <input type="checkbox"/> |
| PR50021 | Repack (B) | Repackaging without VE | BBA | | | Repack | <input type="checkbox"/> |
| PR50046 | VEL-BBA | Visual Examination in Lieu | BBA | | | Repack | <input type="checkbox"/> |
| PR50020 | VET (B) | Visual Examination | BBA | | | Repack | <input type="checkbox"/> |
| PR50009 | Refilter | Replace Filter Only | CHGB | | | | <input type="checkbox"/> |
| PR50005 | Repack | Repackaging without VE | CHGB | | | Repack | <input type="checkbox"/> |
| PR50008 | VEL-GB | Visual Examination in Lieu | CHGB | | | Repack | <input type="checkbox"/> |
| PR50006 | VER | Visual Examination to | CHGB | | | Repack | <input type="checkbox"/> |
| PR50007 | VET | Visual Examination | CHGB | | | Repack | <input type="checkbox"/> |
| PR50041 | ME (CHMB) | Macro-Encapsulation CHMB | CHMB | | | Macro | <input type="checkbox"/> |
| PR50040 | NDA (CHMB) | Non-Destructive Assay | CHMB | | | NDA | <input type="checkbox"/> |
| PR50023 | Receipt | Receipt of Waste | CHMB | | | | <input type="checkbox"/> |
| PR50024 | S-CHMB | Staging of Containers | CHMB | | | | <input type="checkbox"/> |

Add to Process Settings List


Report Milestones

| ID | Seq | Milestone | Days Eval? |
|-----|-----|-----------|----------------------------|
| M01 | 01 | Received | 4 <input type="checkbox"/> |
| M03 | 03 | NDE | 4 <input type="checkbox"/> |
| M04 | 04 | NDA | 4 <input type="checkbox"/> |
| M05 | 05 | Repack | 4 <input type="checkbox"/> |
| M08 | 08 | Macro | 4 <input type="checkbox"/> |
| M09 | 09 | Shipped | <input type="checkbox"/> |

Add to Milestone List

5.1.4.1 Processes

The Process Settings table enables the administrator to set up Processes that will attach to containers as they move through TWPC.

Click **Add to Process Settings List**  button to create a new process or status record. On the new record line, the system assigns a unique (sequential) process **ID**. The Administrator enters a unique **Acronym** (abbreviated name) for the new process and a descriptive process **Name** (short description).


The **Related to Area** field provides a drop down list of available values from the **Area Settings** table (see Section 5.1.2). The **Required DR** acronym is entered for processes normally requiring one. The **Minimum Hours** field (optional) specifies the minimum number of hours normally required to complete this process. These values can be used for reporting and evaluation for such processes as Drum Aging.

Report Milestones

| ID | Seq | Milestone | Days Eval? |
|-----|-----|-----------|----------------------------|
| M01 | 01 | Received | 4 <input type="checkbox"/> |
| M03 | 03 | NDE | 4 <input type="checkbox"/> |
| M04 | 04 | NDA | 4 <input type="checkbox"/> |
| M05 | 05 | Repack | 4 <input type="checkbox"/> |
| M08 | 08 | Macro | 4 <input type="checkbox"/> |
| M09 | 09 | Shipped | <input type="checkbox"/> |

Add to Milestone List


Certain processes may require environmental reporting due to the affected containers becoming unsealed. To allow for such reporting, check the **Unseal Container** box for the process row.


Use the vertical scroll bar (right side) to access records outside the portal view. Click the Trash Can  to delete the corresponding Process Settings record.

WARNING: Use extreme caution when deleting any record from this table.

5.1.4.2 Report Milestones

For TWPC performance reporting and revenue projections, certain processes are encompassed within Report Milestones.

Click **Add to Milestones List**  button to create a new Milestone record. A new milestone **ID** is automatically assigned upon creation. To place the Milestone record in the order in which it is to be evaluated in performance reporting, a **Seq** (Sequence) number can be entered. Sequences should always be two digits. Therefore, the Administrator must enter a leading zero for sequences with a numeric value of less than 10. The Administrator enters a single-word **Milestone** description. The administrator enters the number of **Days** expected to take place between the Milestone process and the next Milestone in sequence. If the milestone is to be evaluated for “Past Due” reporting, the administrator checks the “Eval?” checkbox.

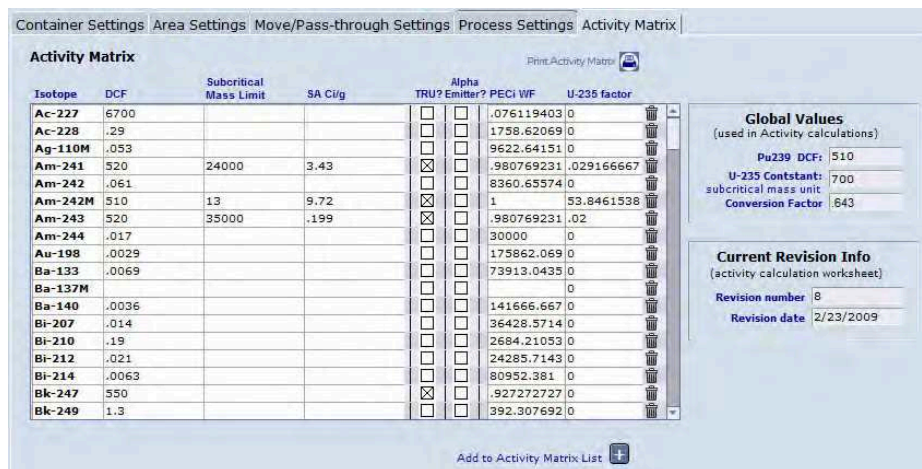
Use the vertical scroll bar (right side) to access records outside the portal view. Click the Trash Can  to delete the corresponding Milestone record.


WARNING: Use extreme caution when deleting any record from this table.

5.1.5 Activity Matrix

As containers enter the System, they are characterized by isotopic activity referenced to specific conversion factors. The **Activity Matrix** table is used to assign isotope names and the corresponding values used as conversion factors in calculating FGE and PE-Ci for each container. This table is a “lookup table” that will be referenced each time a container is characterized. Therefore, all entries should be made according to the TWPC’s procedural requirements for PE-Ci and FGE Conversion Calculations.

Using this setup table, Isotopes and conversion settings are pre-entered into the System. Revision number and date fields allow administrators to communicate what factors and isotopes are currently displayed in the system.



If additional isotopes are required for characterization, an administrator can click the **Add to Activity Matrix List**  button to create a new Isotope record. Use the vertical scroll bar (right side) to access records outside the portal view.

Click the Trash Can  to delete the corresponding Activity Matrix List record.

On the new record line, the administrator will enter the unique **Isotope** name and the corresponding isotopic values:

- **Dose Conversion Factor (DCF)**
- **Subcritical Mass Limit**
- **SA (Ci/g):** The Specific Activity of the radionuclide (Curies/gram)
- **TRU:** Identify when an element is transuranic.
- **Alpha Emitter?:** Identify when an element is an alpha emitter.

To assist entry, the Activity Matrix calculates the element's **PE-Ci WF** (weighting factor) value and **U-235** factor are calculated using preset formulae designed into the system.

Global Values

Certain Global Values are employed as constants in the **Activity** calculations described above:



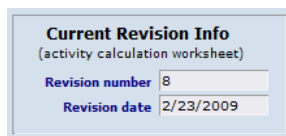
| Global Values (used in Activity calculations) | |
|--|-----|
| Pu239 DCF: | 510 |
| U-235 Constants: subcritical mass unit | 700 |
| Conversion Factor | 643 |

The Administrator is permitted to enter the **PU-239 DCF** (i.e., dose conversion factor for Pu-239) and **U-235 Constant** (i.e., the subcritical mass limit for U-235) for system calculations here. In addition, the site employs a global **Conversion Factor** for FGE Pu-239 calculations.

WARNING: Modifying these global constants will affect calculated values for all future container characterization. Exercise caution when making changes.

Current Revision Info

WICS is used in conjunction with other TWPC systems and spreadsheets. Changes within the Activity Matrix should also be made in related spreadsheets to assure conversion calculation match. Upon changing activity matrix and spreadsheet data, the **Current Revision Info** field entries must be changed to correspond with the latest spreadsheet version.



| Current Revision Info (activity calculation worksheet) | |
|---|-----------|
| Revision number | 8 |
| Revision date | 2/23/2009 |

5.2 Site Preferences

The “Site Preferences” tab under the **Setup/Preferences** screen enables an Administrator to modify the logos, addresses and Site ID for the TWPC. Changes can be made by

replacing data in the fields with overwriting (or pasting over) the existing data. Only Administrators with Administrator privilege sets are permitted to modify these fields.



Setup Tables Site Preferences System Announce System Version System Issues

Site Name TRU Waste Processing Centery

Site ID X10C

Mail Address Line 1 100 WIPP Road

Mail Address Line 2

City/State/Zip Lenoir City TN 37771

Ship Address Line 1 100 WIPP Road

Ship Address Line 2

City/State/Zip Lenoir City TN 37771

Print Logo

Screen Logo

Procedure (procedure identifier associated with this system. This identifier will print on forms generated from this system.)

CH-UET-OP-014 R4

Procedure History 9/5/2012 10:02:13 AM: Procedure ID changed from CH-P-OP-014 by dave.kaveshan.

5.2.1 Site Name

This name may be used throughout the system as a global value.

5.2.2 Site ID

This ID is reserved for future RCRA related reporting.

5.2.3 Print Logo

This graphic is utilized throughout the system for all printable documents.

5.2.4 Screen Logo

This graphic is utilized throughout the system for all viewable screens.

5.2.5 Mail Address

This Mailing Address may be used throughout system.

5.2.6 Ship Address

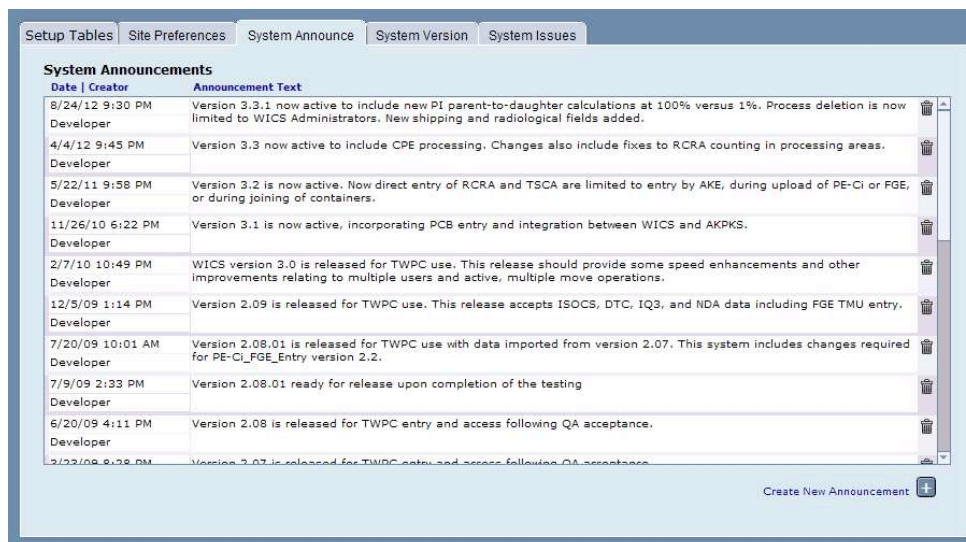
This Shipping Address may be used throughout the system.

5.2.7 Procedure

Certain procedure-related forms in this system (i.e., Move Control Authorizations and PE-Ci and FGE worksheets) are created to print the current procedure identifier for Document Control and Records purposes. To identify the current procedure associated with WICS, enter an identifier into the Procedure field. Upon alteration, any previous identifiers are recorded in the Procedure History field.


5.3 System Announcements


Under the **System Announce** tab, an Administrator can communicate to system users via announcements presented in the Home screen as users enter the system.



| Date | Creator | Announcement Text |
|------------------|-----------|---|
| 8/24/12 9:30 PM | Developer | Version 3.3.1 now active to include new PI parent-to-daughter calculations at 100% versus 1%. Process deletion is now limited to WICS Administrators. New shipping and radiological fields added. |
| 4/4/12 9:45 PM | Developer | Version 3.3 now active to include CPE processing. Changes also include fixes to RCRA counting in processing areas. |
| 5/22/11 9:58 PM | Developer | Version 3.2 is now active. Now direct entry of RCRA and TSCA are limited to entry by AKE, during upload of PE-CI or FGE, or during joining of containers. |
| 11/26/10 6:22 PM | Developer | Version 3.1 is now active, incorporating PCB entry and integration between WICS and AKPKS. |
| 2/7/10 10:49 PM | Developer | WICS version 3.0 is released for TWPC use. This release should provide some speed enhancements and other improvements relating to multiple users and active, multiple move operations. |
| 12/5/09 1:14 PM | Developer | Version 2.09 is released for TWPC use. This release accepts ISOCS, DTC, IQ3, and NDA data including FGE TMU entry. |
| 7/20/09 10:01 AM | Developer | Version 2.08.01 is released for TWPC use with data imported from version 2.07. This system includes changes required for PE-CI_FGE_Entry version 2.2. |
| 7/9/09 2:33 PM | Developer | Version 2.08.01 ready for release upon completion of the testing |
| 6/20/09 4:11 PM | Developer | Version 2.08 is released for TWPC entry and access following QA acceptance. |
| 3/23/09 9:28 PM | Developer | Version 2.07 is released for TWPC entry and access following QA acceptance. |

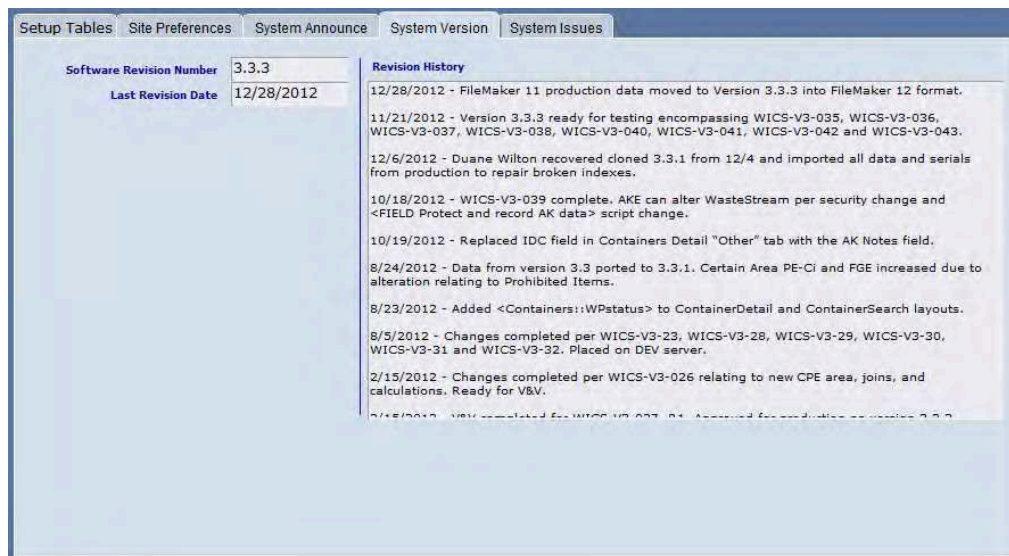
Create New Announcement

To add an announcement, click **Create New Announcement**  button at the bottom of the portal. The system will automatically enter the date, time and Administrator name that created the announcement. Once text is entered, the message is viewable by all WICS users on the Home layout.

Use the vertical scroll bar (right side) to access records outside the portal view. Click the Trash Can  to delete the corresponding System Announcements record.

5.4 System Version

The **System Version** tab holds a running log of the developer's release notes and alterations to track changes of WICS over time. The only Administrators who can make changes are those with developer privileges.



| Software Revision Number | Revision History |
|--------------------------|--|
| 3.3.3 | 12/28/2012 - FileMaker 11 production data moved to Version 3.3.3 into FileMaker 12 format. |
| 12/28/2012 | 11/21/2012 - Version 3.3.3 ready for testing encompassing WICS-V3-035, WICS-V3-036, WICS-V3-037, WICS-V3-038, WICS-V3-040, WICS-V3-041, WICS-V3-042 and WICS-V3-043. |
| | 12/6/2012 - Duane Wilton recovered cloned 3.3.1 from 12/4 and imported all data and serials from production to repair broken indexes. |
| | 10/18/2012 - WICS-V3-039 complete. AKE can alter WasteStream per security change and <FIELD Protect and record AK data> script change. |
| | 10/19/2012 - Replaced IDC field in Containers Detail "Other" tab with the AK Notes field. |
| | 8/24/2012 - Data from version 3.3 ported to 3.3.1. Certain Area PE-CI and FGE increased due to alteration relating to Prohibited Items. |
| | 8/23/2012 - Added <Containers::WPstatus> to ContainerDetail and ContainerSearch layouts. |
| | 8/5/2012 - Changes completed per WICS-V3-23, WICS-V3-28, WICS-V3-29, WICS-V3-30, WICS-V3-31 and WICS-V3-32. Placed on DEV server. |
| | 2/15/2012 - Changes completed per WICS-V3-026 relating to new CPE area, joins, and calculations. Ready for V&V. |
| | 8/15/2012 - V&V completed for WICS-V3-037, 041. Approved for production processing 3.3.3 |

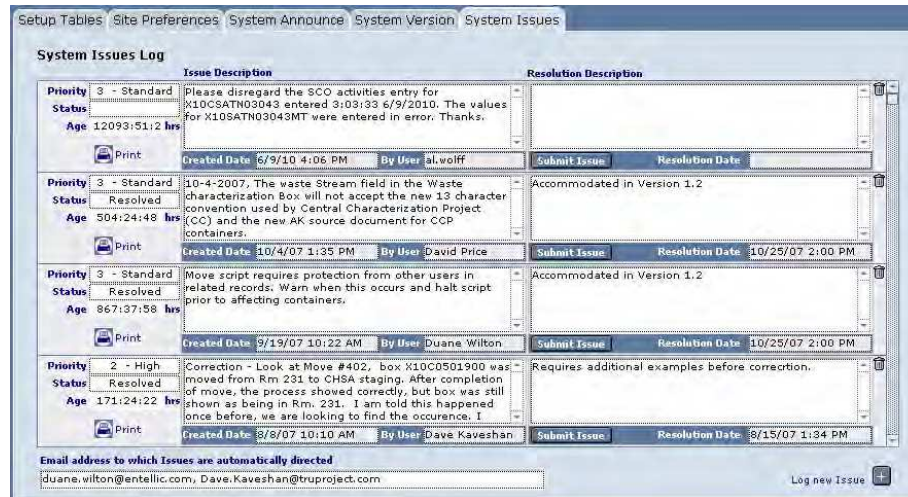
Software Revision Number is used to report the current revision number. The number is reported according to the TWPC's proposed Transuranic Data Management System FileMaker Development Guidelines.

Last Revision Date is used to communicate the date the developer updated the revision information.

Revision History accumulates the software revision history/progression.

5.5 System Issues


The **System Issues** tab displays, in most recent to least recent order, system issues entered by WICS users.



| Priority | Status | Age | Issue Description | Resolution Description | Created Date | By User | Submit Issue | Resolution Date |
|--------------|----------|----------------|---|---|------------------|--------------|--------------|----------------------------------|
| 3 - Standard | Standard | 12093:51:2 hrs | Please disregard the SCO activities entry for X10SATN03043 entered 3:03:33 6/9/2010. The values for X10SATN03043MT were entered in error. Thanks. | | 6/9/10 4:06 PM | al.wolff | Submit Issue | Resolution Date |
| 3 - Standard | Standard | 504:24:48 hrs | 10-4-2007, The waste Stream field in the Waste characterization box will not accept the new 13 character convention used by Central Characterization Project (CC) and the new AK source document for CCP containers. | Accommodated in Version 1.2 | 10/4/07 1:35 PM | David Price | Submit Issue | Resolution Date 10/25/07 2:00 PM |
| 3 - Standard | Resolved | 867:37:58 hrs | Move script requires protection from other users in related records; Warn when this occurs and halt script prior to affecting containers. | Accommodated in Version 1.2 | 9/19/07 10:22 AM | Duane Wilton | Submit Issue | Resolution Date 10/25/07 2:00 PM |
| 2 - High | Resolved | 171:24:22 hrs | Correction - Look at Move #402, box X10C0501900 was moved from Rm 231 to CHSA staging. After completion of move, the process showed correctly, but box was still shown as being in Rm. 231. I am told this happened once before, we are looking to find the occurrence. I | Requires additional examples before correction. | 8/8/07 10:10 AM | Dave Kavesan | Submit Issue | Resolution Date 8/15/07 1:34 PM |

Email address to which Issues are automatically directed
duane.wilton@entellic.com, Dave.Kavesan@truproject.com

Log new Issue

Administrative users can create a new system issue by clicking the **Log new Issue**  button.

Priority - This field provides priority level options and is selected by the user when entering the system issue record. Drop down list choices include:




Status - This field is used to designate current issue status. This field may be typed in or chosen from a drop down list. Drop down list choices include:




Age - This field is automatically calculated by the system based upon the time the issue was opened until the issue is resolved or closed. This field is view only; the user cannot modify it.



Click the Print  button to print the corresponding System Issues record.


Resolution Description and Date – These fields provide developers to communicate to administrators the resolution of a given issue. Entry of the resolution date will automatically change the Status field to “Resolved” and calculate final aging (i.e., Resolution Timestamp minus Creation Timestamp).

Use the vertical scroll bar (right side) to access records outside the portal view. Click the Trash Can  to delete a System Issues record.

Email address to which Issues are automatically directed.

The following field requires at least one working email address. For more than one receiver of WICS issues, separate the email addressed by a comma and a space.



When a new System Issue is created, click **Submit Issue**  button to send an email message containing the date, time and problem description to the email address (or addresses) in this field.

6.0 HOME MENU

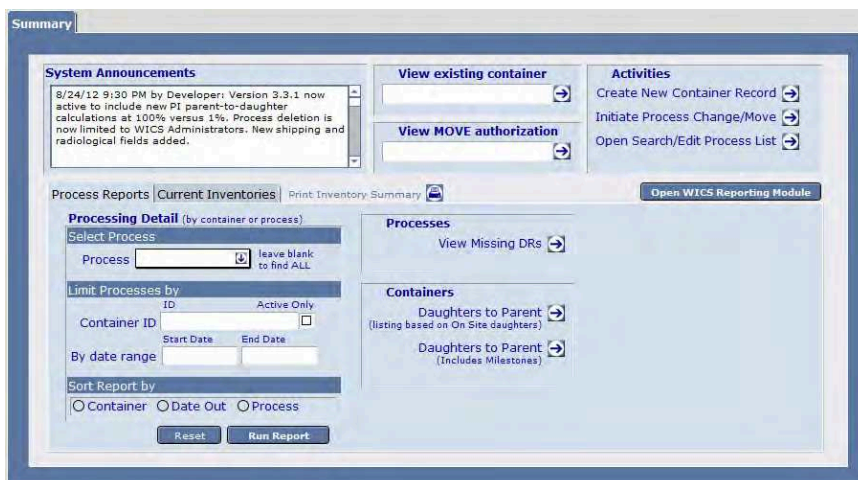
The Home Menu layout is displayed when the Home Menu icon is clicked.




6.1 Summary Features

The Home Menu Summary screen provides the ability to view System Announcements, Current Inventories Summary, and initiate process reports.

This layout also allows users to find existing Containers and MOVE authorizations, Create New Container Records, Initiate a Process Change/Move, and Open Search/Edit Process List.





System Announcements are created by an Administrator to communicate to all users of WICS (see **Section 5.3 System Announce**). Use the vertical scroll bar (right side) to view information outside the portal.

View existing container information by entering a valid container ID (or partial container ID) on this line and then clicking the right arrow .



The system will locate the matching record(s) and display information for a single container in the **Containers Detail View** screen or for multiple containers on the **Containers List View** screen. (See **Section 7.1 Containers - Detail View** or **Section 7.2 Containers - List View** for information on these screens.)



View MOVE authorization by entering a valid MOVE ID on this line and then clicking the right arrow .



The system will locate the corresponding MOVE ID record and display a printable **Container Movement Authorization Form**. For an example, see **Appendix (Forms)**.

The  **Print** button creates a printable **Site Inventory Summary** in a separate window and prompts the user to print the document.

6.1.1 Create New Container Record (Entry Level and Administrator Users)

The  function enables the user to enter a new container record in the system. Click the right arrow  to initiate this function.

This function can also be initiated from the following layouts:

- **Containers, Detail/List - Create New Container**  button
- **GB Activities, Join Containers in Stations – Insert a new container into Outgoing Port/Bay**  button

Create a new container steps:

Follow these steps to create a new container record:

1. To avoid unintended creation of container records, the *Create a new container* prompts the user that a new record will be created and that a valid container ID will be required. The user can cancel the process by selecting the “No, Cancel” button.



2. If the user continues the process, An *ID entry* dialog box is displayed, prompting the user to enter a valid Container ID.




3. A *Confirm ID* dialog verifies the user has entered the correct container ID. If the confirmation ID does not match the original container ID, the user is prompted to re-enter data.
4. If the container ID is unique and correct, a new container record is added and the *Containers, Detail View* screen is displayed to accommodate entry of container characteristics and radiation values (see **Containers, Detail View**).




If a duplicate container ID is entered, the following error dialog appears:






6.1.2 Initiate Process Change/Move (Entry Level and Administrator Users)

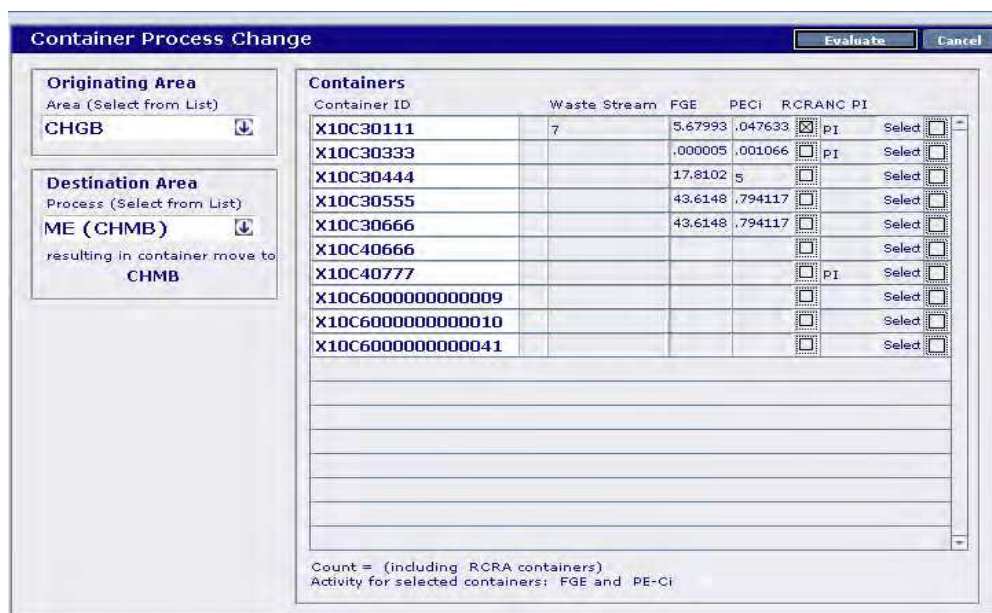
The **Initiate Process Change/Move**  function initiates the *Container Process Change* function. This function enables the user to change the process to which a container is assigned. For a process requiring a container move, a Move ID is also created.

This function can also be initiated from the following screens:

- **Containers, Detail View - Process Change/Move**  button
- **Areas & Moves, Detail View, Containers in Process – Move**  button
- **Areas & Moves, Detail View, Moves – New Move**  button

- **GB Activities**, *Join Containers in Stations and Assign Containers to Stations* – Move  button
- **HotCell Activities**, the Move  button within each HotCell portal (i.e., *Incoming, Outgoing and Outgoing 72-B Cask*).
- **CPE Activities**, *Join Containers in Stations and Assign Containers to Stations* – Move  button.

Container moves cannot be accomplished apart from a process change. The process to which a container is assigned determines whether a move is required. Some processes do not require a move but all container moves require a process change.




| Container ID | Waste Stream | FGE | PECi | RCRANC | PI | |
|-------------------|--------------|---------|---------|-------------------------------------|----|----------|
| X10C30111 | 7 | 5.67993 | .047633 | <input checked="" type="checkbox"/> | PI | Selected |
| X10C30333 | | .000005 | .001066 | <input type="checkbox"/> | PI | Selected |
| X10C30444 | | 17.8102 | 5 | <input type="checkbox"/> | | Selected |
| X10C30555 | | 43.6148 | .794117 | <input type="checkbox"/> | | Selected |
| X10C30666 | | 43.6148 | .794117 | <input type="checkbox"/> | | Selected |
| X10C40666 | | | | <input type="checkbox"/> | | Selected |
| X10C40777 | | | | <input type="checkbox"/> | PI | Selected |
| X10C6000000000009 | | | | <input type="checkbox"/> | | Selected |
| X10C6000000000010 | | | | <input type="checkbox"/> | | Selected |
| X10C6000000000041 | | | | <input type="checkbox"/> | | Selected |

Count = (including RCRA containers)
Activity for selected containers: FGE and PE-Ci


The **Originating Area** field selection provides a drop-down list of available areas/processes from which the container(s) originate.


The **Destination Area** field selection provides a drop-down list of available processes and their associated area to which the container(s) may be changed or moved.


The **Containers** section provides the list of containers selected for the chosen process change or move. The lower portion of the screen indicates whether a move authorization is required for a proposed change accompanied by a move. Prior to evaluation, Containers within the originating area can be added by checking a checkbox in the container row.


After selection of containers is complete, click the **Evaluate**  button to display the full Container Process Change screen.

Upon evaluation, WICS will determine if the move requires crossing an ICA boundary. If so, provisional counts and activities will be displayed.

Upon evaluation, **Containers** can still be added by clicking the **Add Containers to Process/Move**  button. Based upon the containers selected, the lower section of the screen will provide guidance with alerts or messages related to this process change/move.

Clicking the **Cancel**  button at any time within this function returns the user to the Home screen without making any changes.


Use the vertical scroll bar (right side) to access records outside the portal view. Click the Trash Can  to remove a Container from this list. **This does not delete container records from the system.** This list is only used to select containers for a process change/move within this function.

Upon evaluation of the full screen, clicking the **Complete Process/Container Selection**  button applies the process change to the Containers in this list.

Container Process Change steps:


Follow these steps for a Container Process Change:

1. Originating Area

The **Originating Area** field selection provides a drop-down list of available areas/processes from which the container(s) originate. Click the down arrow  button to view the available choices. To select, click on the area from which the container(s) will be processed or moved. Once selected, the available container choices for this process change or move will be limited those already located in this originating area.

Originating Area
Area (Select from List)

2. Destination Area

The **Destination Area** field selection provides a drop-down list of available areas/processes to which the container(s) may be changed or moved. Click the down arrow  button to view the available choices. To select, click on the area/process being applied to the container(s) or the area to which the container(s) will be moved.

Destination Area
Process (Select from List)

3. Select Container(s) to Process/Move

Once the Originating Area is selected, containers in that area are displayed in the portal.

[illegible]

The **Select** ☐ box enables user to select available containers from the Originating Area to the move batch. Additional containers may be added by clicking the **Select** box next to each container desired. Clicking the **Select** box again can be used to de-select.

Use the vertical scroll bar (right side) to view containers outside the portal.

4. Evaluate Move Criteria

When all the containers desired have been selected, the Evaluate button is used to calculate provisional move values for the destination area. Under certain conditions, the system will inform the user that no Move Authorization is required to complete the move.



| Containers | Count = 3 (including 1 RCRA containers) | Waste Stream | FGE | PECI | RCRANC | PI |
|------------|---|--------------|---------|---------|-------------------------------------|----|
| X10C30111 | | 7 | 5.67993 | 0.04763 | <input checked="" type="checkbox"/> | PI |
| X10C30333 | | | 0.00000 | 0.00106 | <input type="checkbox"/> | PI |
| X10C30444 | | | 17.8102 | 5 | <input type="checkbox"/> | |

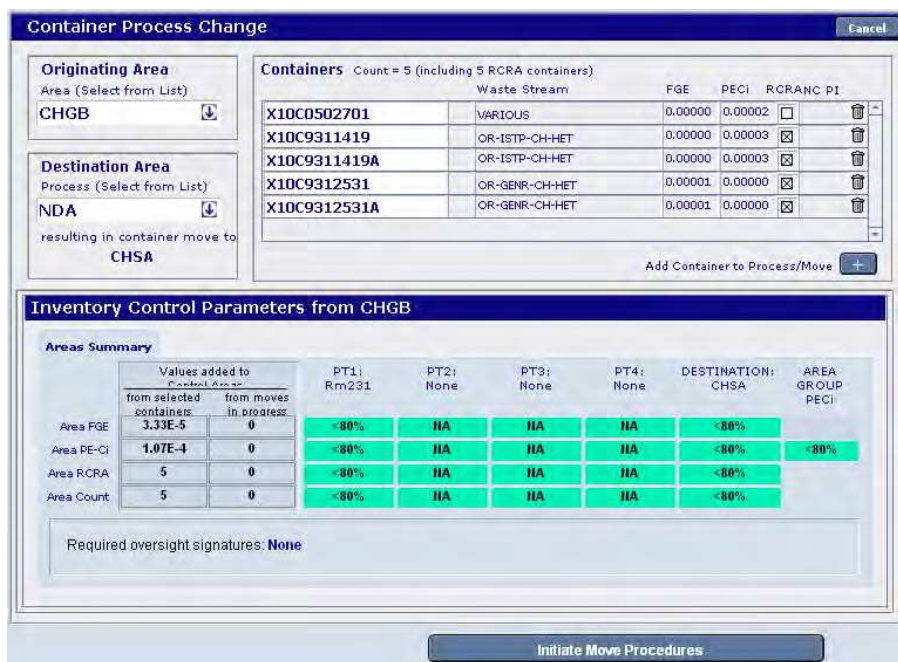
When a process change does not involve crossing an ICA boundary, as defined within the Move/Passthrough settings in Setup/Preferences layout, the destination process will be immediately written to WICS. The container will now reflect this new process in its process history. In addition, the Date Out of the container's previous process will reflect the date of the new process change.

When a process change matches a Move/Passthrough setting designated as a "Ship Offsite" move type, the user will be informed that such a process change will remove the container from Site activity and from its associated ICA.



By answering YES to this prompt, the container's previous process *Date Out* is altered, the *Ship Date* for the container is written and the container is removed from the ICA.

When a process change for any container requires a move across ICAs, additional information will display in the lower panel of the window. These parameters project the effects of FGE values, PE-Ci values, RCRA and container counts against the existing inventory of destination and pass-through areas.



Container Process Change

Originating Area
Area (Select from List)
CHGB

Destination Area
Process (Select from List)
NDA
resulting in container move to
CHSA

Containers Count = 5 (including 5 RCRA containers)

| Container | Waste Stream | FGE | PECI | RCRANC | PI |
|--------------|----------------|---------|---------|-------------------------------------|--------------------------|
| X10C0502701 | VARIOUS | 0.00000 | 0.00002 | <input type="checkbox"/> | <input type="checkbox"/> |
| X10C9311419 | OR-ISTP-CH-HET | 0.00000 | 0.00003 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| X10C9311419A | OR-ISTP-CH-HET | 0.00000 | 0.00003 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| X10C9312531 | OR-GENR-CH-HET | 0.00001 | 0.00000 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| X10C9312531A | OR-GENR-CH-HET | 0.00001 | 0.00000 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Add Container to Process/Move +

Inventory Control Parameters from CHGB

Areas Summary

| | Values added to Control Area | | PT1: Rm231 | PT2: None | PT3: None | PT4: None | DESTINATION: CHSA | AREA GROUP PECI |
|------------|------------------------------|--------------------------|---------------|--------------|--------------|--------------|----------------------|-----------------------|
| | from selected containers | from moves in process | | | | | | |
| Area FGE | 3.33E-5 | 0 | <80% | HA | HA | HA | <80% | |
| Area PE-Ci | 1.07E-4 | 0 | <80% | HA | HA | HA | <80% | <80% |
| Area RCRA | 5 | 0 | <80% | HA | HA | HA | <80% | |
| Area Count | 5 | 0 | <80% | HA | HA | HA | <80% | |

Required oversight signatures: None

Initiate Move Procedures

Qualified users must evaluate these provisional values to assure compliance with TWPC standards. To assist this evaluation, the System will display the status of ICA limits in terms of their thresholds. When any ICA projected limits are less than 80 percent, the system provides a “<80%” label displayed over a green cell. When projected ICA limits match or exceed 80 percent, the label changes, accordingly, and the cell changes to yellow. And, upon projected limits calculate to 90 percent, the cell changes to orange, then to red when limits match or exceed 100 percent.

The system will also prompt the user to any required signatures based on projected inventory control limits. When 80 percent of more of the destination area is projected, the system will prompt for oversight by the Operations Manager. When 90 percent of the destination ICA is met or exceeded, the system prompts for oversight by both the Operations Manager and the Director of Facility Management.

5. Complete Process Change/Initiate Move Procedures


After evaluating the process change, the user can proceed by clicking the **Complete Process Change** button or the **Initiate Move Procedures** button, as applicable.

When a Move Authorization is required, the process status for the effected containers will change to “Move awaiting Sig”. Immediately, one of two available Move Authorization forms will be displayed, allowing the user to manage the move authorization.


For additional information regarding Move Authorization processing, see the Appendix, **Container Move Authorization Forms**, and **8.1.3.3 Container Movement Authorization Form** in this manual.

NOTE: All container values remain in origin area and are not added to the destination area until after the move process is complete.

NOTE: Completing a process change or move will alter the *Date Out* for the last process of the associated container to the same day as the new process's *Date In*.

Clicking the **Cancel**  button within this function returns the user to the Home screen without making any changes.


6.1.3 Open Search/Edit Process List (Entry Level and Administrator Users)

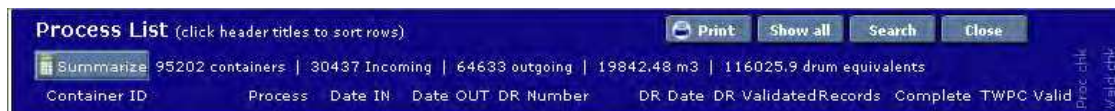
The  button opens a new window to allow users to explore current and historical processes.









| Container ID | Process | Date IN | Date OUT | DR Number | DR Date | DR ValidatedRecords | Complete | TWPC Valid | Valid chk |
|---|---------|----------|----------|-----------|---------|---------------------|----------|------------|-----------|
| X10C0501628 | Repack | 04/24/07 | 04/24/07 | | | | 09/30/07 | | |
| ContainerType: DRUM55 I/O Vol: 0346 WasteType: LLW Proc ID: 070424552661 MoveID: Ship: 04/23/07 | | | | | | | | | |
| Notes: Omit | | | | | | | | | |
| X10C0501740 | | 04/25/07 | 03/27/07 | | | | 09/30/07 | | |
| ContainerType: DRUM55 I/O Vol: 21 WasteType: Proc ID: 070425572645 MoveID: Ship: 04/25/07 | | | | | | | | | |
| Notes: Repacked 4-9-07 Omit | | | | | | | | | |
| X10C0501473 | Repack | 04/25/07 | 04/25/07 | | | | 09/30/07 | | |
| ContainerType: DRUM55 I/O Vol: 4112 WasteType: LLW Proc ID: 070425582481 MoveID: Ship: 04/25/07 | | | | | | | | | |
| Notes: Omit | | | | | | | | | |
| X10C0501537 | Repack | 04/25/07 | 10/17/06 | | | | 09/30/07 | | |
| ContainerType: DRUM55 I/O Vol: 1278 WasteType: LLW Proc ID: 070425582481 MoveID: Ship: 04/25/07 | | | | | | | | | |
| Notes: Omit | | | | | | | | | |
| X10C0501828 | S-CHSA | 04/26/07 | 04/26/07 | | | | 09/30/07 | 01/17/13 | |
| ContainerType: DRUM55 I/O Vol: 1278 WasteType: LLW Proc ID: 070426339691 MoveID: Ship: 12/17/12 | | | | | | | | | |
| Notes: Omit | | | | | | | | | |


Clicking on the header rows of the Process List window will sort the list according to that row's values. Users can navigate the list by using the window's scroll bar or by using FileMaker's Rolodex-style navigator in the window's status area on the top of the screen.

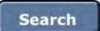
The **Summarize**  button displays a summary of values for the current found set.



| Container ID | Process | Date IN | Date OUT | DR Number | DR Date | DR ValidatedRecords | Complete | TWPC Valid | Valid chk |
|---|---------|---------|----------|-----------|---------|---------------------|----------|------------|-----------|
| Process List (click header titles to sort rows)     | | | | | | | | | |
|  95202 containers 30437 Incoming 64633 outgoing 19842.48 m3 116025.9 drum equivalents | | | | | | | | | |

The Process List Window allows users to print the found set of results by clicking the **Print**  button. The user is prompted to sort by Container (with related processes nested below each container record), *Date Out* (with containers and their related process nested below each *Date Out* line) or *Process* (with related containers nested below each process line). Examples of each style of report are included in the APPENDIX within this document.

The **Show All**  button enables users to view all processes within WICS.

The Process List window also offers the user a **Search**  button to search for specific process records, thus expanding or narrowing the list. Understanding FileMaker's built-in "Find Mode" capabilities is necessary to fully utilize this function.

6.2 Process Reports

Two methods of process reporting exist in WICS, both of which are accessible from the **Process Reports** tab on the Home layout. Processing Detail will output container

processes based on user-entered parameters. For more extensive reporting including Process Summaries, Milestones, and Earned Value Management (EVM) milestones click the **Open WICS Reporting Module** button to open the TWPC Reporting module.



6.2.1 Processing Detail

Users can enter parameters to report on process details from container processing activities in the system. Entry of these parameters limits the found set of records listed on the resulting report.



Users can enter limiters by Process Type (selectable from a dropdown list), Container ID, or Date Range (selectable from a dropdown calendar within Start Date and End Date fields).

Based on the same report options as discussed in Section 6.1.3, the process list can be summarized in three ways: by *Container*, by *Date Out*, and by *Process*. Processes can be summarized two ways: First, and by default, processes are nested beneath the Container ID to which they are related.

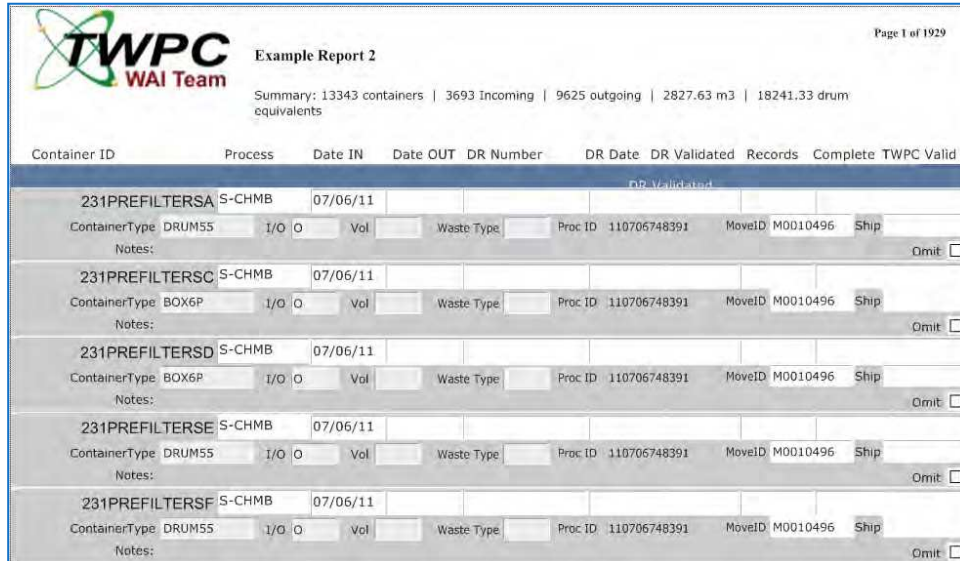


Example Report

Summary: 13343 containers | 3693 Incoming | 9625 outgoing | 2827.63 m3 | 18241.33 drum equivalents

| Container ID | Process | Date IN | Date OUT | DR Number | DR Date | DR Validated | Records | Complete | TWPC Valid |
|--------------------------------|---------|---------|----------|-----------|------------|--------------|--------------|----------|---------------|
| 231PREFILTERSA | | | | | | | | | |
| S-231 06/24/11 06/27/11 | | | | | | | | | |
| ContainerType | DRUM55 | I/O | O | Vol | Waste Type | Proc ID | 110624378171 | MoveID | M0010332 Ship |
| Notes: | | | | | | | | | |
| S-SSA 06/27/11 07/06/11 | | | | | | | | | |
| ContainerType | DRUM55 | I/O | O | Vol | Waste Type | Proc ID | 110627372811 | MoveID | M0010348 Ship |
| Notes: | | | | | | | | | |
| S-CHMB 07/06/11 | | | | | | | | | |
| ContainerType | DRUM55 | I/O | O | Vol | Waste Type | Proc ID | 110706748391 | MoveID | M0010496 Ship |
| Notes: | | | | | | | | | |
| 231PREFILTERSC | | | | | | | | | |
| S-SSA 06/23/11 07/06/11 | | | | | | | | | |
| ContainerType | BOX6P | I/O | O | Vol | Waste Type | Proc ID | 110623768951 | MoveID | M0010318 Ship |
| Notes: | | | | | | | | | |
| S-CHMB 07/06/11 | | | | | | | | | |
| ContainerType | BOX6P | I/O | O | Vol | Waste Type | Proc ID | 110706748391 | MoveID | M0010496 Ship |
| Notes: | | | | | | | | | |



Or, containers and processes can be nested beneath the *Date Out* (i.e., the date the process was completed). Check boxes are provided to allow the user to designate their sub-summary preference.



Example Report 2

Summary: 13343 containers | 3693 Incoming | 9625 outgoing | 2827.63 m3 | 18241.33 drum equivalents

| Container ID | Process | Date IN | Date OUT | DR Number | DR Date | DR Validated | Records | Complete | TWPC Valid |
|---------------------------------------|---------|---------|----------|-----------|------------|--------------|--------------|----------|---------------|
| 231PREFILTERSA S-CHMB 07/06/11 | | | | | | | | | |
| ContainerType | DRUM55 | I/O | O | Vol | Waste Type | Proc ID | 110706748391 | MoveID | M0010496 Ship |
| Notes: | | | | | | | | | |
| 231PREFILTERSC S-CHMB 07/06/11 | | | | | | | | | |
| ContainerType | BOX6P | I/O | O | Vol | Waste Type | Proc ID | 110706748391 | MoveID | M0010496 Ship |
| Notes: | | | | | | | | | |
| 231PREFILTERSD S-CHMB 07/06/11 | | | | | | | | | |
| ContainerType | BOX6P | I/O | O | Vol | Waste Type | Proc ID | 110706748391 | MoveID | M0010496 Ship |
| Notes: | | | | | | | | | |
| 231PREFILTERSE S-CHMB 07/06/11 | | | | | | | | | |
| ContainerType | DRUM55 | I/O | O | Vol | Waste Type | Proc ID | 110706748391 | MoveID | M0010496 Ship |
| Notes: | | | | | | | | | |
| 231PREFILTERSF S-CHMB 07/06/11 | | | | | | | | | |
| ContainerType | DRUM55 | I/O | O | Vol | Waste Type | Proc ID | 110706748391 | MoveID | M0010496 Ship |
| Notes: | | | | | | | | | |

Upon entering these parameters, a “Run Report”  button initiates a script to list container processes matching that criteria. To clear previously entered parameters, a “Reset”  button is provided.

Upon running the report, the user can preview the results on their display. By clicking a “Continue” button on the left side of the window the user is prompted to print or PDF the report. PDF documents will be stored in user’s “My Documents” folder on the workstation from which the report was initiated.

6.2.2 View Missing DRs (Processes)

The *View Missing DRs* button initiates a script to locate processes



that require a DR but have no DR number in the appropriate field. The resulting pop-up window allows qualified users to quickly isolate and enter DR numbers and other process related dates.



| Container ID | Process | Date IN | Date OUT | DR Number | DR Date | DR Validated | Records | Complete | TWPC Valid | Ship |
|--------------|---------|----------|----------|-----------|---------|--------------|---------|----------|------------|----------|
| X10C0501425 | VET | 04/26/07 | 04/26/07 | | | | | | | 09/30/07 |
| X10C0501428 | VET | 04/26/07 | 05/22/06 | | | | | | | 09/30/07 |
| X10C0501483 | VET | 04/26/07 | 07/13/06 | | | | | | | 09/30/07 |
| X10C0501435 | VET | 04/26/07 | 04/26/07 | | | | | | | 09/30/07 |
| X10C0501441 | VET | 04/26/07 | 06/01/06 | | | | | | | 09/30/07 |

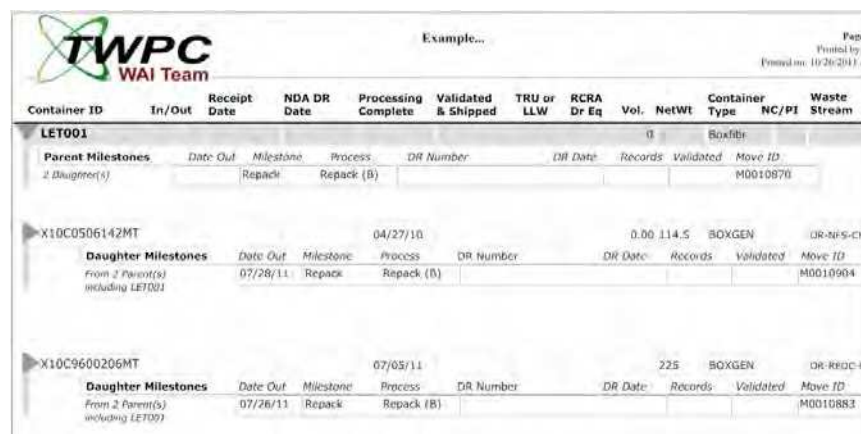
Upon viewing processes, printing and sorting options are available as described in Section 6.1.3 in this document

6.2.3 Daughters to Parent (Containers)

Two *Daughters to Parent* buttons initiate scripts to locate daughter containers currently onsite at TWPC and each container's related Parent. Clicking the first *Daughters to Parent* button provides a simple list sorting parent container(s) by ID and nesting each parent's daughter container beneath it.



By clicking the second *Daughters to Parent* button, the same list of containers includes all milestone processes nested below each container. An example of the printout of this report is shown below:



| Container ID | In/Out | Receipt Date | NDA DR Date | Processing Complete | Validated & Shipped | TRU or LLW | RCRA Dr Eq | Vol. | NetWt | Container Type | NC/PI | Waste Stream |
|-----------------------------------|--------|--------------|-------------|---------------------|---------------------|------------|------------|------|-------|----------------|-------|--------------|
| LET001 | | | | | | | | 0 | | BOXFIB | | |
| Parent Milestones | | | | | | | | | | | | |
| 2 Daughter(s) | | | | | | | | | | | | |
| X10C0506142MT | | | 04/27/10 | | | | | 0.00 | 114.5 | BOXGEN | | DR-NFS-CH |
| Daughter Milestones | | | | | | | | | | | | |
| From 2 Parent(s) including LET001 | | | | | | | | | | | | |
| | | 07/28/11 | Repack | Repack (B) | | | | | | | | M0010904 |
| X10C9600206MT | | | 07/03/11 | | | | | 225 | | BOXGEN | | DR-REDC-40 |
| Daughter Milestones | | | | | | | | | | | | |
| From 2 Parent(s) including LET001 | | | | | | | | | | | | |
| | | 07/28/11 | Repack | Repack (B) | | | | | | | | M0010883 |



6.3 Current Inventories

NOTE: Clicking the Current Inventories tab initiates system-wide calculations and may take a minute or more to complete.

Current Inventories summarizes container details for each of the work areas including Group FGE Summary for area groups. For each location, Container count/limit, RCRA count/limit, PE-Ci values/limit, FGE values/limit and Group FGE Summary values are displayed. Use the vertical scroll bar (right side) to access records outside the portal view.

| Process Reports Current Inventories Print Inventory Summary | | | | | | | | | | |
|---|-----------|-------|-------|-------|---------|-------|---------|-------|---------------------|----------------|
| Location | Container | | RCRA | | PE-Ci | | FGE | | Group PE-Ci Summary | |
| | Count | Limit | Count | Limit | Values | Limit | Values | Limit | Group Name | Values Limit |
| 1stFlr | | 99999 | | 100 | | 2500 | | 99999 | Rm231 | 2500 |
| BBA | 1 | 99999 | | 45 | | 340 | | 200 | Rm231 | 2500 |
| CHGB | 3 | 99999 | 4.5 | 10 | .000067 | 340 | .000016 | 200 | Rm231 | 2500 |
| CHMB | 1299 | 99999 | ? | 2144 | 1208.37 | 2500 | 4609.91 | 99999 | | |
| CHSA | 315 | 99999 | 286.1 | 400 | 577.496 | 2500 | 1966.83 | 99999 | CHSA | 821.37913 2500 |
| CraneBay | 56 | 99999 | 47.4 | 50 | .398184 | 2500 | 1.32325 | 99999 | DAC | 2500 |
| DAC | 664 | 99999 | 498.0 | 626 | 391.458 | 2500 | 929.861 | 99999 | DAC | 392.33316 2500 |
| DOE | | 99999 | | 99999 | | 99999 | | 99999 | | |
| DVB | 2 | 99999 | 3.0 | 24 | .4769 | 2500 | 5.51303 | 99999 | DAC | 2500 |
| DVS | | 99999 | | 99999 | | 130 | | 99999 | DAC | 2500 |

By clicking the small arrow button the right side of an Area row, the user can access the Area's layout for detailed container and process information.


Print Inventory Summary  enables the user to print the Current Inventories summary information. Clicking the printer  button initiates a standard print dialog box.

7.0 CONTAINERS


WICS provides a comprehensive interface for container information. This layout is accessible from anywhere in the system by clicking the **Containers** menu icon. Users can view Container Records in either **Detail View** or **List View** by clicking the relevant tab below the menu function bar. Both views display a unique Container ID that follows TWPC container naming conventions for each record.

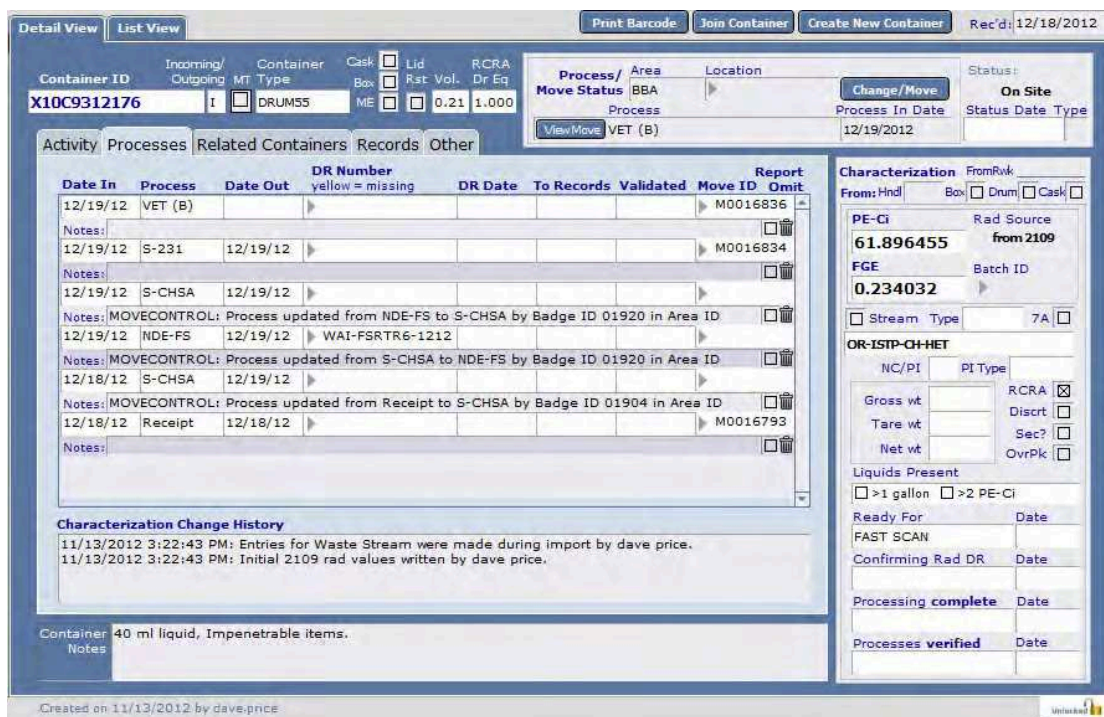


Create New Container (Entry Level and Administrator Users)

The **Create New Container**  button is available in both the **Detail View** and **List View** screens. Refer to Section 6.1.1, Create New Container Record, for detailed instructions.

7.1 Containers (Detail View)

The **Containers Detail View** tab provides a detailed description of a container. The user may navigate through all container records using the table navigation buttons or by scrolling with a wheel  [PW1].



A detailed printout of the currently selected container is initiated by clicking the Print button on the Container Detail function bar. An example of this printout can be located in the **Appendix** of this document.

Administrative and Entry users enter the date of a container's receipt into the *Received date* field within the Containers **Detail** layout. This field is entered by WICS automatically upon completion of any move in which the Move/Pass-through setting type is selected as "Transfer to WPF".

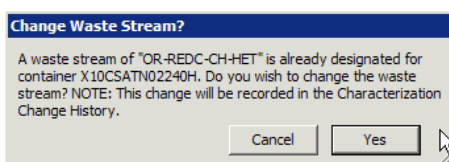
A *Container Notes* field is available beneath the tabbed blocks in Container detail view. This field allows entry of *ad hoc* information about the associated container. The field can be scrolled when its contents exceed its available displayed space.

For a display of container records in list form, click the **List View** tab.

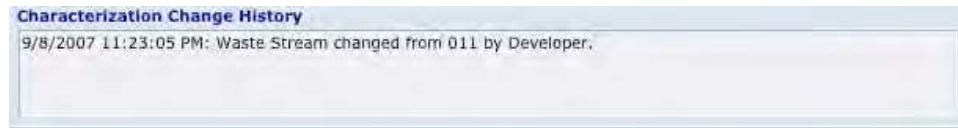
WARNING: Changes to field values on this screen will be incorporated into the container record. Changes are permitted to update the container record but must be entered with care by Entry Level or Administrators only. Utilize the **Create New Container** function if a new container record is required.

7.1.1 Detail View components


Changes to many Container Detail layout fields are documented within an audit log. When a user clicks into a field, he or she is notified of this feature and may opt out of making a change.



Clicking *No* leaves the record unchanged. Clicking *Yes* records the change in the Characterization Change History audit log, viewable within the Container's process tab, and places the cursor into the field to enable entry.




7.1.1.1 Print Barcode (Entry Level and Administrator Users)

The "Print Barcode"  button initiates the *Print Label* function, enabling the user to change the print large barcode labels, small barcode labels or both for the selected container. The following dialog provides these options:

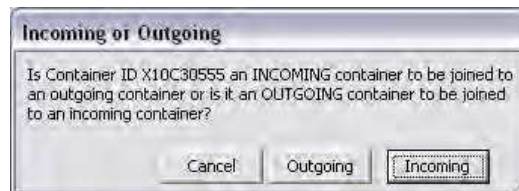


Upon user selection, the labels are automatically printed without a print dialog box. Printer setting must be correctly configured on the local workstation prior to initiating this function to obtain expected results.

7.1.1.2 Join Container (Entry Level and Administrator Users)


The Join Container  button initiates the *Join Source Containers within Areas* script.

When a container is no longer in a TWPC ICA, the system will prompt the user to indicate if the selected container is an outgoing daughter or an incoming parent.




Based on that selection, the process continues as a "manual join" discussed later in this section.


When the selected container is assigned to an Area, the following screen allows the user to select that Area's Incoming Containers to join (by clicking in the "Mark for Join" box).

To create an outgoing daughter container in the area, click the *Add a new outgoing container to Area*  button. After creating the container, it displays within the *Outgoing* portal, ready to mark for joining.

When all *Incoming* and *Outgoing* containers are marked for joining, the **Join Selected Containers** button completes the join process. Isotopic values are updated throughout the system and the joined containers are assigned to that join Area, as applicable.

When a user clicks the *Manual Join*  button in the Join Source Container window, a popup window directs the user to enter the parent and daughter containers.

Click *OK* after entering incoming and outgoing container IDs. The system verifies that duplicate joins cannot take place and verifies that an outgoing container, as a parent, cannot be joined to an incoming container, as a daughter.

Clicking the *Cancel*  button at any time within this function returns the user to the Area screen without making any changes.

7.1.1.3 Process/Move Status

In the Process/Move Status section, the container's **Area**, **Location**, **Current Process Status**, and **Process In Date** are displayed. **Process Change/Move** and **View Move** functions are also available here:

| | | | | |
|-------------------------|--------------------|-----------------------------|------------------|--------------------|
| Process/ Move Status | Area CPE | Location | Change/Move | Status: On Site |
| View Move | Process VET-CPE | Process In Date 2/7/2013 | Status Date Type | |


Location (Entry Level and Administrator Users)

When a container is moved to an area that has established locations (See section 7.3 in this manual), it can be assigned to a location by selecting the available location from a dropdown list in the Location field.


Boxes may be located in more than one concurrent location cell. To select more than one location, the user must use the Control key.

When a container includes a location that is not assigned to the current container area, the location field will highlight in yellow.

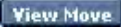
| |
|-------------|
| Location |
| AR0014-B-02 |
| AR0014-A-01 |
| AR0014-A-02 |
| AR0014-A-04 |
| AR0014-A-05 |
| AR0014-A-06 |
| AR0014-A-07 |
| AR0014-A-08 |
| AR0014-A-09 |
| AR0014-A-10 |
| AR0014-B-01 |
| AR0014-B-02 |
| AR0014-B-04 |
| AR0014-B-05 |

Clicking the arrow  button within the location field pops up a window displaying all containers within the same location.

Process Change/Move (Entry Level and Administrator Users)

The Change/Move  button initiates the *Container Process Change* function, enabling the user to change the process for a container. When a container process requires a move, a Move ID is automatically created based on the System's Move-pass-through settings (See **Section 5.1.3 Move/Pass-through Settings** for additional details).

Refer to **Section 6.1.2 Initiate Process Change/Move** for detailed instructions on this Process Change and Move descriptions.

View Move  button displays container movement information for the currently selected container. If there is no move related to the currently selected container, the following message will be displayed:

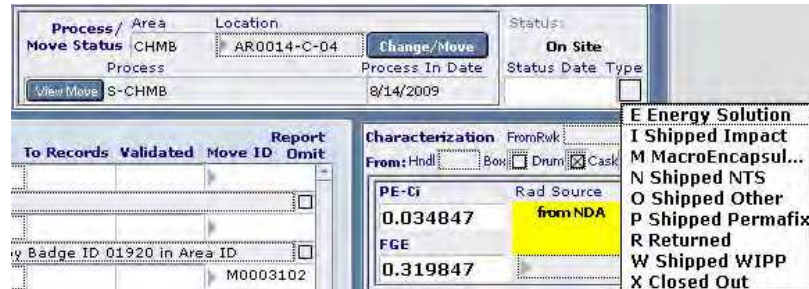
| |
|---|
| <p>No related Move</p> <p>This process includes NO related Move.</p> <p>OK</p> |
|---|

7.1.1.4 Status (shipped)

Clicking on the **Status Date** field initiates a script to remove the container from its current area and mark it as "Shipped." The script ends to allow the user to enter a date via a drop down calendar. The following warning dialog confirms this action:



Clicking on the Ship **Type** checkbox initiates a sequence to document a transfer code for the container, removing it from all Area inventories and dating it, accordingly.



The main application window displays container information. The top section includes fields for Process/Area, Location, Move Status, and Process. Below this is a table with columns: To Records, Validated, Move ID, and Omit. The bottom section is titled "Characterization" and includes a "From Rvk" dropdown, a "From:" field with "Hndi" selected, and a "Rad Source" field with "from NDA" selected. To the right of the characterization section is a list of status codes: E Energy Solution, I Shipped Impact, M MacroEncapsul..., N Shipped NTS, O Shipped Other, P Shipped Permafrix, R Returned, W Shipped WIPP, and X Closed Out.

Based on the entered Transfer Type code, the **Status** label changes from *On Site* to either *Shipped* or *Closed Out*.

7.1.1.5 Container header

The container header includes the **Container ID**, **Incoming/Outgoing** status, **MT** indicator (identifying an empty container), **Container Type**, **Cask**, **Box**, or **ME** (Macro-encapsulation) indicator, **Lid Restraint**, **Volume** and **RCRA Dr Eq** (Drum Equivalent). Each of these must be carefully entered upon container creation to assure accurate TWPC reporting.



A form for container header information. It includes fields for Container ID, Incoming/Outgoing status, Container MT Type, Cask, Box, ME, Lid Rst, Vol., and RCRA Dr Eq. The values entered are: Container ID: X10C0506017, Incoming/Outgoing: I, Container MT Type: DRUM55, Cask: ME, Lid Rst: .21, and RCRA Dr Eq: 1.000.

7.1.1.6 Characterization Panel

The fields in the **Characterization** panel on the right side of the screen apply to the currently selected container record.

At the top of the characterization panel are “From” fields. Information in these fields are derived parent container records.. “From” fields include **FromRwk** (rework code from the parent record), **Hndl** (handling code from parent), **Box**, **Drum**, or **Cask** (the original container type from which waste derived).

The **PE-Ci** and **FGE** fields calculate automatically and cannot be directly modified. These calculations generate from Rad Activity entries and from joined parent activity.

PE-Ci and FGE fields highlight in yellow when the container is >80 PE-Ci or >50 FGE.

The **Rad Source** label displays the source of the characterized PE-Ci and/or FGE. Sources may display as *From Parent*, *From 2109*, *From NDA*, *From ISOCS*, *From IQ3*, *From DTC*, *From SCO*, or *None*.

The container’s **Batch ID** is typically assigned during join processes in the CHGB or BBA. To view all containers assigned to a batch, the user can click the arrow button to the left of the Batch ID (see Section 9.2 in this document).

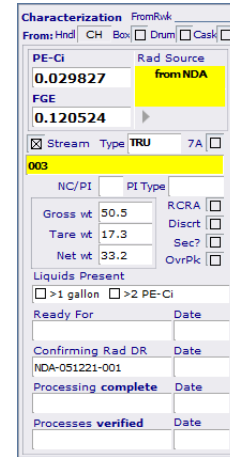
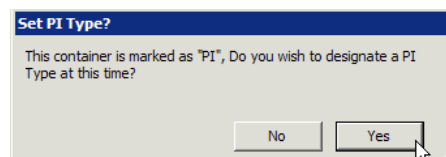
The **Type** field designates the Waste Type, either Low Level Waste (LLW) or Transuranic Waste (TRU), selectable from a dropdown list.

When checked, the **7A** checkbox indicates the container is compliant with specific Department of Transportation shipping requirements.

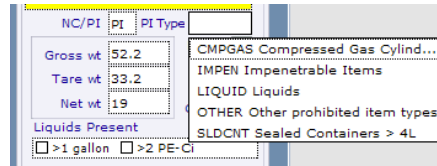
The **Stream** (Waste Stream) field associates the characterized waste to a specific Waste Stream assigned by the AKE. Select a Waste Stream from a dropdown list. When a Waste Stream entered in the Characterization panel does not match the Waste Stream entered into AKPKS, the field highlights in a red color.

The **check box** to the left of the **Stream** label indicates the current characterization is based on a Waste Stream designation that may be superseded by a different Waste Stream. Therefore, the container should not be shipped until the check box is disabled by Waste Programs personnel based on Waste Stream alteration or review.

Edit the **NC/PI** field by selecting NC (non-conforming waste or container) or PI (Prohibited Item) from a dropdown list. If PI is selected, the system prompts the user to enter a **PI Type**.

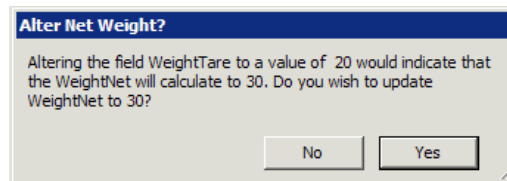



Clicking *No* bypasses the PI Type field. Clicking *Yes* pops up a PI Type dropdown list to enable selection.



The screenshot shows a form with fields for NC/PI, PI, and PI Type. The PI Type dropdown menu is open, displaying a list of options: CMPGAS Compressed Gas Cylind..., IMPEN Impenetrable Items, LIQUID Liquids, OTHER Other prohibited item types, and SLDCNT Sealed Containers > 4L. Below the dropdown, there are checkboxes for Liquids Present, with options for >1 gallon and >2 PE-CI.

Weight entries include **Gross weight**, **Tare weight** and **Net weight**. Enter weights in kilograms. Upon entering Gross and Tare weights, the system will ask the user if the resulting Net weight should be entered.



The screenshot shows a dialog box titled 'Alter Net Weight?'. The text inside reads: 'Altering the field WeightTare to a value of 20 would indicate that the WeightNet will calculate to 30. Do you wish to update WeightNet to 30?'. There are two buttons at the bottom: 'No' and 'Yes'.

Clicking *No* leaves the Net weight unchanged. Clicking *Yes* automatically enters the Net weight.

The **RCRA** checkbox indicates that the container waste must be managed according to RCRA state and federal requirements. This checkbox may be automatically checked based on related AKPKS and Waste Stream records.

The **Discret** (Discrete) indicator designates the container to include isolated RCRA items independent of Waste Stream RCRA designation.

Clicking the **Sec?** designation assigns the waste in the container as *Secondary* waste, generated from processing activities.


The **OvrPk** designator identifies the container as an *Overpack* that contains another container inside.


When liquids are present in the container waste, the user should enter a check into the appropriate **Liquids Present** checkboxes.

The **Ready For** field and **Date** allow Inventory Control personnel to select or enter the operational status of the container. This information is used in queries and reports specific to TWPC Waste Operations, assisting in selection of containers for specific processing.

Waste Programs personnel update **Confirming Rad DR** (data reports) and **Date** to communicate the assay reports associated to the container. This information is required to assure radiological activity and isotopic distributions are properly associated with the container waste.

Processing complete and **Processes verified** dates are entered or modified only by qualified users (whose account name is recorded next to the date) and saved into the container record. These fields are used for TWPC earned value reporting and must be carefully managed.

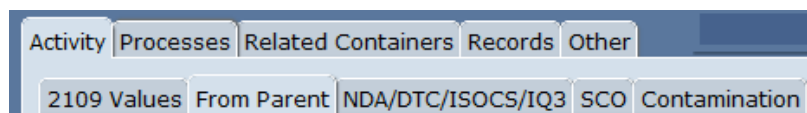
When a date is entered into the Processes verified date field, the record will change to a “locked” status as indicated by a small icon  on the bottom of the record. Upon locking a record, certain characterization fields cannot be edited. Qualified users can unlock the record by clicking on the lock icon. A dialog box will prompt the user to enter a reason for unlocking the record and document the change in the process history.

Upon completing this process, the icon changes to reflect the  unlocked status.

NOTE: Values entered become a permanent part of the container record. Modifications must be made carefully. Each waste characterization field is used in WICS reporting.

7.1.2 Activity

The *Activity* sub-tabs enable the user to view and modify a container's radiological information from *2109 Values*, *From Parent*, *NDA/DTC/ISOCs/IQ3*, *SCO* and *Contamination*.




For inventory control purposes, radiological activity is converted to PE-Ci and FGE, which is then ascribed to the container according to a hierarchy. *SCO* and assayed (*NDA*, *DTC*, *ISOCs* and *IQ3*) activity overrides *2109* activity, which overrides *From Parent* activity. When a special designator is checked, *SCO* activity for a container's puck may be assigned independent of other radiological activity.


7.1.2.1 2109 Values

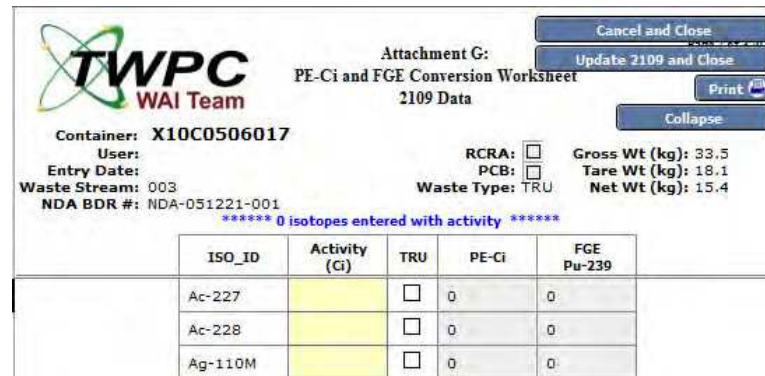
Isotopic activity entered from 2109 sources displays within a portal within the container's 2109 tab. This activity calculates to PE-Ci and FGE, displayed to the right of the portal.

[illegible]



Click the **Copy Activity**  button to copy the 2109 isotopic values from the current container record. A following dialog will indicate this information is available to paste into a spreadsheet:




Click **Add 2109 DSA Isotope Activity**  button to create or edit an entry. A popup window will display all available isotopes (as established in the **Activity Matrix** table, see **Section 5.1.5**).





| ISO_ID | Activity (Ci) | TRU | PE-Ci | FGE Pu-239 |
|---------|---------------|--------------------------|-------|------------|
| Ac-227 | | <input type="checkbox"/> | 0 | 0 |
| Ac-228 | | <input type="checkbox"/> | 0 | 0 |
| Ag-110M | | <input type="checkbox"/> | 0 | 0 |

Qualified users enter the activity for each isotope in the list. Upon completion, the **Collapse**  button reduces the displayed isotopes to those with entered activity and displays the total PE-Ci and FGE conversions for the activity. If additional isotopic entries are required the Collapse button changes to an **Expand**  button, making all isotopes available for editing.

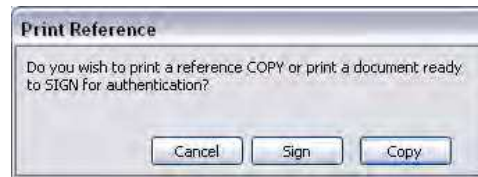
Clicking the **Print**  button will print a collapsed isotopic conversion sheet.

The **Cancel and Close**  button will forego any alteration to the Container record and close the window.

The **Update 2109 and Close**  button will alter all isotopic activity related to the container. The user will be alerted to the changed values as the container record is updated. When values are altered, a line is written into the Characterization Change History, viewable from within the Container Detail Process tab.

Click **Print Worksheet**  button to print an **Attachment G: PE-Ci and FGE Conversion Worksheet 2109 Data** or save it to a PDF file. For an example, see **Appendix (Forms)**. For users with privilege sets other than WICS_Administrator or WICS_Analytical, the following will print in place of signature: "For reference only. Contact DCRM or see container traveler for original."

For users with privilege sets WICS_Administrator or WICS_Analytical, the following dialog provides options for printing the worksheet:



When the **Sign** button is chosen, the worksheet will print with the username and signature block at the bottom as follows:


| | |
|---|--|
| Developer | 2/22/2010 |
| Name | Date |
| Signature | |
| Originally input into WICS by Developer on 12/20/2007 | Printed on 2/22/2010 at 11:22 AM by developer |

If the **Copy** button is chosen, the worksheet will print "For reference only. Contact DCRM or see container traveler for original." in place of signature block.

7.1.2.2 From Parent

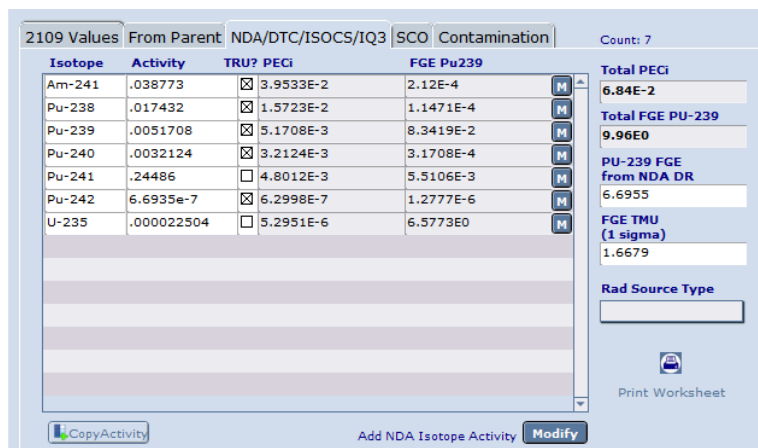
When a container's activity is attributable to its joined parent(s), the PE-Ci and FGE derived from each parent displays in a portal within the *From Parent* tab. The sum of activity from all joined parent containers displays to the right of the portal.

[illegible]

Click the corresponding **View**  button to navigate to the related parent container record. Use the vertical scroll bar (right side) to access records outside the portal view.

7.1.2.3 NDA/DTC/ISOCS/IQ3

Isotopic activity entered from assay displays within a portal within the container's *NDA/DTC/ISOCs/IQ3* tab. This activity calculates to PE-Ci and FGE, displayed to the right of the portal.



| Isotope | Activity | TRU? PE-Ci | FGE Pu-239 |
|---------|------------|---|------------|
| Am-241 | .038773 | <input checked="" type="checkbox"/> 3.9533E-2 | 2.12E-4 |
| Pu-238 | .017432 | <input checked="" type="checkbox"/> 1.5723E-2 | 1.1471E-4 |
| Pu-239 | .0051708 | <input checked="" type="checkbox"/> 5.1708E-3 | 8.3419E-2 |
| Pu-240 | .0032124 | <input checked="" type="checkbox"/> 3.2124E-3 | 3.1708E-4 |
| Pu-241 | .24486 | <input type="checkbox"/> 4.8012E-3 | 5.5106E-3 |
| Pu-242 | 6.6935E-7 | <input checked="" type="checkbox"/> 6.2998E-7 | 1.2777E-6 |
| U-235 | .000022504 | <input type="checkbox"/> 5.2951E-6 | 6.5773E0 |

Count: 7

Total PE-Ci: 6.84E-2

Total FGE PU-239: 9.96E0


PU-239 FGE from NDA DR: 6.6955


FGE TMU (1 sigma): 1.6679

Rad Source Type: []

Print Worksheet

CopyActivity Add NDA Isotope Activity Modify


Click the **Copy Activity**  button to copy the NDA/DTC/ISOCS/IQ3 isotopic values from the current container record. A following dialog will indicate this information is available to paste into a spreadsheet:

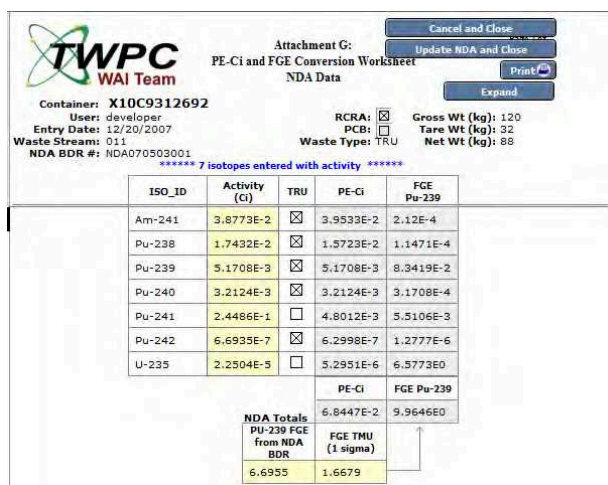


NDA Values Copied

NDA Isotopic activity for Container X10C9312154 was copied and is ready to paste into a spreadsheet.

OK

Click **Add NDA Isotope Activity**  button to create or edit an entry. A popup window will display all available isotopes (as established in the **Activity Matrix** table, see **Section 5.1.5**).



TWPC WAI Team

Attachment G: PE-Ci and FGE Conversion Worksheet NDA Data

Container: X10C9312692

User: developer

Entry Date: 12/20/2007

Waste Stream: 011

NDA BDR #: NDA070503001

RCRA: ☒ Gross Wt (kg): 120

PCB: ☐ Tare Wt (kg): 32

Waste Type: TRU Net Wt (kg): 88


***** 7 isotopes entered with activity *****

| ISO_ID | Activity (Ci) | TRU | PE-Ci | FGE Pu-239 |
|--------|---------------|-------------------------------------|-----------|------------|
| Am-241 | 3.8773E-2 | <input checked="" type="checkbox"/> | 3.9533E-2 | 2.12E-4 |
| Pu-238 | 1.7432E-2 | <input checked="" type="checkbox"/> | 1.5723E-2 | 1.1471E-4 |
| Pu-239 | 5.1708E-3 | <input checked="" type="checkbox"/> | 5.1708E-3 | 8.3419E-2 |
| Pu-240 | 3.2124E-3 | <input checked="" type="checkbox"/> | 3.2124E-3 | 3.1708E-4 |
| Pu-241 | 2.4486E-1 | <input type="checkbox"/> | 4.8012E-3 | 5.5106E-3 |
| Pu-242 | 6.6935E-7 | <input checked="" type="checkbox"/> | 6.2998E-7 | 1.2777E-6 |
| U-235 | 2.2504E-5 | <input type="checkbox"/> | 5.2951E-6 | 6.5773E0 |

PE-Ci: 6.8447E-2 FGE Pu-239: 9.9646E0


NDA Totals: PU-239 FGE from NDA BDR: 6.6955 FGE TMU (1 sigma): 1.6679

Cancel and Close Update NDA and Close Print Expand


Qualified users enter the activity for each isotope in the list. Upon completion, the **Collapse**  button reduces the displayed isotopes to those with entered activity and displays the total PE-Ci and FGE conversions for the activity.


Entry of *PU-239 FGE from NDA BDR* and *FGE TMU (1 sigma)* fields overrides FGE conversions from entered isotopic activity based on the following formula:


$$\text{PU-239 FGE} + [\text{FGE TMU (1 sigma)} * 1.96]$$

If additional isotopic entries are required the Collapse button changes to an **Expand**  button, making all isotopes available for editing.

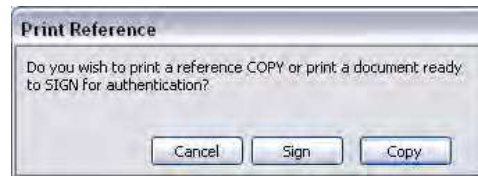
Clicking the **Print**  button will print a collapsed isotopic conversion sheet.

The **Cancel and Close**  button will forego any alteration to the Container record and close the window.

The **Update NDA and Close**  button will alter all isotopic activity related to the container. The user will be alerted to the changed values as the container record is updated. When values are altered, a line is written into the Characterization Change History, viewable from within the Container Detail Process tab.

Click **Print Worksheet**  button to print an **Attachment G: PE-Ci and FGE Conversion Worksheet NDA Data** or save it to a PDF file. For users with privilege sets other than WICS_Administrator or WICS_Analytical, the following will print in place of signature: "For reference only. Contact DCRM or see container traveler for original."

For users with privilege sets WICS_Administrator or WICS_Analytical, the following dialog provides options for printing the worksheet:



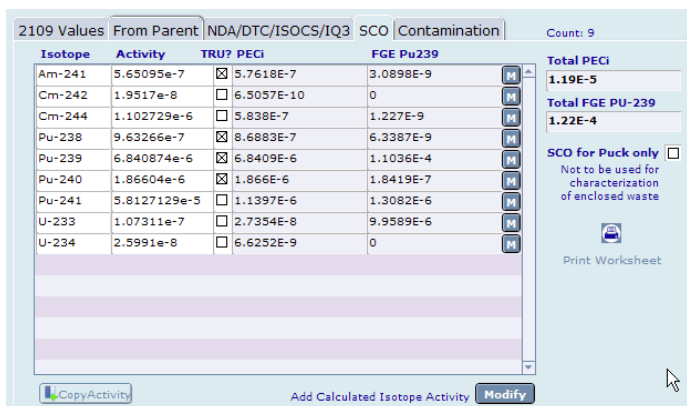
When the **Sign** button is chosen, the worksheet will print with the username and signature block at the bottom as follows:

| | | |
|---|-----------|---|
| Developer | | 2/22/2010 |
| Name | Signature | Date |
| Originally input into WICS by Developer on 12/20/2007 | | Printed on 2/22/2010 at 11:22 AM by developer |

If the **Copy** button is chosen, the worksheet will print "For reference only. Contact DCRM or see container traveler for original." in place of signature block.

7.1.2.4 SCO

Isotopic activity entered from assay displays within a portal within the container's *SCO* tab. This activity calculates to PE-Ci and FGE, displayed to the right of the portal.



| Isotope | Activity | TRU? PE-CI | FGE Pu-239 |
|---------|--------------|---|------------|
| Am-241 | 5.65095e-7 | <input checked="" type="checkbox"/> 5.7618E-7 | 3.0898E-9 |
| Cm-242 | 1.9517e-8 | <input type="checkbox"/> 6.5057E-10 | 0 |
| Cm-244 | 1.102729e-6 | <input type="checkbox"/> 5.838E-7 | 1.227E-9 |
| Pu-238 | 9.63266e-7 | <input checked="" type="checkbox"/> 8.6883E-7 | 6.3387E-9 |
| Pu-239 | 6.840874e-6 | <input checked="" type="checkbox"/> 6.8409E-6 | 1.1036E-4 |
| Pu-240 | 1.86604e-6 | <input checked="" type="checkbox"/> 1.866E-6 | 1.8419E-7 |
| Pu-241 | 5.8127129e-5 | <input type="checkbox"/> 1.1397E-6 | 1.3082E-6 |
| U-233 | 1.07311e-7 | <input type="checkbox"/> 2.7354E-8 | 9.9589E-6 |
| U-234 | 2.5991e-8 | <input type="checkbox"/> 6.6252E-9 | 0 |

Count: 9

Total PE-CI: 1.19E-5

Total FGE Pu-239: 1.22E-4

SCO for Puck only ☐

Not to be used for characterization of enclosed waste

Print Worksheet

Copy Activity Add Calculated Isotope Activity Modify

TWPC may track SCO activity from the puck of given container separately from the activity of the container's waste. Click the **SCO for Puck only** checkbox to indicate this condition. When checked, activity can be properly assigned to daughter containers based on the container's waste versus the puck SCO.

Click the **Copy Activity** button to copy the SCO isotopic values from the current container record. A following dialog will indicate this information is available to paste into a spreadsheet:

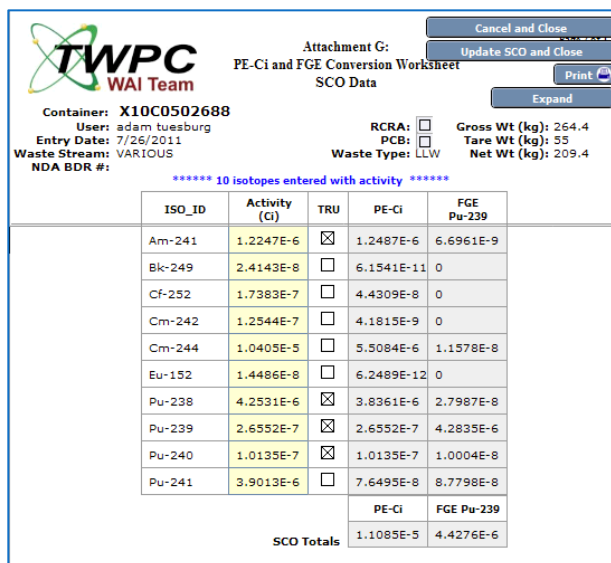


SCO/Other Values Copied

SCO/Other Isotopic activity for Container X10C30111 was copied and is ready to paste into a spreadsheet.

OK

Click **Add Calculated Isotope Activity** button to create or edit an entry when there is no NDA and when the Puck SCO is not checked. A popup window will display all available isotopes (as established in the **Activity Matrix** table, see **Section 5.1.5**).



Attachment G: PE-CI and FGE Conversion Worksheet SCO Data

Container: X10C0502688

User: adam.tuesburg

Entry Date: 7/26/2011

Waste Stream: VARIOUS

NDA BDR #:

RCRA: ☐ Gross Wt (kg): 264.4



PCB: ☐ Tare Wt (kg): 55

Waste Type: LLW Net Wt (kg): 209.4

***** 10 isotopes entered with activity *****


| ISO_ID | Activity (Ci) | TRU | PE-CI | FGE Pu-239 |
|------------|---------------|-------------------------------------|------------|------------|
| Am-241 | 1.2247E-6 | <input checked="" type="checkbox"/> | 1.2487E-6 | 6.6961E-9 |
| Blk-249 | 2.4143E-8 | <input type="checkbox"/> | 6.1541E-11 | 0 |
| Cf-252 | 1.7383E-7 | <input type="checkbox"/> | 4.4309E-8 | 0 |
| Cm-242 | 1.2544E-7 | <input type="checkbox"/> | 4.1815E-9 | 0 |
| Cm-244 | 1.0405E-5 | <input type="checkbox"/> | 5.5084E-6 | 1.1578E-8 |
| Eu-152 | 1.4486E-8 | <input type="checkbox"/> | 6.2489E-12 | 0 |
| Pu-238 | 4.2531E-6 | <input checked="" type="checkbox"/> | 3.8361E-6 | 2.7987E-8 |
| Pu-239 | 2.6552E-7 | <input checked="" type="checkbox"/> | 2.6552E-7 | 4.2835E-6 |
| Pu-240 | 1.0135E-7 | <input checked="" type="checkbox"/> | 1.0135E-7 | 1.0004E-8 |
| Pu-241 | 3.9013E-6 | <input type="checkbox"/> | 7.6495E-8 | 8.7798E-8 |
| SCO Totals | | | 1.1085E-5 | 4.4276E-6 |


Cancel and Close Update SCO and Close Print Expand

Qualified users enter the activity for each isotope in the list. Upon completion, the **Collapse**  button reduces the displayed isotopes to those with entered activity and displays the total PE-Ci and FGE conversions for the activity. If additional isotopic entries are required the Collapse button changes to an **Expand**  button, making all isotopes available for editing.

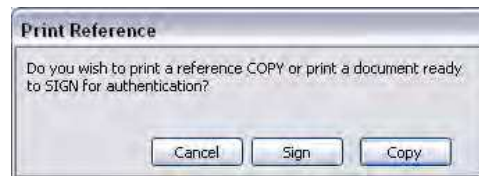
Clicking the **Print**  button will print a collapsed isotopic conversion sheet.

The **Cancel and Close**  button will forego any alteration to the Container record and close the window.

The **Update Other and Close**  button will alter all SCO isotopic activity related to the container when there is no NDA and when the Puck SCO is not checked. The user will be alerted to the changed values as the container record is updated. When values are altered, a line is written into the Characterization Change History, viewable from within the Container Detail Process tab.

Click **Print Worksheet**  button to print an **Attachment G: PE-Ci and FGE Conversion Worksheet SCO Data** or save it to a PDF file. For users with privilege sets other than WICS_Administrator or WICS_Analytical, the following will print in place of signature: "For reference only. Contact DCRM or see container traveler for original."

For users with privilege sets WICS_Administrator or WICS_Analytical, the following dialog provides options for printing the worksheet:



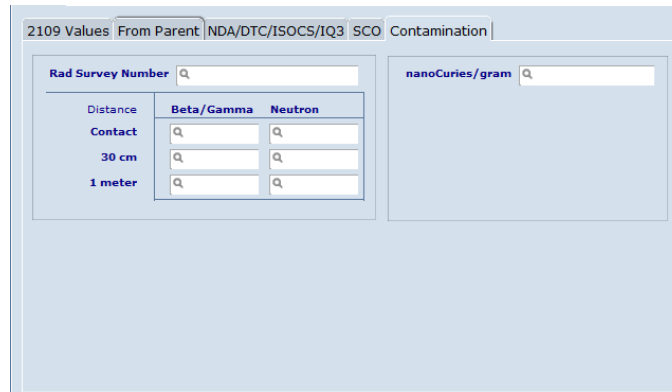
When the **Sign** button is chosen, the worksheet will print with the username and signature block at the bottom as follows:

| | | |
|---|-----------|---|
| Developer | | 2/22/2010 |
| Name | Signature | Date |
| Originally input into WICS by Developer on 12/20/2007 | | Printed on 2/22/2010 at 11:22 AM by developer |

If the **Copy** button is chosen, the worksheet will print "For reference only. Contact DCRM or see container traveler for original." in place of signature block.

7.1.2.5 Contamination

The Contamination displays field data from Rad Survey systems and nanocuries per gram.




Rad Survey fields are typically populated from other TWPC systems and used to prepare SCO activity for TWPC drum pucks, empty boxes, and waste items. The fields populated are entered from at TWPC **Rad Survey Number**. Each Rad Survey includes **Beta/Gamma** and **Neutron** contamination measured from three distances: Contact, 30 cm, and 1 meter.

Entry of **nanoCuries/gram** can be direct by qualified users or imported from other TWPC systems.

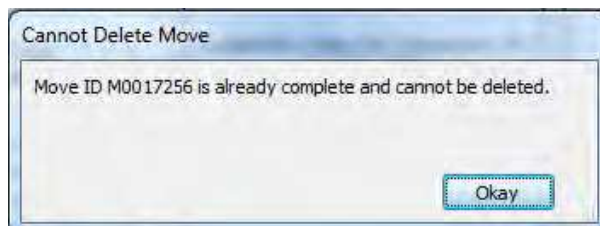
7.1.3 Processes

The *Processes* tab incorporates a portal to display the process history for a specific container, sorted by the most current process for that container:

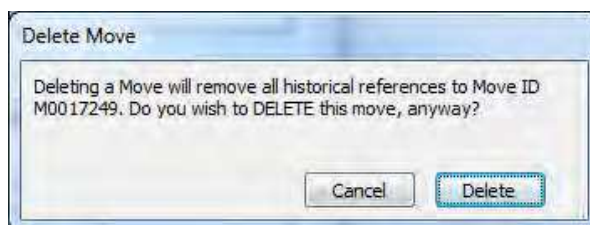
| Activity Processes Related Containers Records Other | | | | | | | | | |
|---|---------|----------|-------------------------------|----------|------------|-----------|---------|--------------------------|------|
| Date In | Process | Date Out | DR Number yellow = missing | DR Date | To Records | Validated | Move ID | Report | Omit |
| 03/18/06 | NDE | 03/18/06 | NDE-060118-001 | 01/18/06 | 03/18/06 | 01/29/07 | | <input type="checkbox"/> | |
| Notes: | | | | | | | | | |
| 03/01/06 | Repack | 03/01/06 | | | | | | <input type="checkbox"/> | |
| Notes: X10C0501277, VEL-060301-006 | | | | | | | | | |
| 02/27/06 | HSG | 03/01/06 | HSG-060226-001 | 02/26/06 | 03/01/06 | 03/11/06 | | <input type="checkbox"/> | |
| Notes: | | | | | | | | | |
| 02/23/06 | TempEq | 02/26/06 | | | | | | <input type="checkbox"/> | |
| Notes: | | | | | | | | | |
| 02/21/06 | NDA | 02/21/06 | NDA-051221-001 | 12/21/05 | 02/21/06 | 03/19/06 | | <input type="checkbox"/> | |
| Notes: | | | | | | | | | |
| Characterization Change History | | | | | | | | | |
| 8/12/2009 9:16:40 AM: Waste Stream changed from 003 by mike.mccauley. | | | | | | | | | |
| 9/11/2008 3:30:52 PM TRU indicator removed for PU-241 isotopic value entry per Dan Goade. | | | | | | | | | |

Any processes attached to this container are displayed. The **Date In**, **Process**, **Date Out**, **DR Number** (editable by Entry Level and Administrative Users), **DR Date**, **To Records (date)**, **Validated (date)**, and related **Move ID** are shown. The **Report Omit** indicator is entered when a process is to be exempt from WICS process and milestone reporting. Under specific conditions, clicking the Trash Can  icon will remove a process record. Only a WICS Administrator can delete process records. Deletion is not permitted once a move is completed.

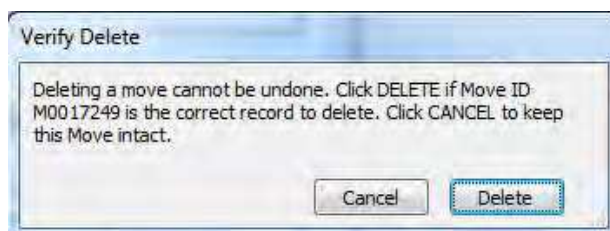
If a process record is part of an existing move authorization, deletion is not allowed and the following Cannot Delete Move alert appears.



When deletion is allowed, the following Delete Move alert appears to advise user this will remove all historical references to the Move ID.



When Delete is chosen, the following Verify Delete alert appears to advise deleting a move cannot be undone.



When DRs are required (as determined by Process Setup tables discussed in Section 5.1.4 of this document), the DR Number field is highlighted in yellow until a DR Number is entered. In addition, an arrow button next to the DR Number field will immediately search all processes using the same DR Number and display them in a separate Process List window for editing or printing.

Many processes automatically enter from MoveControl activities. These activities automatically input specific notes into each process's **Note** field. However, Entry Level and Administrative Users can edit these notes or enter additional notes relating to these processes.

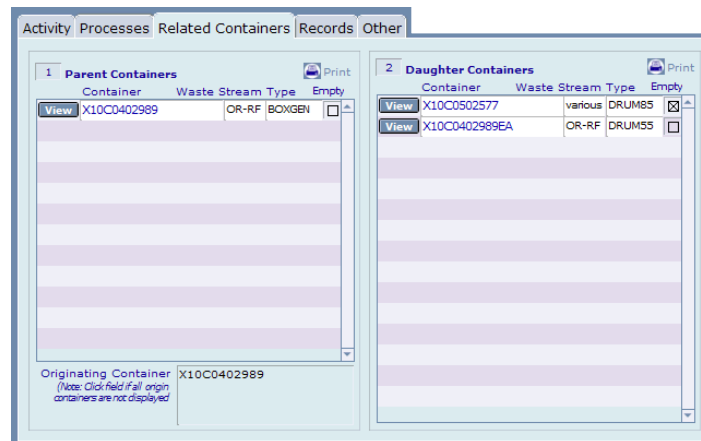
When a process required a Movement Authorization Form, a **Move ID** is entered automatically by the system. Clicking the arrow button next to the Move ID field opens the related Movement Authorization Form in a separate window.

Use the vertical scroll bar (right side) to access records outside the portal view.

A **Change History** log is displayed at the bottom of the Process History tab. This field records altered characterization changes as they take place in WICS.

7.1.4 Related Containers

The *Related Containers* tab incorporates two portals to display any related containers to a specific container:



Parent Containers and/or **Daughter Containers** display within separate portals. For each related container, the **Container** (number), **Waste Stream**, **Type** (of container) and **Empty** (i.e., empty pucks and containers) information display. Related containers are protected against deletion within these portals.

Use the vertical scroll bar (right side) to access records outside the portal view.

Choose **View** to go to the detailed record of a listed container.

7.1.5 Records

Every container processed at TWPC requires maintenance and storage of related records. When such records are stored digitally and recorded in TWPC's FileMaker system named "Records.fp7", a link is established between the WICS container record and the correlating records stored in Records.fp7.

Within the *Containers Detail* layout, a **Records** tab shows a portal to related data within the Records system.

| Tracking Number | Accepted | SPQAD | Date of Review | SPM | Date of Review |
|--|----------|---------------|----------------|--------------------------|----------------|
| ICT-060223-001 | 04/12/06 | Hallman, Tim | 02/23/06 | McCauley, Mike | 03/28/06 |
| Title: Incoming Container Traveler | | | Availability: | Available for Check Out. | |
| NDE-060118-001 | 03/18/06 | Dave Price | 01/19/07 | Ron Robledo | 01/29/07 |
| Title: Non-destructive Examination BDR | | | Availability: | Available for Check Out. | |
| NDA-051221-001 | 02/21/06 | Price, Dave | 03/19/06 | Robledo, Ron | 03/19/06 |
| Title: Non-Destructive Assay BDR | | | Availability: | Available for Check Out. | |
| TRF-051219-002 | 02/14/06 | Dunaway, Nick | 12/19/05 | McCauley, Mike | 12/19/05 |
| Title: Transfer Receipt File | | | Availability: | Available for Check Out. | |

Clicking the arrow button on the left side of each row opens up the Records system for any user with privileges to view this information.

7.1.6 Other

The *Other* tab displays **Origination/AK**, **RCRA**, **TSCA**, **Disposal/Shipping**, or **Waste Programs** information for the selected container.



The screenshot shows the 'Other' tab with the following sections:

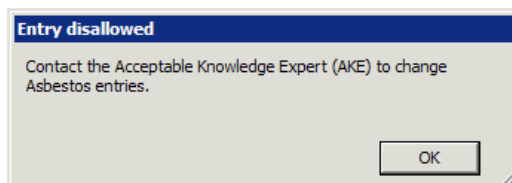
- Origination/AK:** Includes fields for AK Waste Stream (OR-NFS-CH-HET-A), Origin Date (From AKPK: 06/11/2003, Calculated: 06/11/2003), Special Info, Notes, Facility, WICS AK Origin Container (X10C0506015), and WNCR or PI originated from.
- RCRA:** Includes a checked 'Start' checkbox, a date field (06/11/2003), and a list of EPH codes (D008).
- TSCA:** Includes checkboxes for PCBs? and Asbestos Type, and fields for Class, Conc, Weight, and Out of Service.
- Disposal/Shipping:** Includes a 'Ship Treatment' section with Ship Config ID and App'd WS Profile, and a '* Ship Disposal' section with a table of shipping data.

| Bill of Lading | Transport ID | Manifest ID | Line | Mat/BOL/Ship Date |
|----------------|--------------|---------------|------|-------------------|
| N/A | TNR000023390 | 002997230 JJK | 1 | 03/18/2010 |
- Waste Programs:** Includes fields for Treatment Date, TSD Facility, Location, Priority, STP Target, STP Credit, Rework Code, and WP Status.

Fields displayed in white are editable by qualified users.

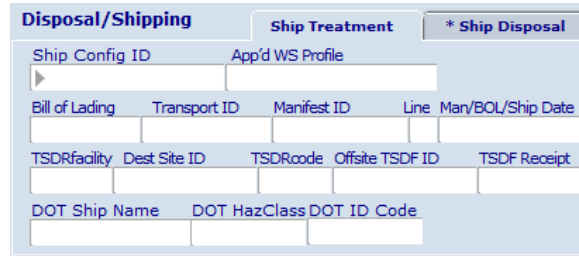
Origination/AK fields display the following data from AKPKS: **AK Waste Stream**, **Origin Date**, **Special Info**, **AK Origin Container**, **Notes**, and **Facility**. Direct entry by qualified users is possible in the remaining Origination/AK fields. The calculated **Origination** date is based on underlying join routines and related tables, but can be overridden by direct entry. Similarly, the WICS **Origin Container** and **WNCR or PI origination from** fields are set during container join processes, but allow direct entry by qualified users.

Most fields within the *RCRA* and *TSCA* block are either displayed directly from AKPKS, editable only by the AKE within WICS, or automatically entered during JOIN operations. Despite direct or automatic entry into RCRA and TSCA fields, AKPKS data will supersede and be displayed in place of WICS user entries. When users attempt to edit *RCRA* and *TSCA* fields that relate to AKPKS records, the user is prompted to contact the AKE to make changes.



Additional field detail is not required for the user manual. The use of most fields is procedure driven.

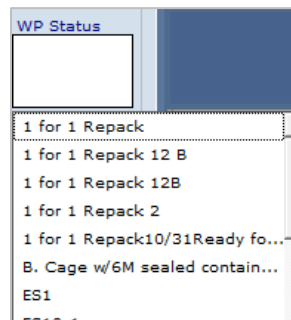
The *Disposal/Shipping* block incorporates entry fields for TWPC Waste Programs personnel.



The block includes two tabs to input *Ship Treatment* and *Ship Disposal* data. The block also includes a field input by Waste Operations personnel to designate an **Approved Waste Stream Profile**. When a related shipment configuration record was uploaded to WICS, the **Ship Config ID** displays. Clicking the arrow within the Ship Config ID field opens the related record in ShipConfig.fmp12.

The *Waste Programs* block incorporates the following fields, editable only by qualified Waste Programs users:

- **Treatment Date** (dropdown calendar or direct entry)
- **TSDF Disposal Date** (dropdown calendar or direct entry)
- **TSDF Disposal Location** (dropdown selection)
- **STP Priority** (direct entry)
- **STP Target** (dropdown selection or direct entry)
- **STP Credit** (dropdown selection)
- **Rework Code** (dropdown selection or direct entry)
- **Waste Programs (WP) Status** (dropdown selection or direct entry).

7.2 Containers (List View)

By clicking the List View tab, a user can browse single line summaries of Container Records. Clicking on any column header sorts the list according to that column's data in ascending order. Additional sorting instructions are provided at the top of the list. These instructions include FileMaker's standard methods for sorting records. Help for FileMaker-related sorting is available from FileMaker's *Help* menu.

| Container List | | | Developer / Feb 18, 2013 | | | Search | | Show All | | Print | | First | | Prev | | Next | | Last | |
|---|--------|---------------------------|--------------------------|---------------------------|--------------------------|--------|------------|--------------------------|--------------------------|------------|--------------|-------------|------------|------------------------|------|-------------|-------------|--------------------------------------|--|
| Sort Methods: A) Click header row. B) Right-click on a field, choose SORT. or C) Control-S for full sort options. | | | | | | | | | | | | | | | | | | Create New Container | |
| Detail View | | List View | | Summarize | | | | | | | | | | | | | | | |
| Container ID | In/Out | MT | Type | Ovr Pk | Sec | Vol. | RCRA Dr Eq | RC RA | NC PI | Waste Type | Waste Stream | Date Origin | Date Rec'd | Ready for | Date | Status Date | Trnsfr Code | | |
| X10C0506015 | I | <input type="checkbox"/> | DRUM55 | <input type="checkbox"/> | <input type="checkbox"/> | 0.21 | 1,000 | <input type="checkbox"/> | <input type="checkbox"/> | TRU | 003 | 6/11/03 | 8/6/07 | | | 3/1/06 | X | | |
| Current Area: | | Process | | on: | | PType | | NDA,DR: NDA-051221-001 | | on: | | STP: NO STP | | Detail | | | | | |
| X10C0506016 | I | <input type="checkbox"/> | DRUM55 | <input type="checkbox"/> | <input type="checkbox"/> | 0.21 | 1,000 | <input type="checkbox"/> | <input type="checkbox"/> | LLW | 003 | 11/30/01 | 8/6/07 | | | 5/4/06 | N | | |
| Current Area: | | Process | | on: | | PType | | NDA,DR: NDA-051221-001 | | on: | | STP: FY07-4 | | Detail | | | | | |
| X10C0506017 | I | <input type="checkbox"/> | DRUM55 | <input type="checkbox"/> | <input type="checkbox"/> | 0.21 | 1,000 | <input type="checkbox"/> | <input type="checkbox"/> | TRU | 003 | 4/3/03 | 8/6/07 | | | 2/22/06 | X | | |
| Current Area: | | Process | | on: | | PType | | NDA,DR: NDA-051221-001 | | on: | | STP: NO STP | | Detail | | | | | |
| X10C0506052 | I | <input type="checkbox"/> | DRUM55 | <input type="checkbox"/> | <input type="checkbox"/> | 0.21 | 1,000 | <input type="checkbox"/> | <input type="checkbox"/> | LLW | 003 | 6/13/01 | 8/6/07 | | | 5/4/06 | N | | |
| Current Area: | | Process | | on: | | PType | | NDA,DR: NDA-051221-001 | | on: | | STP: FY07-4 | | Detail | | | | | |

Included in the **List View** are **Container ID**, **In/Out**, **MT**, **Type**, **Ovr Pk** (overpack), **Sec** (Secondary Waste), **Vol.** (Volume), **RCRA Dr Eq** (Drum Equivalent), **RCRA, NC/PI** (non-conforming/ prohibited items), **Waste Type**, **Waste Stream**, **Date Origin**, **Date Rec'd**, **Ready For** and **Date**, **Status Date** and **Trnsfr Code** (transfer code). The second line for each record displays **Current Area**, current **Process**, **PI Type**, **NDA DR**, and **STP**.

Container records cannot be modified in this view. Clicking the Detail **Detail** button opens the Container Detail layout to allow modifications to the container record.

7.2.1 Summarize

Clicking the **Summarize** **Summarize** button adds a summary line (below the sort methods line) with summary counts of containers and volumes.

| Sort Methods: A) Click header row. B) Right-click on a field, choose SORT. or C) Control-S for full sort options. | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 3167 containers 1560 Incoming 1582 outgoing 1015.47 m3 4835.59 drum equivalents | | | | | | | | | | | | | | |

7.2.2 Detail

Clicking the **Detail** **Detail** button displays the corresponding Container Record in the **Containers Detail View** screen. See **Section 7.1 Containers (Detail View)**.

Sorting in this view can be done by clicking on the header row, right clicking on a field and selecting **SORT**, or using **Control-S** for full sort options.

8.0 AREAS & MOVES

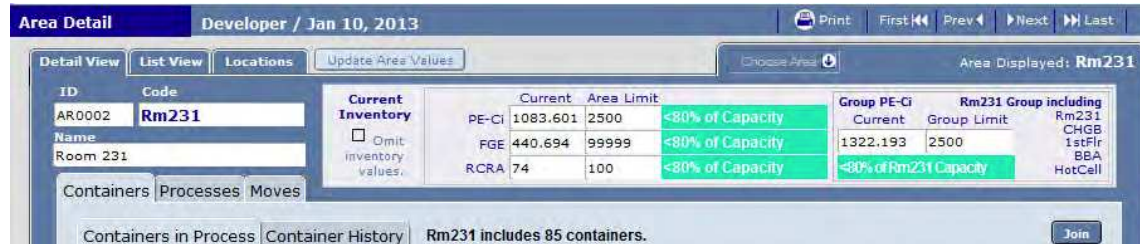
WICS provides comprehensive detail for **Areas & Moves**. The main layout is accessible from anywhere in the system by clicking the **Areas & Moves** menu icon. Users can view Area Records in **Detail View** or **List View** by clicking the relevant tab below the menu function bar. In addition, the **Locations** tab provides access to affiliated locations within the inventory control Area.

| | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| TWPC WAI Team | | | | | | | | | | | | | | |
| Home Menu Containers Areas & Moves GloveBox Activities Hot Cell Activities CPE Activities Help Setup/Preferences Exit Application | | | | | | | | | | | | | | |
| Area Detail Developer / Jan 10, 2013 | | | | | | | | | | | | | | |
| Detail View List View Locations Update Area Values Choose Area Area Displayed: Rm231 | | | | | | | | | | | | | | |

8.1 Areas & Moves (Detail View)

The **Detail View** display header includes area **ID**, **Code**, **Name**, **Current Inventory** values (Current and Area Limit) and **Group PE-Ci** values (Current and Group limit).


When the **Omit inventory values** checkbox is selected, container activity in the current area is not included in calculations. Color-coded warnings are provided to indicate the percentage of utilized area limits. These warnings will change from green to yellow when an area's capacity meets or exceeds 80 percent, from yellow to orange when the area meets or exceeds 90 percent, and red when an area meets or exceeds its capacity:

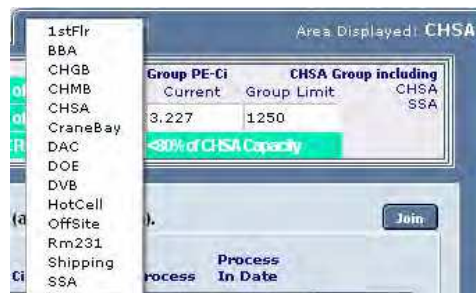


| Current | Area Limit | Capacity |
|----------------|------------|------------------|
| PE-CI 1083.601 | 2500 | <80% of Capacity |
| FGE 440.694 | 99999 | <80% of Capacity |
| RCRA 74 | 100 | <80% of Capacity |

Area Displayed: Rm231

Rm231 Group including: Rm231, CHGB, 1stFlr, BBA, HotCell

The right side header includes **Area Displayed:** with area name for easy reference. To change the display to another area, click the down arrow  to view a dropdown list of area names:



Area Displayed: CHSA

CHSA Group including: CHSA, SSA

Current: 3.227, Group Limit: 1250

<80% of CHSA Capacity

8.1.1 Containers (in Area)

The **Containers** tab displays the **Containers in Process** screen with an alternate tab for **Container History**. In addition to the tabs, alert messages pertaining to the corresponding area's container count are displayed. These include informational statistics or warnings when area limits are exceeded. The warnings change from green to yellow at 80 percent, to orange at 90 percent, and to red at 100 percent.



Containers in Process | Container History | CHSA includes 315 in-process containers.

8.1.1.1 Containers in Process

Containers in Process | Container History | Rm231 includes 85 containers. Join

| Container | In/ Out | Cont. Type | Vol. cu.m. | Waste Type | NC PI | Waste Stream | R? | PE-CI | FGE | Process | Process In Date | |
|-----------------------------------|------------|---------------|---------------|---------------|----------|-----------------|-------------------------------------|-------|--------|---------|--------------------|----------------------|
| View ABSMATERIAL7 | | DRUM55 | 0.00 | | | | | | | S-231 | 06/01/12 | Move |
| View ABSMATERIAL8 | O | DRUM55 | 0.00 | | | | | | | S-231 | 06/04/12 | Move |
| View CPET0006 | O | Tote | | | | OR-RE | <input checked="" type="checkbox"/> | 0.082 | 0.000 | S-231 | 11/26/12 | Move |
| View HCT0011 | O | Tote | | | | | <input type="checkbox"/> | 0.274 | 0.001 | S-231 | 10/04/12 | Move |
| View HCT0017 | O | Tote | | | | | <input type="checkbox"/> | 0.149 | 0.000 | S-231 | 09/14/12 | Move |
| View HCT0018 | O | Tote | | | | OR-RE | <input checked="" type="checkbox"/> | 0.163 | 0.000 | S-231 | 09/04/12 | Move |
| View HCT0019 | | Tote | | | | | <input type="checkbox"/> | 0.255 | 0.001 | S-231 | 10/17/12 | Move |
| View HOTCELLGW | | DRUM55 | 0.00 | | | | | | | S-231 | 12/28/11 | Move |
| View PBWATER1 | O | DRUM55 | 0.00 | | | | | | | S-231 | 05/31/12 | Move |
| View PBWATER2 | O | DRUM55 | 0.00 | | | | | | | S-231 | 06/04/12 | Move |
| View PBWATER4 | O | DRUM55 | 0.00 | | | | | | | S-231 | 08/21/12 | Move |
| View RDOT0303312 | O | DRUM55 | 0.00 | | | | | | | | | Move |
| View X10C0007057 | I | DRUM55 | 0.21 | | PI | PK350 | <input checked="" type="checkbox"/> | 0.010 | 0.116 | S-231 | 12/17/12 | Move |
| View X10C0303314C | O | DRUM55 | 0.16 | | | ORTW | <input checked="" type="checkbox"/> | 0.083 | 30.379 | | | Move |
| View X10C0402903D | O | DRUM55 | 0.00 | | | OR-RE | <input checked="" type="checkbox"/> | 0.225 | 0.000 | S-231 | 11/15/12 | Move |
| View X10C0402903E | O | DRUM55 | 0.00 | | | OR-RE | <input checked="" type="checkbox"/> | 0.225 | 0.000 | S-231 | 11/16/12 | Move |

Join

The **Join** [Join](#) button initiates the same Join process discussed in **Section 6, Containers**.

View

The **View** [View](#) button locates the corresponding Container Record and displays **Containers Detail View** screen. See **Section 6.1, Containers (Detail View)**.

Move

The **Move** [Move](#) button initiates the *Container Process Change* function, enabling and Entry Level or Administrator user to change the process a container is undergoing. For a container process requiring a move, a Move ID is created. See **Section 6.1.2 Initiate Process Change/Move** for detailed instructions on this procedure.

Use the vertical scroll bar (right side) to access records outside the portal view.

8.1.1.2 Container History

Whereas the *Containers in Process* tab shows current containers in the ICA, the *Container History* tab shows all containers that underwent processing in that area. Since many containers may have been involved in more than one process in a given area, it may show up more than one time. Missing required DRs are highlighted in yellow. Containers sort by their Container ID:

Containers in Process Container History Rm231 includes 85 containers. [Join](#)

| Container | Process | Process In Date | Process Out Date | DR Number yellow = missing | DR Date | Validated | Move ID |
|-------------------------------------|---------|-----------------|------------------|-------------------------------|---------|-----------|--------------------------|
| View 213BAF001 | S-231 | 09/21/12 | 10/02/12 | | | | M0015689 |
| View 213BMS001 | S-231 | 09/21/12 | 10/02/12 | | | | M0015689 |
| View 213BMS002 | S-231 | 09/21/12 | 10/02/12 | | | | M0015689 |
| View 213BMS003 | S-231 | 09/21/12 | 10/02/12 | | | | M0015689 |
| View 231PREFILTERSA | S-231 | 06/24/11 | 06/27/11 | | | | M0010332 |
| View 231PREFILTERSA | S-231 | 04/25/08 | 08/08/08 | | | | M0000944 |
| View 231PREFILTERSB | S-231 | 04/25/08 | 08/08/08 | | | | M0000944 |
| View 231PREFILTERSD | S-231 | 06/24/11 | 06/27/11 | | | | M0010335 |
| View 231PREFILTERSG | S-231 | 06/24/11 | 06/27/11 | | | | M0010337 |
| View ABSMATERIAL | S-231 | 05/29/12 | 06/07/12 | | | | |
| View ABSMATERIAL1 | S-231 | 05/29/12 | 06/07/12 | | | | |
| View ABSMATERIAL2 | S-231 | 05/29/12 | 06/14/12 | | | | |
| View ABSMATERIAL3 | S-231 | 05/29/12 | 06/07/12 | | | | |
| View ABSMATERIAL4 | S-231 | 05/29/12 | 06/07/12 | | | | |
| View ABSMATERIAL5 | S-231 | 05/31/12 | 06/14/12 | | | | M0014818 |
| View ABSMATERIAL6 | S-231 | 05/31/12 | 06/14/12 | | | | M0014818 |

View

The **View** [View](#) button displays the corresponding Container Record in **Containers Detail View** screen. See **Section 7.1 Containers (Detail View)**.

When Move IDs exist for a process, clicking the arrow [y](#) button in the Move ID column will open the **Container Movement Authorization Form**. Refer to **Section 8.1.3.3 Container Movement Authorization Form** (below).

Use the vertical scroll bar (right side) to access records outside the portal view.


8.1.2 Processes


The **Processes** tab displays **Process**, **Container**, **Process In Date**, **Process Out Date**, **DR Number**, **DR Date**, **Validated** (date), and **Move ID** for containers in the corresponding area. Required, but missing, DRs are highlighted in yellow. Processes are sorted by the Process Out Date first, then the Process In Date to assure viewing of the most current processes:

Containers **Processes** Moves

| Process | Container | Process In Date | Process Out Date | DR Number yellow = missing | DR Date | Validated | Move ID |
|---------|------------------------------------|-----------------|------------------|-------------------------------|---------|-----------|-------------------|
| NDE-FS | View X10C9312905 | 08/01/11 | 08/01/11 | | | | y |
| NDE-FS | View X10C9312518 | 08/01/11 | 08/01/11 | | | | y |
| NDE-FS | View X10C9312537 | 08/01/11 | 08/01/11 | | | | y |
| NDE-FS | View X10C9311245 | 08/01/11 | 08/01/11 | | | | y |
| NDE-FS | View X10C9311434 | 08/01/11 | 08/01/11 | | | | y |
| NDA | View X10C9311244A | 08/01/11 | 08/01/11 | WAI-IQ3-110801-1 | | | y |
| NDA | View X10C9312152A | 08/01/11 | 08/01/11 | WAI-IQ3-110801-1 | | | y |
| NDA | View X10C9312784A | 08/01/11 | 08/01/11 | WAI-IQ3-110801-1 | | | y |
| NDA | View X10C9309208T1 | 08/01/11 | 08/01/11 | WAI-IQ3-110801-1 | | | y |
| NDA | View X10C9312056B1 | 08/01/11 | 08/01/11 | WAI-IQ3-110801-1 | | | y |
| S-CHSA | View X10C9311244A | 08/01/11 | 08/01/11 | | | | y |
| S-CHSA | View X10C9312152A | 08/01/11 | 08/01/11 | | | | y |
| S-CHSA | View X10C9312784A | 08/01/11 | 08/01/11 | | | | y |
| S-CHSA | View X10C9309208T1 | 08/01/11 | 08/01/11 | | | | y |
| S-CHSA | View X10C9312056B1 | 08/01/11 | 08/01/11 | | | | y |
| S-CHSA | View X10C9311419 | 07/29/11 | 08/01/11 | | | | y |
| S-CHSA | View X10C9312531 | 07/29/11 | 08/01/11 | | | | y |

View

The **View**  button takes the corresponding Container Record and displays it in **Containers Detail View**. See **Section 7.1 Containers (Detail View)**.


When Move IDs exist for a process, clicking the arrow  button in the Move ID column will open the **Container Movement Authorization Form**. Refer to **Section 8.1.3.3 Container Movement Authorization Form** (below).

Use the vertical scroll bar (right side) to access records outside the portal view.

8.1.3 Moves







New Move

The **New Move**  button allows an Entry Level or Administrator user to initiate the **Container Process Change** function. For a container process requiring a move, a Move ID is created. Refer to **Section 6.1.2 Initiate Process Change/Move** for detailed instructions on this procedure.


8.1.3.1 Moves TO Area

The **Moves TO Area** tab provides information on moves going to a new area. This display includes **Move ID**, **Date Created**, **Originating Area**, **Container Count**, **Move Status**, check boxes for **Sigs OK**, **Authorized**, **Scan IN**, **COMPLETE** and **Date Complete** fields. The second line includes a **Notes** field. Notes become part of the permanent record until deleted. Notes can be used to communicate information to Waste Operators during MoveControl operations or for permanent reference information.



| | Move ID | Date Created | Originating Area | Container Count | Move Status | Sigs OK | Authorized | Scan IN | COMPLETE | Date Complete | Notes |
|---|----------|--------------|------------------|-----------------|---------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------|-------|
|  | M0016856 | 12/27/12 | HotCell | 1 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/27/12 | |
| Notes | | | | | | | | | | | |
|  | M0016852 | 12/20/12 | CHSA | 4 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/20/12 | |
| Notes | | | | | | | | | | | |
|  | M0016843 | 12/19/12 | CHMB | 1 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/20/12 | |
| Notes | | | | | | | | | | | |
|  | M0016839 | 12/19/12 | HotCell | 1 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/19/12 | |
| Notes: Includes provisional inventory for Move IDs: M0016837, M0016838 adding: | | | | | | | | | | | |
|  | M0016838 | 12/19/12 | CHGB | 1 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/19/12 | |
| Notes: Includes provisional inventory for Move IDs: M0016837 AND PE-Ci group Move IDs: M0016836, M0016837 adding: | | | | | | | | | | | |
|  | M0016837 | 12/19/12 | CHGB | 1 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/19/12 | |
| Notes: Active moves add 6.19E+1 to group | | | | | | | | | | | |
|  | M0016834 | 12/19/12 | CHSA | 1 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/19/12 | |
| Notes | | | | | | | | | | | |

View/Edit

The View/Edit  button will locate the corresponding MOVE ID record and display a printable **Container Movement Authorization Form**. Refer to **Section 8.1.3.3 Container Movement Authorization Form** for complete instructions. See example form in **Appendix (Forms)**.


Use the vertical scroll bar (right side) to access records outside the portal view.

8.1.3.2 Moves FROM Area

The *Moves FROM Area* tab provides information on moves coming from an area. This display also includes **Move ID**, **Date Created**, **Destination Area**, **Container Count**, **Move Status**, check boxes for **Sigs OK**, **Authorized**, **Scan IN**, **COMPLETE** and **Date Complete** fields. The second line of each record includes a **Notes** field.

| Move ID | Date Created | Destination Area | Container Count | Move Status | Sigs OK | Authorized | Scan IN | COMPLETE | Date Complete |
|---|--------------|------------------|-----------------|---------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------|
| View/Edit M0016854 | 12/20/12 | CHSA | 4 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/20/12 |
| Notes | | | | | | | | | |
| View/Edit M0016851 | 12/20/12 | CHSA | 8 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/20/12 |
| Notes Includes provisional inventory for Move IDs: M0016849 adding: | | | | | | | | | |
| View/Edit M0016846 | 12/19/12 | CHGB | 1 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/20/12 |
| Notes Active moves add 1.37E-1 to group | | | | | | | | | |
| View/Edit M0016836 | 12/19/12 | BBA | 1 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/19/12 |
| Notes | | | | | | | | | |
| View/Edit M0016832 | 12/19/12 | CHSA | 1 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/19/12 |
| Notes | | | | | | | | | |
| View/Edit M0016828 | 12/19/12 | CHGB | 1 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/19/12 |
| Notes Active moves add 8.28E-2 to group | | | | | | | | | |
| View/Edit M0016826 | 12/19/12 | SSA | 1 | Move Complete | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 12/19/12 |
| Notes Active moves add 1.44E0 to group | | | | | | | | | |


View/Edit


The View/Edit  button will locate the corresponding MOVE ID record and display it on a printable Container Movement Authorization Form. Refer to Section 8.1.3.3 Container Movement Authorization Form (below).

Use the vertical scroll bar (right side) to access records outside the portal view.

8.1.3.3 Container Movement Authorization Form

The Container Movement Authorization Form (example in **Appendix (Forms)**) is displayed in relation to any container process involving a container movement. When a Movement Authorization exceeds 16 affected containers, the display of the form will display up to 100 containers and will require the user to scroll down to complete signatures and view activity. However, this special authorization form will print to fit the number of containers actually entered for this Move Authorization (i.e., if only 20 containers were included in the move, the printout will not show the remaining 80 spaces available for additional containers).

In all Move Authorization layouts, a printable form is generated by clicking the  Print button.


 Container Movement Authorization Form
 Move ID: MD010961
 CH-P-OP-014
 Page 7 of 1463
 ? Help
 Move Authorization Developer / Oct 31, 2011
 Show More Containers Print Close Window

The View/Edit header displays the form name, Move ID, page count, user name, date and **Help** and **Print** buttons. (The printed form does not include the **Help** and **Print** icons or the **Move Checklist** displayed on this screen.)

Except for the Notes field, the following section of the form is read-only information related to the Move ID:

| | | | |
|---|--|---|-------------------------|
| Action <input type="checkbox"/> Transfer to WPF <input type="checkbox"/> TRU Stage <input checked="" type="checkbox"/> Move Container(s) <input type="checkbox"/> Ship Offsite | | Containers X10C9311419 X10C9311776 X10C9312531 X10C9400120 | Date 8/1/2011 |
| FROM CHSA PASS THRU AREAS None None None None TO Rm231 Affected Inventory Control Area | | Notes <div style="border: 1px solid black; height: 150px;"></div> | |

The **Provisional Projected Totals** box indicates the FROM, TO and PASS THRU AREAS. If the destination area is part of an Area Group, the PE-Ci for that group is displayed below next to the signature block. The **Containers** box lists the container(s) being moved. The **Date** and **Notes** are displayed in the top right section.

Provisional Projected Totals

| Inventory Control Areas ("PT" = "Pass Through") | Container Quantity Projected / Limit = % | RCRA Projected / Limit = % | FE-Ci Projected / Limit = % | FGE Projected / Limit = % |
|---|---|-------------------------------|--------------------------------|------------------------------|
| Move Container Count: | 4 | 6 | 3.923 | 0.008 |
| PT None: | / / = | / / = | / / = | / / = |
| PT None: | / / = | / / = | / / = | / / = |
| PT None: | / / = | / / = | / / = | / / = |
| PT None: | / / = | / / = | / / = | / / = |
| Dest Rm231: | 55 / ? = 0% | 37.6 / 75 = 50% | 1605.54 / 2500 = 64% | 468.57 / 99999 = 0% |
| Project Control Certification requiring Authorization | Container Quantity NONE | RCRA Quantity NONE | FE-Ci NONE | FGE NONE |

Under **Provisional Projected Totals**, the approving authority is provided a summary of radiation values and percentage of Area limits affected by this move.

| Required Signatures | | | | Destination ICA Group FE-Ci Projected / Limit = % 1651.70 / 2500 = 66% |
|-----------------------------|----------------------------|---------------------------------|----------|---|
| Inventory Coordinator | Sean Bays | Signed | 8/1/2011 | |
| | Inventory Coordinator Name | Inventory Coordinator Signature | Date: | |
| <input type="checkbox"/> OM | N/A | | | |
| | Operations Manager Name | Operations Manager Signature | Date: | |
| <input type="checkbox"/> FM | N/A | | | |
| | Facilities Manager Name | Facilities Manager Signature | Date: | |
| | | | | FE-Ci (Group) NONE |

The **Required Signatures** section permits those users with approving authority to electronically sign (approve) the movement of container(s).

After signatures are entered, qualified users will use a checklist as a means of verifying procedures and transferring information to Waste Operators.

| Move Checklist | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------|
| Sigs OK | Authorized | Scan IN | COMPLETE | Date Complete |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 8/1/11 |

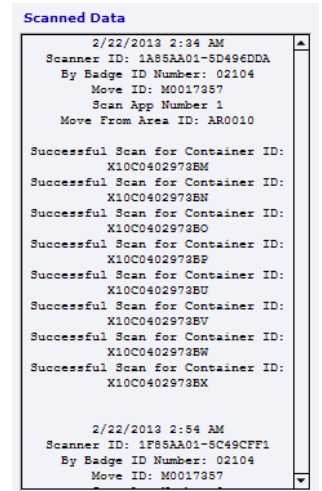
If the user checks the “Sigs OK” box and all required signatures are not entered, the system will not allow the move to process.

After “Sigs OK” is accepted, the user will click the “Authorized” box. This box will prompt the user to print bar-coded control sheets and the Move Authorization form. It will also transfer the Move information to MoveControl for access to Waste Operators.

Upon scanning processes by Waste Operators, (See CM-M-WP-003, MoveControl User Manual for details relating to this process), scanned data will show up in the field below the checkboxes and the “Scan In” box will be checked.

If a Move requires completion without scanned data uploading from MoveControl (i.e., due to equipment malfunctions, etc.), an explanation can be entered into the Scanned Data block and the “Scan Data” box will automatically check.

Finally, after the containers have been moved, the user can click the “COMPLETE” button. The system will remind the user that the values will now move to the destination area and be released from the originating area.



Scanned Data

2/22/2013 2:34 AM
 Scanner ID: 1A85AA01-5D496DDA
 By Badge ID Number: 02104
 Move ID: M0017357
 Scan App Number 1
 Move From Area ID: AR0010

Successful Scan for Container ID: X10C0402973BM
 Successful Scan for Container ID: X10C0402973BN
 Successful Scan for Container ID: X10C0402973BO
 Successful Scan for Container ID: X10C0402973BP
 Successful Scan for Container ID: X10C0402973BU
 Successful Scan for Container ID: X10C0402973BV
 Successful Scan for Container ID: X10C0402973BW
 Successful Scan for Container ID: X10C0402973BX

2/22/2013 2:54 AM
 Scanner ID: 1F85AA01-5C49CFF1
 By Badge ID Number: 02104
 Move ID: M0017357



Verify Completed Move

Completing Move ID M0000240 will remove it from MoveControl and release Activity values to Shipping. Do you wish to continue?

No, Cancel Continue

Upon clicking “Continue” button in the dialog box, the values are transferred and the status of the container is changed to the new process. Also, the **Date Out** for the last process for the container(s) associated with the move alters to reflect the date of the move confirmation.

If a move authorization was entered in error and requires deletion, a Delete Move button corresponding to the current Movement Authorization form is present on beneath the Scanned Data box: **Delete Move M0010961**. This button initiates a script to verify that the move has not already been executed. If so, the move cannot be deleted.



Cannot Delete Move

Move ID M0010961 is already complete and cannot be deleted.

Okay

If not, the user will be asked to verify their intention prior to completing the deletion of the move. Deleting a move also deletes the processes related to that move (i.e., if a move was initiated for a container to undergo an NDA process, that NDA process will be deleted from the Container’s processing history.

8.2 Areas/Moves (List View)

When the Areas/Moves *List View* tab is selected, the system pauses temporarily to calculate the values of all inventory control areas. The following message is displayed while this occurs:



The *List View* displays current summaries for all areas. This tab includes **Location** (Area), **Values Omitted**, **Container Count/Limit**, **RCRA Count/Limit**, **PE-Ci Values/Limit**, **FGE Values/Limit**, and **Group FGE Summary** (Group Name, Values, and Limit):

| Detail View | | List View | Locations | | Update Area Values | | | | | | | | |
|-------------|-------------------------------------|-----------|-----------|--------|--------------------|----------|-------|----------|-------|---------------------|-------------|-------|------------------------|
| Location | Values Omitted | Container | | RCRA | | PE-CI | | FGE | | Group PE-CI Summary | | | |
| | | Count | Limit | Count | Limit | Values | Limit | Values | Limit | Group Name | Values | Limit | |
| CHSA | <input type="checkbox"/> | 315 | 99999 | 286.1 | 400.0 | 577.4963 | 2500 | 1966.839 | 99999 | CHSA | 821.3791387 | 2500 | Detail |
| Rm231 | <input type="checkbox"/> | 52 | 99999 | 33.1 | 75.0 | 1605.539 | 2500 | 468.5695 | 99999 | Rm231 | 1651.700150 | 2500 | Detail |
| CHGB | <input type="checkbox"/> | 3 | 99999 | 4.5 | 10.0 | .0000676 | 340 | .0000169 | 200 | Rm231 | 1651.700150 | 2500 | Detail |
| 1stFlr | <input type="checkbox"/> | | 99999 | | 100.0 | | 2500 | | 99999 | Rm231 | 1651.700150 | 2500 | Detail |
| DAC | <input type="checkbox"/> | 664 | 99999 | 498.0 | 626.0 | 391.4580 | 2500 | 929.8613 | 99999 | DAC | 392.3331650 | 2500 | Detail |
| CraneBay | <input type="checkbox"/> | 56 | 99999 | 47.4 | 50.0 | .3981846 | 2500 | 1.323258 | 99999 | DAC | 392.3331650 | 2500 | Detail |
| Shipping | <input type="checkbox"/> | | 99999 | | 9999.0 | | 2500 | | 99999 | | | | Detail |
| DOE | <input checked="" type="checkbox"/> | | 99999 | | 99999.0 | | 99999 | | 99999 | | | | Detail |
| SSA | <input type="checkbox"/> | 755 | 99999 | 607.5 | 1320.0 | 243.8828 | 2500 | 1138.070 | 99999 | CHSA | 821.3791387 | 2500 | Detail |
| OffSite | <input checked="" type="checkbox"/> | | 99999 | | 99999.0 | | 99999 | | 99999 | | | | Detail |
| BBA | <input type="checkbox"/> | 1 | 99999 | | 45.0 | | 340 | | 200 | Rm231 | 1651.700150 | 2500 | Detail |
| HotCell | <input type="checkbox"/> | 23 | 99999 | 18.9 | 70.0 | .0002032 | 340 | .0000004 | 200 | Rm231 | 1651.700150 | 2500 | Detail |
| DVB | <input type="checkbox"/> | 2 | 99999 | 3.0 | 24.0 | .4769 | 2500 | 5.513032 | 99999 | DAC | 392.3331650 | 2500 | Detail |
| CHMB | <input type="checkbox"/> | 1299 | 99999 | 1399.4 | 2144.0 | 1208.378 | 2500 | 4609.916 | 99999 | | | | Detail |
| DVS | <input type="checkbox"/> | | 99999 | | 99999.0 | | 130 | | 99999 | DAC | 392.3331650 | 2500 | Detail |

When the *List View* tab is selected, the area values are calculated and displayed. If this screen has not been recently refreshed, the **Update Area Values** [Update Area Values](#) button recalculates all area values from active inventories. The following message is displayed while the system calculates area values:



The **Detail** [Detail](#) button on each line opens the *Areas Detail View* screen for the corresponding area record. (See **Section 8.1 Areas (Detail View)** for full explanation.)

8.3 Areas/Moves (Locations)

The Area's *Locations* tab displays a grid showing available locations. The maximum number of location spaces is twenty (20) rows deep (designated from A through T) by ten (10) columns wide (designated from 01 through 10).




To create locations for an area, the administrator must click the Edit Locations List **Edit Location List** button. A pop-up window provides the location list. To add a location, click the Add Location **+** button. Locations are automatically assigned the next location number available (i.e., when locations A-01 through A-10 are already assigned, the next created location would automatically assign to B-01).

| Row (A thru T) | Column (1 thru 10) | No Use | Calculated Location ID | Current Location Status Count | Label | |
|-------------------|-----------------------|--------------------------|---------------------------|----------------------------------|-------------|--|
| A | 01 | <input type="checkbox"/> | AR0010-A-01 | 25 | 25 | |
| A | 02 | <input type="checkbox"/> | AR0010-A-02 | 28 | 28 | |
| A | 03 | <input type="checkbox"/> | AR0010-A-03 | 24 | 24 | |
| A | 04 | <input type="checkbox"/> | AR0010-A-04 | 31 | 31 | |
| A | 05 | <input type="checkbox"/> | AR0010-A-05 | 17 | 17 | |
| A | 06 | <input type="checkbox"/> | AR0010-A-06 | 30 | 30 | |
| A | 07 | <input type="checkbox"/> | AR0010-A-07 | 22 | 22 | |
| A | 08 | <input type="checkbox"/> | AR0010-A-08 | 34 | 34: exceeds | |
| A | 09 | <input type="checkbox"/> | AR0010-A-09 | 0 | Empty | |
| A | 10 | <input type="checkbox"/> | AR0010-A-10 | 31 | 31 | |
| B | 01 | <input type="checkbox"/> | AR0010-B-01 | 0 | Empty | |
| B | 02 | <input type="checkbox"/> | AR0010-B-02 | 0 | Empty | |

Add Location to Southeast Staging Area **+**

Note: When more than one row of locations is created, the full ten (10) columns must also be created (i.e., when an area uses only three columns and four rows, ALL ten columns must be create for rows A, B, and C). Failure to create the full ten columns will result in an inaccurate display.

To configure the location grid to match the available space in an area, the user can indicate which cells are not to be used. Checking the “no use” indicator on the location’s row will designate the location, accordingly.

Clicking the Trash Can  icon will remove the location from the Area.

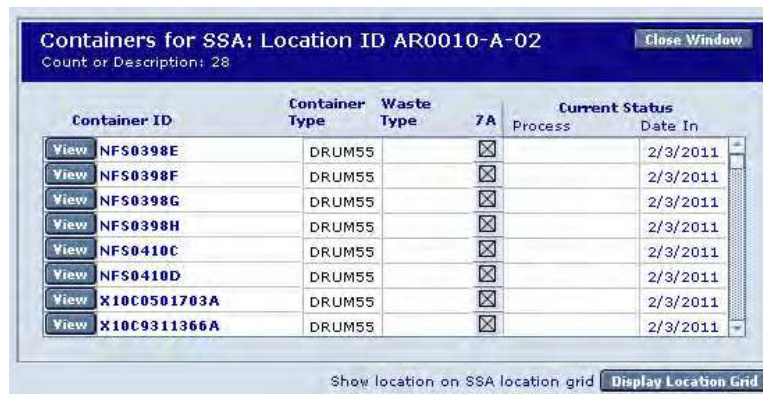
Upon addition of the locations, clicking the Close Window **Close Window** button will update the location grid to the new configuration.



Each available location is identified by a location designator, an alpha character followed by a two-digit numeric value (i.e., A-01, A-02, etc.). Locations indicated as “no use” will display no icon and be marked, accordingly. Empty locations will be marked as “Empty” and have a recessed icon displayed.

When containers are designated to a location, an icon fills the location grid based on the type of container(s). When a box is associated to a location, a box icon is displayed. When drums are in the location, the drums icon is displayed. Each cell displays either the number of drums in the location or the Box designator. Only 8 drums can be assigned to a single location cell.

Clicking on a location cell will pop up a window displaying the container IDs assigned to the location.



Clicking the View [View](#) button for a listed container will direct the user to the container’s detailed layout. Clicking the Display Location Grid [Display Location Grid](#) button will highlight in yellow the cell within the location grid to which the container is assigned. Typing in the container’s ID into the Locate Container field and clicking the Highlight button can also highlight locations.



When a container is entered, the highlight button will change to a Reset button, allowing the user to remove the highlight from the grid.



Containers are assigned to a location by either update from MoveControl bar code scanning operations or direct entry by qualified users to the Container record (See Section 7.1 in this manual).

9.0 GLOVE BOX (GB) ACTIVITIES

The **GB Activities** screen incorporates all containers currently in inventory within the Box Breakdown Area (BBA) (Area ID AR0005) and the CHGB (Area ID AR0003). The GB Activities layout provides tabs to *Assign Containers to Station* and *Join Containers in Stations*.



Containers within the CHGB and BBA can be “Covered” to omit the PE-Ci and FGE values from their area inventory. However, all values, including covered and uncovered containers, will allocate activity to the group within which the CHGB or BBA resides (if designated within the Areas setup table, see Section 4.1.2 in this document). Clicking the “Cover” checkbox on any container row, then clicking the Update Screen Values adjusts the activity for the area.

9.1 Assign Containers to Station

Under *Assign Containers to Station*, containers can be assigned to bays or ports within the CHGB/BBA. To the right of the tabs is an indicator of the number of containers within CHGB/BBA inventory that have not yet been assigned to a CHGB/BBA port or bay. Current area inventory values are displayed on both tabs to determine the effects of CHGB processes on Area Inventory limits.



| Container ID | Container Type | NC | RCRA | PI | PE-Ci | FGE | Assign to Port or Bay | Repack? |
|-----------------------------------|----------------|-------------------------------------|-------|-------|-------|-----|-----------------------|---|
| View X10C9311419A | DRUM55 | <input checked="" type="checkbox"/> | | | | | GB2 | <input type="checkbox"/> Move |
| View X10C9312531A | DRUM55 | <input checked="" type="checkbox"/> | | | | | GB3 | <input type="checkbox"/> Move |
| View LET001 | Boxfibr | <input type="checkbox"/> | | | | | Into BB | <input type="checkbox"/> Move |
| View X10C9311419 | 79galOP | <input checked="" type="checkbox"/> | 0.000 | 0.000 | | | Into GB | <input type="checkbox"/> Move |
| View X10C9312531 | 79galOP | <input checked="" type="checkbox"/> | 0.000 | 0.000 | | | Into GB | <input type="checkbox"/> Move |
| View X10C9400120 | 79galOP | <input checked="" type="checkbox"/> | 0.000 | 0.000 | | | Into GB | <input type="checkbox"/> Move |
| View X10C0502701 | DRUM110 | <input type="checkbox"/> | 0.000 | 0.000 | | | Overpack | <input type="checkbox"/> Move |

CHGB Values

| | Current | Limit |
|-------|---------|-------|
| PE-Ci | 0.000 | 340 |
| FGE | 0.000 | 200 |
| RCRA | 4.5 | 10 |

BBA Values

| | Current | Limit |
|-------|---------|-------|
| PE-Ci | | 340 |
| FGE | | 200 |
| RCRA | | 45 |

CHGB & BBA Group PE-Ci

0.000

Move an empty container into Outgoing Port/Bay [+](#)

To assign a container to a specific port or bay, the user clicks on the **Assign to Port or Bay** field in the selected container row. A drop down list of available choices is presented. Clicking on the desired value enters it into this field. Incoming containers should be assigned to either the *Into GB* or *Into BB* ports. Outgoing containers should be assigned to Overpack, or one of the GB or BBA bays. By assigning outgoing containers to one of these bays, they are ready to accept incoming values. The container selected for the Overpack bay will be used to collect crushed incoming drum pucks.

Use the vertical scroll bar (right side) to access records outside the portal view.


View

The **View**  button opens the corresponding Container Record and displays it in **Containers Detail View** screen. See **Section 6.1 Containers (Detail View)**.

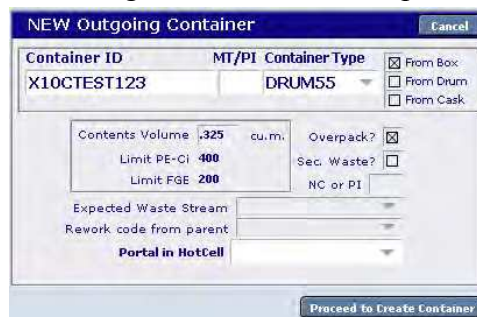
Move

The **Move** button is used to change the container to a new process outside of the CHGB. Refer to **Section 6.1.2 Initiate Process Change/Move** for detailed instructions on this procedure.

Move an empty container into Outgoing Port/Bay

The **Move an empty container into Outgoing Port/Bay**  button creates a new container. The process of container creation is verified by dual entry, as discussed in **Section 6.1.1 Create New Container Record**. Following ID verification, a separate window will pop up to allow the user to create the Container ID. Upon selecting the Container Type, information set up in the Container Type setup table will be displayed. The **From Box**, **From Drum**, or **From Cask** indicator may be selected. For more information about setup, see 5.1.1.1 **Container Types** in this document.

Overpack or **Secondary Waste** designations can be selected for the newly created container by entering or selecting data within the appropriate boxes and fields.



The screen allows the user to place the container in the appropriate station or bay and to assign the container to a specific batch (when batches are available) by clicking into the respective field for drop down lists.

9.2 Join Containers in Stations

The *Join Containers in Stations* layout facilitates containers being viewed, moved and joined with automatic calculations of resulting values.

Upon port or bay selection, container records are available for recording CHGB/BBA processes in the *Join Containers in Stations* tab view. Beyond the Area limit displays, three primary portals are displayed: 1) the incoming container portal shows the containers assigned *Into GB* or *Into BB*, 2) the bottom portal displays outgoing containers designated for all other bays, 3) batches can be managed in the Batch portal on the right side of the screen:



The screenshot displays the 'Assign Containers to Station' and 'Join Containers in Stations' tabs. It includes summary boxes for CHGB/BBA values and a table of incoming containers. Below is a table of outgoing containers with various status and location columns.

| | All | Uncovered | Limit |
|-------|-------|-----------|-------|
| PE-CI | 0.000 | 0.000 | 340 |
| FGE | 0.000 | 0.000 | 200 |
| RCRA | 4.5 | | 10 |

| | All | Uncovered | Limit |
|-------|-----|-----------|-------|
| PE-CI | | | 340 |
| FGE | | | 200 |
| RCRA | | | 45 |

| Cover | Container ID | MT PI | Vol. | Type | Is Box | RC RA | NC PI | PE-CI | FGE | Stream | Waste Type | Area |
|--------------------------|--------------|-------|------|---------|-------------------------------------|-------|-------|-------|-------|----------------|------------|------|
| <input type="checkbox"/> | X10C9311419 | | .325 | 79galOP | <input checked="" type="checkbox"/> | | | 0.000 | 0.000 | OR-ISTP-CH-HET | CHGB | Move |
| <input type="checkbox"/> | X10C9312531 | | .325 | 79galOP | <input checked="" type="checkbox"/> | | | 0.000 | 0.000 | OR-GENR-CH- | CHGB | Move |
| <input type="checkbox"/> | X10C9400120 | | .325 | 79galOP | <input checked="" type="checkbox"/> | | | 0.000 | 0.000 | OR-ISTP-CH-HET | CHGB | Move |
| <input type="checkbox"/> | LET001 | | 0 | Boxfibr | <input type="checkbox"/> | | | | | | BBA | Move |

| Cover | Container ID | MT PI | Vol. | Contr Type | Count | RC RA | NC PI | Values IN PE-CI | FGE | Waste Stream | To CHGB/BBA PE-CI | FGE | Port /Bay | Assign to Batch |
|--------------------------|--------------|-------|------|------------|--------|-------|-------|-----------------|-------|--------------|-------------------|-------|-----------|-----------------|
| <input type="checkbox"/> | X10C0502701 | | .416 | DRUM110 | Join 3 | | | 0.000 | 0.000 | Various | 0.000 | 0.000 | Overpack | Move |
| <input type="checkbox"/> | X10C9311419A | | .325 | DRUM55 | Join 1 | | | 0.000 | 0.000 | OR-ISTP- | | | GB2 | Move |
| <input type="checkbox"/> | X10C9312531A | | .325 | DRUM55 | Join 1 | | | 0.000 | 0.000 | OR-GENR- | | | GB3 | Move |

Update Screen Values

The **Update Screen Values** button is used to recalculate the values shown on the screen after a move or join is initiated or following the assignment of a container to a station or bay.

View

The **View** button (both center and bottom sections) displays the corresponding Container Record in the **Containers (Detail View)**. See **Section 7.1**.

Move

The **Move** button (both center and bottom sections) initiates the *Container Process Change* function to enable a user to change the container process. (For a container process requiring a move, a Move ID is created.) In addition to the process described in **Section 6.1.2 Initiate Process Change/Move**, incoming containers require a decision to be made by the user. If the container is completely processed (including its puck), it should be closed out rather than moved.




Close Out Option

Do you wish to close out Container ID X10C9400120 or make a process change/move?


Buttons: Cancel, Move, Close Out

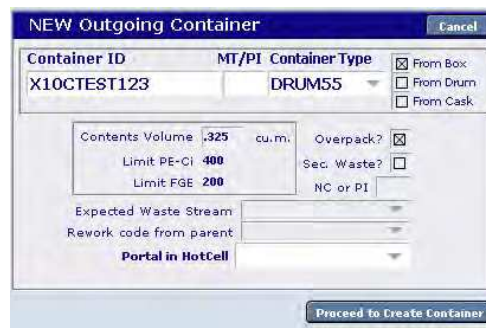
If the Close Out button is selected, the container is removed from all areas for inventory purposes. If the user cancels the process, no change is made and the record remains in the GB or BBA. Otherwise the Move process is initiated.

Add another Batch to the List

The **Add another Batch to the List**  button creates a new Batch ID (sequentially numbered) but DOES NOT assign containers to the new batch. Containers are added by assigning an available batch number by clicking the **Assign to Batch** field in the container record in the bottom panel.

Insert a new container into Outgoing Port/Bay


The **Insert a new container into Outgoing Port/Bay**  button creates a new outgoing container into the CHGB. The process of container creation is verified by dual entry, as discussed in **Section 6.1.1 Create New Container Record**. Following ID verification, a separate window will pop up to allow the user to create the Container ID and other Container-related information. The screen allows the user to place the container in the appropriate station or bay and to assign the container to a specific batch (when batches are available).

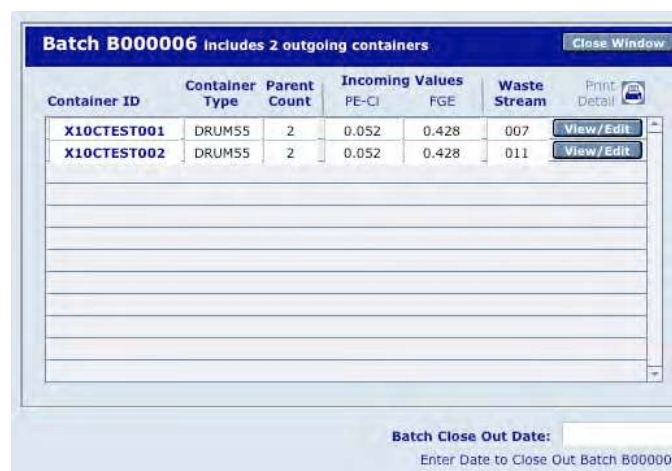


The dialog box titled "NEW Outgoing Container" contains the following fields and controls:



- Container ID:** X10CTEST123
- MT/PI:** (empty)
- Container Type:** DRUM55
- From Box:** ☒
- From Drum:** ☐
- From Cask:** ☐
- Contents Volume:** .325 cu.m.
- Limit PE-Ci:** 400
- Limit FGE:** 200
- Overpack?:** ☒
- Sec. Waste?:** ☐
- NC or PI:** (empty)
- Expected Waste Stream:** (dropdown menu)
- Rework code from parent:** (dropdown menu)
- Portal in HotCell:** (dropdown menu)
- Buttons:** Cancel, Proceed to Create Container

9.2.1 View Batch


The **View/Edit**  button in the batch portal bring up a new window displaying the Container ID, Container Type, Parent Count, Incoming PE-Ci and FGE Values and Print Detail option for the corresponding Batch ID. Use the vertical scroll bar (right side) to access records outside the portal view:



The window titled "Batch B000006 Includes 2 outgoing containers" displays a table of outgoing containers. The table has the following columns: Container ID, Container Type, Parent Count, Incoming Values (PE-Ci, FGE), Waste Stream, and Print Detail. The data rows are:

| Container ID | Container Type | Parent Count | PE-Ci | FGE | Waste Stream | Print Detail |
|--------------|----------------|--------------|-------|-------|--------------|---|
| X10CTEST001 | DRUM55 | 2 | 0.052 | 0.428 | 007 |  |
| X10CTEST002 | DRUM55 | 2 | 0.052 | 0.428 | 011 |  |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

At the bottom of the window, there is a "Batch Close Out Date:" field with a text input and a label "Enter Date to Close Out Batch B000006".

The **View/Edit**  button on each row changes the window to display the incoming containers joined to the selected container of that row. See **Section 8.2.2 JOIN Source Containers** (below).

The **Print Detail** button creates a separate, viewable document that summarizes the outgoing container values and related incoming containers. All containers in the batch are summarized in the report. See **Section 13.5 Batch Detail Report** for a layout example.

Clicking the **Batch Close Out Date** field will initiate the process of closing out the batch. Closing out the batch will remove the status of the ports for all incoming containers that relate to the batch. However, it will not remove the containers from the CHGB. To close out containers, select and move them in *the Assign Containers to Station* tab.

9.2.2 JOIN Source Containers

The **Join** button, in the center of the lower section of the **Join Containers in Stations** tab layout, initiates the **JOIN Source Containers** process:

| OUTGOING | | MT | Contnr | RC NC | | Values IN | | Waste | | To CHGB/BBA | | Port | Assign to | | |
|----------------------|--------------------------|--------------|--------|---------|----------------------|-----------|-------------------------------------|-------|-------|-------------|------|-------|-----------|----------|----------------------|
| Cover | Container ID | PI | Vol. | Type | Count | RA | PI | PE-CI | FGE | Stream | Type | PE-CI | FGE | /Bay | Batch |
| View | <input type="checkbox"/> | X10C0502701 | .416 | DRUM110 | Join | 3 | <input type="checkbox"/> | 0.000 | 0.000 | Various | | 0.000 | 0.000 | Overpack | Move |
| View | <input type="checkbox"/> | X10C9311419A | .325 | DRUM55 | Join | 1 | <input checked="" type="checkbox"/> | 0.000 | 0.000 | OR-ISTP- | | | | GB2 | Move |
| View | <input type="checkbox"/> | X10C9312531A | .325 | DRUM55 | Join | 1 | <input checked="" type="checkbox"/> | 0.000 | 0.000 | OR-GENR- | | | | GB3 | Move |

The button also serves to display incoming containers that were joined previously to the outgoing container. Upon clicking the button, the **JOIN Source Containers** screen opens in a new window including a portal of joined containers, if any. Use the vertical scroll bar (right side) to access records outside the portal view.

JOIN Source Containers to X10C0502701 in CHGB

| Container ID | Container | Is Is | Values IN | Values Calc'd | RC NC | Waste | Type |
|--------------|-----------|--------------------------|-----------|---------------|-------|-------|----------------|
| | Type | Box Cask | PE-CI | FGE | PE-CI | FGE | Stream |
| X10C9311419 | 79galOP | <input type="checkbox"/> | 0.000 | 0.000 | 0.000 | 0.000 | OR-ISTP-CH-HET |
| CHGB | Note | | | | | | |
| X10C9312531 | 79galOP | <input type="checkbox"/> | 0.000 | 0.000 | 0.000 | 0.000 | OR-GENR-CH-HET |
| CHGB | Note | | | | | | |
| X10C9312923 | 79galOP | <input type="checkbox"/> | 0.002 | 0.000 | 0.000 | 0.000 | OR-ISTP-CH-HET |
| CLOSED OUT | Note | | | | | | |

Join an additional container to X10C0502701

Resulting Values

Created from:

Box ☐ Current PE-CI: 0.00002

Drum ☒ Current FGE: 0.00000

Cask ☐ Current RCRA: ☐ DrEq 2

Volume: .416

Assigned to Batch:

based on batching 0 containers

Joining to Daughter Container:

X10C0502701

Container Type: DRUM110 Secondary: ☒

Waste Stream: Various


Treated PI from:

PI or NC: PI type:

Waste Type: PCB: ☐


As each container is added to the join layout, the *Resulting Values* will calculate, accordingly. In addition, whenever contents from incoming containers require that the outgoing container be characterized as **RCRA** or **NC/PI** (Non-conforming or Prohibited Items), the user can manually select the respective fields. The user can also select an indicator that the container was created from a Box or from a Drum.

Join an additional container to ...

The **Join an additional container to <container ID>**  button creates a new incoming container record in the portal, attaching its values to the outgoing container. Once the new record is created, clicking on the Container ID field displays a drop down list of available containers to add:

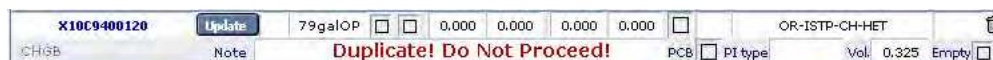


When a container is added, the system prompts the user with an “UPDATE VALUES TO INSURE ACCURACY” message over the Note field:



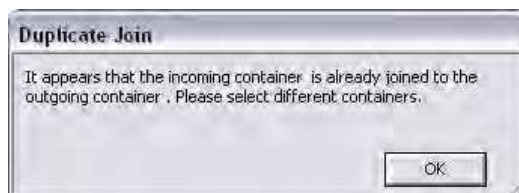
| Container ID | Container Type | Is Box | Is Cask | Values IN | Values Calc'd | RC | NC | RA | PI | Waste Stream | Type |
|--------------|----------------|--------------------------|--------------------------|-----------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------|---|
| X10C9311419 | CHGB | <input type="checkbox"/> | <input type="checkbox"/> | 79galOP | 0.000 0.000 0.000 0.000 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | OR-ISTP-CH-HET | Vol. 0.325 Empty <input type="checkbox"/> |
| X10C9312531 | CHGB | <input type="checkbox"/> | <input type="checkbox"/> | 79galOP | 0.000 0.000 0.000 0.000 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | OR-GENR-CH-HET | Vol. 0.325 Empty <input type="checkbox"/> |

If a duplicate Container ID is added to the batch, the system warns the user with a red “Duplicate! Do Not Proceed!” message over the Note field:




| Container ID | Container Type | Is Box | Is Cask | Values IN | Values Calc'd | RC | NC | RA | PI | Waste Stream | Type |
|--------------|----------------|--------------------------|--------------------------|-----------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------|---|
| X10C9400120 | CHGB | <input type="checkbox"/> | <input type="checkbox"/> | 79galOP | 0.000 0.000 0.000 0.000 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | OR-ISTP-CH-HET | Vol. 0.325 Empty <input type="checkbox"/> |

The following dialog is also displayed:




Modifiable fields for incoming containers include the **Note** field and **Is Puck** and **Is Cask** checkboxes. Selecting the Is Puck check box will affect the amount of Activity assigned to the outgoing container as discussed at the end of this section.

Update

When a new Container record is added to the batch, the **Update >**  button will recalculate the *Resulting Values* section at the bottom of the screen to include the newly added container.


Remove

To remove a container, click the Trash Can  to delete the corresponding container from the JOIN table. **NOTE:** This action DOES NOT delete the permanent container record from WICS. This only removes it from the JOIN table.



When a container is deleted from the Join Table, the system prompts the user with an “UPDATE VALUES TO ASSURE ACCURACY” message for each of the remaining containers in the JOIN table.

Done

All Joins of incoming to outgoing containers are saved automatically. However, when finished with adding and adjusting joined containers, click the **Done**  button.

Upon joining containers, WICS attempts to transfer additional information from the originating or parent containers to the outgoing container. This information includes:

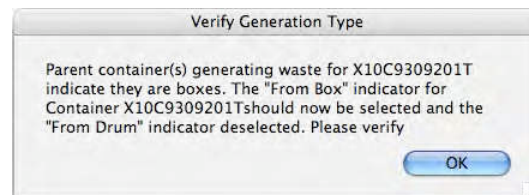
- Originating WNCR or OPIP container
- EPA codes (for outgoing Macro containers, only)
- PCB data
- Origin Date (which corresponds to the RCRA date)
- Asbestos data
- Waste Stream

Clicking this button will also evaluate the incoming and outgoing containers for a mismatch in container waste stream.

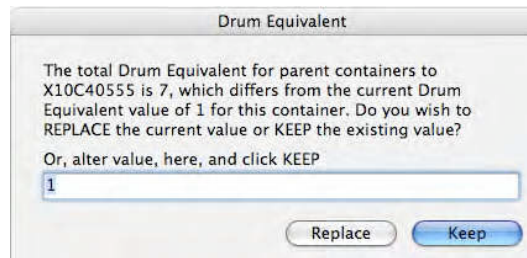


If it finds a variation in waste streams, the user is alerted. The user has an option to review the joined containers prior to the window closing.

The “Created from Box or Drum” indicator of the outgoing container is also evaluated. Upon evaluation, WICS will attempt to enter the indicator based on the box status of the first parent container in the join. Based on that attempt, WICS will alert the user regarding the entry. At any time, Entry or Administrative users can override the WICS entry by checking the desired indicator in the Container’s record.



When the sum of the drum equivalent for the parent containers differs from the drum equivalent of the outgoing daughter container, a dialog box will alert the user to the mismatch and provide options to alter or keep the daughter container value.



Assignment of Radiation Values for Joined Containers

Upon joining, container activity from the incoming container is assigned to the outgoing container according to CH-UET-OP-014, Waste and Activity Inventory Control. When daughter container is designated as “PI”, 1% of the parent container’s rad activity is joined with the daughter container.

System Allocation of Joined Containers

When a batch is closed, the batched containers are removed from the Port or Bay but not from the CHGB (GB Area): The physical move for these containers happens via a container process change. All radiation values remain in the GB Area until the process change/move is accomplished.

When a container is closed out as a Puck, the container values and references are removed from current processing. The original container ID remains in the system for historical reference but it can no longer be joined in the processing area to outgoing containers.

10.0 HOT CELL ACTIVITIES

The **HotCell Activities** layout incorporates all containers currently in inventory within the HotCell (Area ID AR0012).



Within this layout, a summary of the current area inventory values displays to determine the effect of Hot Cell processes on Area Inventory limits. Containers within the HotCell can be “Covered” to omit the PE-Ci and FGE values from the HotCell area inventory. However, all values, including covered and uncovered containers, will add activity to the group within which the HotCell resides (if designated within the Areas setup table, see Section 5.1.2 in this document). Clicking the “Cover” checkbox on any container row, then clicking the Update Screen Values, adjusts the activity for the HotCell.

Join Containers in Stations

| HotCell Values | | | | | | | | | | Rm231 Group | | Update Screen Values |
|----------------|--------|-----------|-------|-----|-------|-----------|-------|---------|-------|-------------|-------|----------------------|
| | All | Uncovered | Limit | | All | Uncovered | Limit | Current | Limit | | | |
| PE-Ci | 46.161 | 0.000 | 340 | FGE | 0.181 | 0.000 | 200 | RCRA | 18.9 | 70 | PE-Ci | |

| INCOMING | | | | | | | | | | | | | |
|--------------------------|--------------|------|----------------|-------------------------------------|--------------------------|-------|-------|-------|-------|----------------|------------|---------|--|
| Cover | Container ID | Vol. | Container Type | Is Cask | Is Box | RC RA | NC PI | PE-Ci | FGE | Waste Stream | Waste Type | Area | Portal |
| <input type="checkbox"/> | X10C0402982 | 1.66 | RH4 Cask | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | 0.000 | 0.000 | OR-REDC-RH-HET | | HotCell | Incoming <input type="button" value="Move"/> |

| OUTGOING | | | | | | | | | | | | | |
|-------------------------------------|--------------|------|----------------|--------|-------------------------------------|-------|-----------------|-------|----------------|------------|-------------------------|-------|--|
| Cover | Container ID | Vol. | Container Type | Count | RC RA | NC PI | Values IN PE-Ci | FGE | Waste Stream | Waste Type | Values to HotCell PE-Ci | FGE | Portal |
| <input checked="" type="checkbox"/> | ORRH00005 | .266 | DRUM55 | Join 1 | <input checked="" type="checkbox"/> | | 4.795 | 0.047 | OR-REDC-RH-HET | | 0.000 | 0.000 | Outgoing <input type="button" value="Move"/> |
| <input checked="" type="checkbox"/> | ORRH00008 | .21 | DRUM55 | Join 1 | <input checked="" type="checkbox"/> | | 2.195 | 0.022 | OR-REDC-RH-HET | | 0.000 | 0.000 | Outgoing <input type="button" value="Move"/> |
| <input checked="" type="checkbox"/> | ORRH00009 | .21 | DRUM55 | Join 1 | <input checked="" type="checkbox"/> | | 2.195 | 0.022 | OR-REDC-RH-HET | | 0.000 | 0.000 | Outgoing <input type="button" value="Move"/> |
| <input checked="" type="checkbox"/> | ORRH00019 | .205 | DRUM55 | Join 2 | <input checked="" type="checkbox"/> | | 2.241 | 0.022 | OR-REDC-RH-HET | | 0.000 | 0.000 | Outgoing <input type="button" value="Move"/> |
| <input checked="" type="checkbox"/> | ORRH00646 | 0.0 | DRUM55 | Join 2 | <input checked="" type="checkbox"/> | | 6.610 | 0.013 | OR-REDC-RH-HET | | 0.000 | 0.000 | Outgoing <input type="button" value="Move"/> |

Insert a new Outgoing container

| OUTGOING 72-B CASK | | | | | | | | | | | | | |
|-------------------------------------|--------------|------|----------------|--------|-------------------------------------|-------|-----------------|-------|----------------|------------|-------------------------|-------|---|
| Cover | Container ID | Vol. | Container Type | Count | RC RA | NC PI | Values IN PE-Ci | FGE | Waste Stream | Waste Type | Values to HotCell PE-Ci | FGE | Portal |
| <input checked="" type="checkbox"/> | OR0069 | 0 | RH72B | Join 0 | <input checked="" type="checkbox"/> | | | | OR-REDC-RH-HET | TRU | 0.000 | 0.000 | 72-B Cask <input type="button" value="Move"/> |
| <input checked="" type="checkbox"/> | OR0070 | 0.1 | RH72B | Join 3 | <input checked="" type="checkbox"/> | | 1.014 | 0.001 | OR-REDC-RH-HET | TRU | 0.000 | 0.000 | 72-B Cask <input type="button" value="Move"/> |

Insert a new 72-B Cask

The HotCell Activities layout displays three primary portals to allow joining of parent to daughter container relationships.

10.1 Assign containers to HotCell portals

Containers can be input into three unique HotCell portals: Incoming, Outgoing and Outgoing 72-B Cask.

Incoming containers are automatically assigned to the Incoming portal upon movement of a container into the HotCell. The Incoming portal is designated to containers that will serve as Parents to outgoing daughter containers.

To create a container to the Outgoing or Outgoing 72-B Cask portals, a qualified user clicks the Insert button associated to the desired portal.

Upon creating a new Container ID, WICS automatically assigns the container type and portal to the container. The user can override any of the fields for the container prior to completing the process. Or, the user can cancel the process by clicking the Cancel button.

NEW Outgoing Container


| | | | |
|--------------|-------|----------------|---|
| Container ID | MT/PI | Container Type | <input checked="" type="checkbox"/> From Box: <input type="checkbox"/> From Drum <input type="checkbox"/> From Cask |
| X10C12345 | | DRUM55 | |

| | | | |
|-----------------|-------|-------------|--------------------------|
| Contents Volume | cu.m. | Overpack? | <input type="checkbox"/> |
| Limit PE-Ci | 400 | Sec. Waste? | <input type="checkbox"/> |
| Limit FGE | 200 | NC or PI | |

| | |
|-------------------------|----------|
| Expected Waste Stream | |
| Rework code from parent | |
| Portal in HotCell | Outgoing |

When the Proceed to Create Container  button is clicked, the container will display in the correct portal.

10.2 Join containers within the HotCell

Daughter containers selected from either the Outgoing or Outgoing 72-B Cask portals can be joined to parents by clicking the Join  button within the Container's row in the portal.

Joining containers within the HotCell follows the same process as described in Section 9.2.2, JOIN Source Containers.

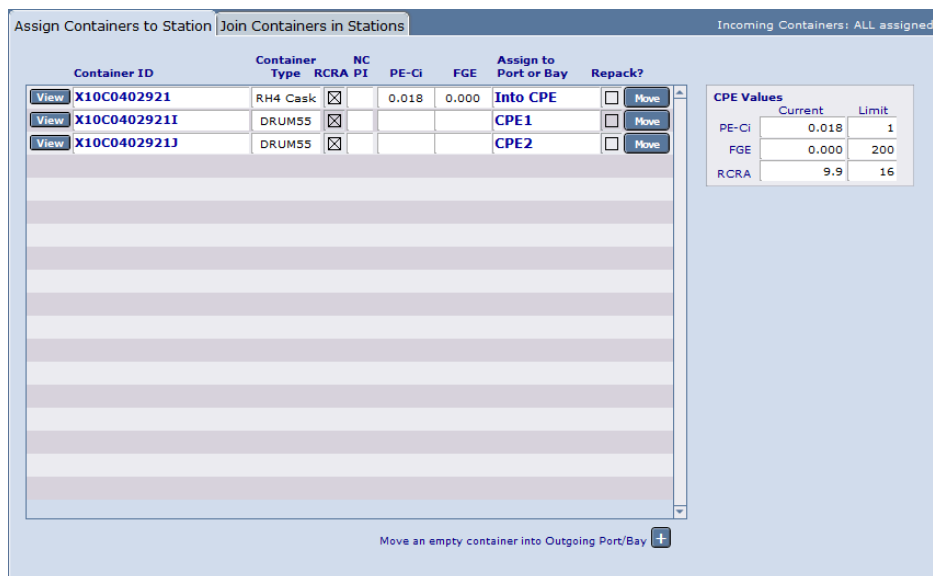
11.0 CPE ACTIVITIES

The **CPE Activities** screen incorporates container processing activities within the Cask Processing Enclosure (CPE). The CPE Activities layout provides tabs to *Assign Containers to Station* and *Join Containers in Stations*.




11.1 Assign Containers to Station

Under *Assign Containers to Station*, containers can be assigned to bays or ports within the CPE. To the right of the tabs is an indicator of the number of containers within CPE inventory that have not yet been assigned to a bay or port. Current area inventory values are displayed on both tabs to demonstrate the effects of CPE processes on Area Inventory limits.



| Container ID | Container Type | RCRA PI | NC | PE-CI | FGE | Assign to Port or Bay | Repack? |
|-----------------------------------|----------------|-------------------------------------|----|-------|-------|-----------------------|-------------------------------|
| View X10C0402921 | RH4 Cask | <input checked="" type="checkbox"/> | | 0.018 | 0.000 | Into CPE | <input type="checkbox"/> Move |
| View X10C0402921I | DRUM55 | <input checked="" type="checkbox"/> | | | | CPE1 | <input type="checkbox"/> Move |
| View X10C0402921J | DRUM55 | <input checked="" type="checkbox"/> | | | | CPE2 | <input type="checkbox"/> Move |

| | Current | Limit |
|-------|---------|-------|
| PE-CI | 0.018 | 1 |
| FGE | 0.000 | 200 |
| RCRA | 9.9 | 16 |

Move an empty container into Outgoing Port/Bay 


To assign a container to a specific port or bay, the user clicks on the **Assign to Port or Bay** field in the selected container row. A drop down list of available choices is presented, enabling selection of *Into CPE*, *CPE1* or *CPE2*. Clicking on the desired value enters it into this field. Incoming containers should be assigned to the *Into CPE* ports. Outgoing containers should be assigned to either the *CPE1* or *CPE2* bays. By assigning outgoing containers to one of these bays, they are ready to accept incoming values..

Use the vertical scroll bar (right side) to access records outside the portal view.

View

The **View**  button opens the corresponding Container Record and displays it in **Containers Detail View** screen. See **Section 6.1 Containers (Detail View)**.

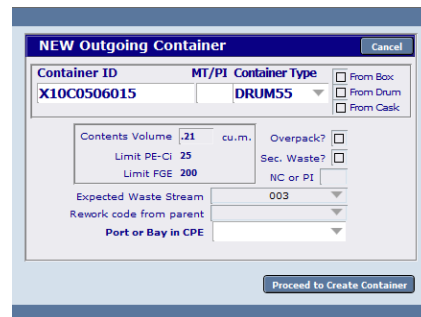
Move

The **Move**  button is used to change the container to a new process outside of the CPE. Refer to **Section 6.1.2 Initiate Process Change/Move** for detailed instructions on this procedure.

Insert a new container into Outgoing Port/Bay

The **Insert a new container into Outgoing Port/Bay**  button creates a new container.

The process of container creation is verified by dual entry, as discussed in **Section 6.1.1 Create New Container Record**. Following ID verification, a separate window will pop up to allow the user to create the Container ID. Upon selecting the Container Type, information set up in the Container Type setup table will be displayed. The **From Box**, **From Drum**, or **From Cask** indicator may be selected. For more information about setup, see **5.1.1.1 Container Types** in this document. **Overpack** or **Secondary Waste** designations can be selected for the newly created container by entering or selecting data within the appropriate boxes and fields.



The screenshot shows a web form titled "NEW Outgoing Container". It includes fields for "Container ID" (X10C0506015), "MT/PI" (DRUM55), and "Container Type" (From Box, From Drum, From Cask). There are also checkboxes for "Overpack?", "Sec. Waste?", and "NC or PI". A dropdown menu for "Expected Waste Stream" is set to "003". A "Rework code from parent" field is empty. A "Port or Bay in CPE" dropdown is at the bottom. A "Proceed to Create Container" button is at the bottom right.

This screen allows the user to place the container in the appropriate station or bay and to assign the container to a specific batch (when batches are available) by clicking into the respective field for drop down lists.

11.2 Join Containers in Stations

The *Join Containers in Stations* layout facilitates containers being viewed, moved and joined with automatic calculations of resulting values.



The screenshot displays the 'Assign Containers to Station' tab. It includes a 'CPE Values' table, an 'Enclosing Areas' table, and two main data tables: 'INCOMING' and 'OUTGOING'.

| | All | Uncovered | Limit |
|-------|-------|-----------|-------|
| PE-CI | 0.018 | 0.018 | 1 |
| FGE | 0.000 | 0.000 | 200 |
| RCRA | 9.9 | | 16 |

| Crane Bay | DAC |
|-----------|-------------|
| PE-CI | Group PE-CI |
| 18.699 | 1526.516 |

| Cover | Container ID | MT | PI | Vol. | Type | Is Box | Is Cask | RC | NC | RA | PI | PE-CI | FGE | Stream | Type | Port / Bay |
|--------------------------|--------------|----|----|------|----------|--------------------------|-------------------------------------|----|----|----|----|-------|-------|----------------|------|------------|
| <input type="checkbox"/> | X10C0402921 | | | 1.66 | RH4 Cask | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | 0.018 | 0.000 | OR-REDC-RH-HET | | Into CPE |

| Cover | Container ID | MT | PI | Vol. | Type | Count | RC | NC | RA | PI | Values IN | PE-CI | FGE | Stream | Type | To CPE | PE-CI | FGE | Port / Bay |
|--------------------------|--------------|----|----|------|--------|-------|----|-------------------------------------|----|----|-----------|-------|-------|----------------|------|--------|-------|-----|------------|
| <input type="checkbox"/> | X10C0402921I | | | | DRUM55 | Join | 1 | <input checked="" type="checkbox"/> | | | | 0.018 | 0.000 | OR-REDC-RH-HET | | | | | CPE1 |
| <input type="checkbox"/> | X10C0402921J | | | | DRUM55 | Join | 1 | <input checked="" type="checkbox"/> | | | | 0.018 | 0.000 | OR-REDC-RH-HET | | | | | CPE2 |

Within this tab, Area limit summaries display radiological values attributed from CPE containers. Container activity sums to CPE, the Crane Bay and the DAC group, within which the CPE resides, if properly designated within the Areas setup table (see Section 5.1.2 in this document).

Upon port or bay selection, containers are available for recording CPE processes in the *Join Containers in Stations* tab view. Beyond the Area limit summaries, two primary portals are displayed: 1) The incoming container portal shows the containers assigned to the *Into CPE* portal. 2) The bottom portal displays outgoing containers designated for all CPE bays.

Update Screen Values

The **Update Screen Values** button is used to recalculate the values shown on the screen after a move or join is initiated or following the assignment of a container to a station or bay.

View

The **View** button (both center and bottom sections) displays the corresponding Container Record in the **Containers (Detail View)**. See Section 7.1.

Move

The **Move** button (both center and bottom sections) initiates the *Container Process Change* function to enable a user to change the container process. When a container process requires a move, a Move ID is created. In addition to the process described in Section 6.1.2 **Initiate Process Change/Move**, incoming containers require a decision to be made by the user. If the container is completely processed (including its puck), then it should be closed out rather than moved.



Close Out Option

Do you wish to close out Container ID X10C9400120 or make a process change/move?

When the Close Out button is selected, the container is removed from all areas for inventory purposes. If the user cancels the process, no change is made and the record remains in the CPE. Otherwise the Move process is initiated.

11.2.1 Joining containers within the CPE

Daughter containers selected from the Outgoing portals can be joined to parents by clicking the Join  button within the Container's row in the portal.

Joining containers within the CPE follows the same process as described in Section 9.2.2, JOIN Source Containers.

12.0 USER AND GROUP ADMINISTRATION (FILEMAKER)

WICS relies upon FileMaker's standard "Accounts & Privileges" toolset. Administrators can become proficient with this toolset by reading more in the FileMaker User's Manual and in the Transuranic Data Management System FileMaker Development Guidelines

WICS authenticates account by employing both FileMaker internal user accounts and external accounts administered by Active Directory employed by TWPC.

12.1 User Privilege Sets

Each account is assigned to a privilege set. WICS has established unique privilege sets to which a user may be assigned – Administrator, Analytical, SCO, Entry, Ops Data, Operator, Read Only, STP, and Shipping. Each of these privilege sets and their associated responsibilities, identified in Section 3 of CH-UET-OP-014, Waste and Activity Inventory Control, are discussed in Section 2.1, User Accounts, within this document.

12.2 Assigning Privilege Sets

The following accounts are pre-established within WICS and assigned to a privilege set (authenticating in the order in which they are listed):

| Account | Type | Privilege Set |
|-----------------|------------------------|---------------|
| WICS_Admin | Active Directory Group | Administrator |
| WICS_AKE | Active Directory Group | AKE |
| WICS_Analytical | Active Directory Group | Analytical |
| WICS_SCO | Active Directory Group | SCO |
| WICS_Entry | Active Directory Group | Entry |
| WICS_OpsData | Active Directory Group | Ops Data |
| WICS_Operator | Active Directory Group | Operator |
| WICS_ReadOnly | Active Directory Group | Read Only |
| WICS_STP | Active Directory Group | STP |
| WICS_Shipping | Active Directory Group | Shipping |
| Developer | FileMaker Internal | [Full Access] |

Administrator users and WICS developers can add FileMaker user accounts and their associated Privilege Sets. However, TWPC prefers the integration of users within Active Directory. Active Directory provides a toolset for adding users to any account in an Active Directory Group. These activities are independent of FileMaker. For additional information and instructions, refer to CM-M-BO-004, FileMaker User Administration Manual.

NOTE: MoveControl is preset to open using the Operator privilege set to assure automated functionality between this file and WICS. In addition, whenever Administrator or Developer users are added to WICS, they must also have matching accounts within MoveControl with the same authentication. Scripts in WICS will update MoveControl records, requiring these users be set up in advance.

13.0 APPENDIX (FORMS)

13.1 Container Movement Authorization Form



Container Movement Authorization Form

Move ID:
M0010573

CH-UET-OP-014 R4
Page 1 of 1

| | | | | |
|---|--|--|--|--------------------------|
| Action <input type="checkbox"/> Transfer to WPF <input type="checkbox"/> TRU Stage <input checked="" type="checkbox"/> Move Container(s) <input type="checkbox"/> Ship Offsite | | Containers X10C9311149A X10C9311149B X10C9311149C X10C9311149D | | Date 7/11/2011 |
| FROM BBA | | Notes Includes provisional inventory for Move IDs: M0010571 adding: FGE: 4.67E0 PE-Ci: 6.46E0 RCRA: 6 Container Count: 4 Active moves add 6.46E0 to group | | |
| PASS THRU AREAS None None None None | | | | |
| TO Rm231 | | | | |
| Affected Inventory Control Area | | | | |

Provisional Projected Totals

| Inventory Control Areas (“PT” = “Pass Through”) | Container Quantity Projected / Limit = 0% | RCRA Projected / Limit = 0% | FE-Ci Projected / Limit = 0% | FGE Projected / Limit = 0% |
|---|---|---|---|---|
| Move Container Count | <u>4</u> | <u>4</u> | <u>0.000</u> | <u>0.000</u> |
| PT None: | <u> </u> / <u> </u> = <u> </u> | <u> </u> / <u> </u> = <u> </u> | <u> </u> / <u> </u> = <u> </u> | <u> </u> / <u> </u> = <u> </u> |
| PT None: | <u> </u> / <u> </u> = <u> </u> | <u> </u> / <u> </u> = <u> </u> | <u> </u> / <u> </u> = <u> </u> | <u> </u> / <u> </u> = <u> </u> |
| PT None: | <u> </u> / <u> </u> = <u> </u> | <u> </u> / <u> </u> = <u> </u> | <u> </u> / <u> </u> = <u> </u> | <u> </u> / <u> </u> = <u> </u> |
| PT None: | <u> </u> / <u> </u> = <u> </u> | <u> </u> / <u> </u> = <u> </u> | <u> </u> / <u> </u> = <u> </u> | <u> </u> / <u> </u> = <u> </u> |
| Dest Rm231: | <u>85</u> / <u>7</u> = <u>0%</u> | <u>60.6</u> / <u>75</u> = <u>81%</u> | <u>1583.99</u> / <u>2500</u> = <u>63%</u> | <u>388.31</u> / <u>99999</u> = <u>0%</u> |
| Project Control Condition requiring Authorization | Container Quantity NONE | RCRA Quantity >80% | FE-Ci NONE | FGE NONE |

Required Signatures

| | | | | |
|--|----------------------------|---------------------------------|-----------|--|
| Inventory Coordinator | Brian Hughes | Signed | 7/11/2011 | Destination PCA Group PE-Ci Projected / Limit = 0% |
| | Inventory Coordinator Name | Inventory Coordinator Signature | Date: | |
| <input checked="" type="checkbox"/> OM | Anthony Presley | Phone Approval | 7/11/2011 | |
| | Operations Manager Name | Operations Manager Signature | Date: | PE-Ci (Group) NONE |
| <input type="checkbox"/> FM | N/A | | | |
| | Facilities Manager Name | Facilities Manager Signature | Date: | |




13.2 Process Report (By Container)

 **Process Report by Container** Page 1 of 560

Summary: 3467 containers | 1710 Incoming | 1748 outgoing | 993.25 m3 | 6743.48 drum equivalents

| Container ID | Process | Date IN | Date OUT | DR Number | DR Date | DR Validated | Records | Complete | TWPC Valid |
|----------------------|---------------|----------|------------|------------|---------|----------------------|-----------------|---------------|-------------------------------|
| X10C0000250AA | | | | | | | | | |
| | S-SHIP | 04/13/11 | 04/13/11 | | | | | 05/06/09 | 04/04/11 |
| ContainerType | DRUM55 | I/O O | Vol .1 | Waste Type | LLW | Proc ID 110413543751 | MoveID M0009522 | Ship 04/13/11 | Omit <input type="checkbox"/> |
| Notes: | | | | | | | | | |
| X10C0000250AE | | | | | | | | | |
| | S-CHMB | 02/22/11 | 04/12/11 | | | | | 05/07/09 | 04/04/11 |
| ContainerType | DRUM55 | I/O O | Vol .62306 | Waste Type | LLW | Proc ID 110222702171 | MoveID M0009092 | Ship 04/13/11 | Omit <input type="checkbox"/> |
| Notes: | | | | | | | | | |
| | S-SHIP | 04/12/11 | 04/13/11 | | | | | 05/07/09 | 04/04/11 |
| ContainerType | DRUM55 | I/O O | Vol .62306 | Waste Type | LLW | Proc ID 110412273841 | MoveID M0009501 | Ship 04/13/11 | Omit <input type="checkbox"/> |
| Notes: | | | | | | | | | |
| X10C0000250AG | | | | | | | | | |
| | S-SHIP | 05/24/11 | 05/24/11 | | | | | 05/07/09 | 06/15/11 |
| ContainerType | DRUM55 | I/O O | Vol .62306 | Waste Type | LLW | Proc ID 110524347841 | MoveID M0010070 | Ship 05/24/11 | Omit <input type="checkbox"/> |
| Notes: | | | | | | | | | |
| X10C0000250AJ | | | | | | | | | |
| | S-SHIP | 04/13/11 | 04/13/11 | | | | | 05/07/09 | 04/04/11 |
| ContainerType | DRUM55 | I/O O | Vol .62306 | Waste Type | LLW | Proc ID 110413543751 | MoveID M0009522 | Ship 04/13/11 | Omit <input type="checkbox"/> |
| Notes: | | | | | | | | | |

13.3 Process Report (By Date Out)

 **Process Report by Date Out** Page 1 of 517

Summary: 3467 containers | 1710 Incoming | 1748 outgoing | 993.25 m3 | 6743.48 drum equivalents

| Container ID | Process | Date IN | Date OUT | DR Number | DR Date | DR Validated | Records | Complete | TWPC Valid |
|---------------------|------------|----------|-----------|------------|---------|----------------------|-----------------|---------------|-------------------------------|
| DR Validated | | | | | | | | | |
| X10C0011371 | Repack (B) | 07/18/11 | | | | | | | |
| ContainerType | DRUM55 | I/O I | Vol .21 | Waste Type | | Proc ID 110718712731 | MoveID M0010724 | Ship 07/19/11 | Omit <input type="checkbox"/> |
| Notes: | | | | | | | | | |
| X10C0402989CS | VEL-GB | 05/02/11 | | | | | | 06/07/10 | |
| ContainerType | DRUM55 | I/O O | Vol .14 | Waste Type | | Proc ID 110502310401 | MoveID M0009710 | Ship 05/02/11 | Omit <input type="checkbox"/> |
| Notes: | | | | | | | | | |
| X10C0501539 | Repack | 07/01/11 | | | | | | 09/30/07 | |
| ContainerType | DRUM55 | I/O O | Vol .1278 | Waste Type | LLW | Proc ID 11070171861 | MoveID M0010438 | Ship 07/06/11 | Omit <input type="checkbox"/> |
| Notes: | | | | | | | | | |
| X10C0501832B | Repack | 06/30/11 | | | | | | 11/15/08 | |
| ContainerType | DRUM55 | I/O O | Vol .0315 | Waste Type | LLW | Proc ID 110630381991 | MoveID M0010420 | Ship 07/01/11 | Omit <input type="checkbox"/> |
| Notes: | | | | | | | | | |
| X10C0502696 | Repack (B) | 07/20/11 | | | | | | 07/19/11 | |
| ContainerType | DRUM110 | I/O O | Vol 0 | Waste Type | | Proc ID 110720727241 | MoveID M0010796 | Ship 07/21/11 | Omit <input type="checkbox"/> |
| Notes: | | | | | | | | | |
| X10C9306659 | VEL-GB | 04/11/11 | | | | | | | |
| ContainerType | DRUM55 | I/O I | Vol .21 | Waste Type | | Proc ID 110411455161 | MoveID M0009481 | Ship 04/12/11 | Omit <input type="checkbox"/> |
| Notes: | | | | | | | | | |

13.4 Process Report (By Process)



Page 1 of 509

Process Report by Process

Summary: 3467 containers | 1710 incoming | 1748 outgoing | 993.25 m3 | 6743.48 drum equivalents

| Container ID | Process | Date IN | Date OUT | DR Number | DR Date | DR Validated | Records | Complete | TWPC Valid |
|----------------|---------|----------|----------|-------------|---------|--------------|---------|----------|-------------------------------|
| FlamGas | | | | | | | | | |
| X10C0501705 | FlamGas | 01/13/11 | 01/13/11 | CR11FG4001 | | | | C9/30/07 | |
| Container-Type | DRUM55 | I/O | O | Vol | .21 | Waste Type | TRU | Proc ID | 110113632641 |
| MoveID | | | | | | | | Ship | C6/13/11 |
| Notes: | | | | | | | | | Omit <input type="checkbox"/> |
| X10C9602104G | FlamGas | 01/13/11 | 01/13/11 | CR11FG4001 | | | | C5/13/10 | |
| Container-Type | DRUM55 | I/O | O | Vol | .2 | Waste Type | LLW | Proc ID | 110113632641 |
| MoveID | | | | | | | | Ship | C4/28/11 |
| Notes: | | | | | | | | | Omit <input type="checkbox"/> |
| X10C9602104N | FlamGas | 01/13/11 | 01/13/11 | CR11FG4001 | | | | C5/14/10 | |
| Container-Type | DRUM55 | I/O | O | Vol | .2 | Waste Type | LLW | Proc ID | 110113632641 |
| MoveID | | | | | | | | Ship | C4/28/11 |
| Notes: | | | | | | | | | Omit <input type="checkbox"/> |
| X10C9602104J | FlamGas | 01/20/11 | 01/20/11 | CR11FG11005 | | | | C5/13/10 | |
| Container-Type | DRUM55 | I/O | O | Vol | .2 | Waste Type | LLW | Proc ID | 110120624161 |
| MoveID | | | | | | | | Ship | C7/12/11 |
| Notes: | | | | | | | | | Omit <input type="checkbox"/> |
| X10C9602104R | FlamGas | 01/20/11 | 01/20/11 | CR11FG11005 | | | | C5/14/10 | |
| Container-Type | DRUM55 | I/O | O | Vol | .2 | Waste Type | LLW | Proc ID | 110120624161 |
| MoveID | | | | | | | | Ship | C7/12/11 |
| Notes: | | | | | | | | | Omit <input type="checkbox"/> |
| X10C0501419A | FlamGas | 01/25/11 | 01/25/11 | CR11FG11006 | | | | 10/28/10 | |
| Container-Type | DRUM55 | I/O | O | Vol | .1939 | Waste Type | LLW | Proc ID | 110125601361 |
| MoveID | | | | | | | | Ship | C7/07/11 |
| Notes: | | | | | | | | | Omit <input type="checkbox"/> |

13.5 Batch Detail Report



Batch Detail

Page 1

Printed by: developer

Printed on: 11/7/2011 at 2:10 PM

| Container ID | Container Type | Incoming Values | | Calculated Values | | RCRA Dr Eq | RC RA | NC PI | Waste Stream | Waste Type |
|--|----------------|-----------------|---------|-------------------|---------|------------|--------------------------|-------|--------------|----------------------|
| | | PE-CI | FGE | PE-CI | FGE | | | | | |
| Batch ID B000006> includes 3 outgoing containers | | | | | | | | | | Batch closed: |
| Outgoing | | | | | | | | | | |
| X10C0501970 | MEBOX | | | 2.79E-1 | 0 | 13.3 | <input type="checkbox"/> | | OR-RF- | LLW |
| Incoming | | | | | | | | | | |
| X10C9311144LC1 | MEBOX | 4.18E-1 | 3.63E+1 | 1.39E-1 | 1.21E+1 | | <input type="checkbox"/> | | OR-RF- | |
| Puck <input type="checkbox"/> | Note | | | | | | | | | |
| Incoming | | | | | | | | | | |
| X10C9311144LC2 | MEBOX | 4.18E-1 | 3.63E+1 | 1.39E-1 | 1.21E+1 | | <input type="checkbox"/> | | OR-RF- | |
| Puck <input type="checkbox"/> | Note | | | | | | | | | |
| Outgoing | | | | | | | | | | |
| X10C9311144LC1 | BOXGEN | | | 4.18E-1 | 0 | | <input type="checkbox"/> | | OR-RF- | |
| Incoming | | | | | | | | | | |
| X10C9311144 | BOXGEN | 1.25E0 | 1.09E+2 | 4.18E-1 | 3.63E+1 | 26 | <input type="checkbox"/> | | OR-RF- | |
| Puck <input type="checkbox"/> | Note | | | | | | | | | |
| Outgoing | | | | | | | | | | |
| X10C9311144LC2 | BOXGEN | | | 4.18E-1 | 0 | | <input type="checkbox"/> | | OR-RF- | |
| Incoming | | | | | | | | | | |
| X10C9311144 | BOXGEN | 1.25E0 | 1.09E+2 | 4.18E-1 | 3.63E+1 | 26 | <input type="checkbox"/> | | OR-RF- | |
| Puck <input type="checkbox"/> | Note | | | | | | | | | |



13.6 Attachment G: PE-Ci and FGE Conversion Worksheet, NDA Data (from WICS)

Attachment G:
PE-Ci and FGE Conversion Worksheet
IQ3 DataCH-UET-OP-014 R4
Page 1 of 1

Container: **X10C9313010A**
User: Amanda Ping
Entry Date: 10/17/2011
Waste Stream: OR-RADP-CH-HET
NDA BDR #: WAI-IQ3-110628-1

RCRA: ☒
PCB: ☐
Waste Type: TRU

Gross Wt (kg):
Tare Wt (kg):
Net Wt (kg): 13.8

***** 9 isotopes entered with activity *****

| ISO_ID | Activity (Ci) | TRU | PE-Ci | FGE Pu-239 |
|--------|---------------|-------------------------------------|------------|------------|
| Am-241 | 3.12E-1 | <input checked="" type="checkbox"/> | 3.1812E-1 | 1.7059E-3 |
| Am-243 | 1.37E-3 | <input checked="" type="checkbox"/> | 1.3969E-3 | 8.8534E-5 |
| Cf-249 | 3.63E-4 | <input checked="" type="checkbox"/> | 3.9147E-4 | 3.985E-3 |
| Cm-243 | 5.48E-4 | <input checked="" type="checkbox"/> | 3.7608E-4 | 5.3113E-5 |
| Cs-137 | 2.08E-6 | <input type="checkbox"/> | 1.3051E-10 | 0 |
| Np-237 | 2.42E-6 | <input checked="" type="checkbox"/> | 2.3251E-6 | 5.1501E-5 |
| Pu-239 | 5.19E-1 | <input checked="" type="checkbox"/> | 5.19E-1 | 8.3728E0 |
| Sr-90 | 2.08E-6 | <input type="checkbox"/> | 5.302E-9 | 0 |
| U-232 | 6.31E-7 | <input type="checkbox"/> | 8.2896E-7 | 0 |

| | PE-Ci | FGE Pu-239 |
|-------------|-----------|------------|
| NDA Totals: | 8.3929E-1 | 1.13E+1 |

| | |
|-------------------------|-------------------|
| PU-239 FGE from NDA BDR | FGE TMU (1 sigma) |
| 8.26E0 | 1.53E0 |

For reference only. Contact DCRM or see container traveler for original.

Name

Signature

Date

Originally input into WICS by Amanda Ping on 10/17/2011

Printed on 3/14/2013 at 7:23 PM
by Developer

13.7 Print Container Detail


| | | | | | | | | |
|--|--|--|-----|--|----------------|------|-------------------------------|-------------------------------------|
| | | Contract Detail for X10C9313010A | | Page 1 of 1 Printed by: Developer Printed on: 3/14/2013 at 1:16 PM | | | | |
| | | Waste Type | IRU | Stream | OR-RADP-C4-HET | Sec7 | <input type="checkbox"/> NLCA | <input checked="" type="checkbox"/> |

| | | | | | | | | | | | | | |
|----------------|---|--------|--------------------------|--------------------------|--------------------------|-------------------------------------|---------------------------------|---------|-----------------|------|-------------------------------------|-----------|------------|
| Open WNCR | | Task | <input type="checkbox"/> | Ovr Lid | <input type="checkbox"/> | RCRA | Current Area and Process Status | | Waste From | Box | <input type="checkbox"/> | On Site | |
| Container type | | Box | <input type="checkbox"/> | PK Rst | 7A | Vol. | Area | Process | Process In Date | From | <input checked="" type="checkbox"/> | DateShip | Trans code |
| I/O | U | URUMBS | ME | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 32B | 1.000 | CHMD | | G-CHMD | 6/20/2011 | |

| | | | | | | | | | | | | | | |
|------|--|-------------------------------------|-----|-------------------------------------|------------|----------------|--------------------------|-----------------|--------------------------|---------------------|-------|----------------------|-------|------------------|
| RCRA | Yes | <input checked="" type="checkbox"/> | Doc | <input checked="" type="checkbox"/> | Start Date | 01/31/2012 | TSCA | PCBs? | <input type="checkbox"/> | Batch ID | | Activity from I/Q3 | PE-CI | 0.839285 |
| | <div style="border: 1px solid black; padding: 5px;"> EPC Codes D004, D035, D06C, D007, D030, U009, U010, U011, U002, U005 </div> | | | | | | | Class | | GrpSW | | | H-W | 11.258800 |
| | | | | | | | | Conc | | LargWt | | | | |
| | | | | | | | | Weight | | kg | NctWt | | 13.8 | |
| | | | | | | Out of Service | | NC/PI | | Processing Complete | Date | 10/1/2011 | | |
| | | | | | | Robotic type | <input type="checkbox"/> | Liquids Present | <input type="checkbox"/> | > 1 gallon | | Processing Validated | Date | 6/10/2011 |
| | | | | | | | | > 2 PC CI | | | | | | |

| Processes | | | | | | Parent Containers | | | | | |
|--|---------|----------|--------------------|---------|-----------|-------------------|--------------------------|-------------|----------------|----------|--------------------------|
| Date In | Process | Date Out | DR Number | DR Date | Validated | Move ID | Parent Date | ID | Stream | Type | Puck |
| 06/28/11 | S-CHME | | | | | NCU0389 | <input type="checkbox"/> | X10C9313010 | OR-RADP-C4-HET | 7gals/pk | <input type="checkbox"/> |
| <div style="border: 1px solid black; padding: 5px;"> Notes: </div> | | | | | | | | | | | |
| 06/28/11 | S-CHSA | 06/28/11 | | | | | <input type="checkbox"/> | | | | |
| <div style="border: 1px solid black; padding: 5px;"> Notes: MOVE/CONTROL: Process updated from NDA to S-CHSA by Badge ID 02106 in Area 10 </div> | | | | | | | | | | | |
| 06/28/11 | NDA | 06/28/11 | WAI-IQ3-110628-001 | | | | <input type="checkbox"/> | | | | |
| <div style="border: 1px solid black; padding: 5px;"> Notes: MOVE/CONTROL: Process updated from S-CHSA to NDA by Badge ID 02106 in Area 10 </div> | | | | | | | | | | | |
| 06/27/11 | S-CHSA | 06/28/11 | | | | | <input type="checkbox"/> | | | | |
| <div style="border: 1px solid black; padding: 5px;"> Notes: MOVE/CONTROL: Process updated from NDA to S-CHSA by Badge ID 02106 in Area 10 </div> | | | | | | | | | | | |
| 06/27/11 | NDC | 06/27/11 | WAI-RTRG-110627-1 | | | 07/07/11 | <input type="checkbox"/> | | | | |

| | |
|---------------------|--------|
| Daughter Containers | |
| ID | Stream |
| | Type |

| | | | | | | |
|---|-----------------------|----------|--------|----------------|---|---|
|  | Container Detail for: | | | | Page 2 of 3 | |
| | X10C9313010A | | | | Printed by: Developer Printed on: 3/14/2013 at 7:18 PM | |
| Notes: | Waste Type | SKU | Stream | OR-RAPD-CH-HET | Sec? | <input type="checkbox"/> KCHA <input checked="" type="checkbox"/> |
| Notes: MOVIECONTROL Process updated from S-CIGA to NDC by Dodge ID 02106 in Area ID | | | | | | |
| 03/19/11 | S-CHSA | 06/27/11 | | | | M0009989 <input type="checkbox"/> |
| Notes: | | | | | | |
| 05/18/11 | S-231 | 05/18/11 | | | | M0009964 <input type="checkbox"/> |
| Notes: | | | | | | |

| | |
|---|--|
| Process History | |
| 0/4/2012 2:43:55 PM: Location updated from location AR0014-A-05in Area ID AR0014 by Dodge ID U1919. 0/13/2012 9:47 AM: Location updated from location AR0014-A-05in Area ID AR0014 by Dodge ID 13CCATN024. 3/7/2012 3:14:40 AM: Location updated from location AR0014-B-06in Area ID AR0014 by Dodge ID U2069. 2/9/2012 3:43:38 PM: Location updated from location AR0014-B-06in Area ID AR0014 by Dodge ID 01980. 1/17/2012 1:07:32 PM: Location updated from location AR0014-B-06in Area ID AR0014 by Dodge ID U1980. 12/21/2011 3:41:15 PM: Location updated from location AR0014-B-06in Area ID AR0014 by Dodge ID 01395. 12/9/2011 8:26:01 AM: Location updated from location AR0014-B-06in Area ID AR0014 by Dodge ID U1980. 0/17/2011 9:54:17 AM: Originating entries for Confirmation CR, Gross Weight, Tare Weight, Net Weight, Waste Type were created during import by amanda ping. 0/17/2011 9:54:17 AM: Waste Stream changed from CR-RAPD-CH-HET during import by amanda ping. 0/17/2011 9:54:13 AM: Initial IQS rad values written by amanda ping. 0/13/2011 1:01:29 PM: Location updated from location AR0014-B-06in Area ID AR0014 by Dodge ID 01980. 8/24/2011 7:39:19 AM: Location updated from location AR0014-B-06in Area ID AR0014 by Dodge ID 02065. 7/7/2011 5:10:10 PM: Location updated by Dodge ID 01071. 5/18/2011 9:10:32 AM: RCRA designation added by joe.carter. 5/18/2011 8:10:24 AM: 7A designation added by joe.carter. | |

14.0 ATTACHMENTS

Attachment A: Acronyms/Abbreviations, Definitions, References, and Reviewer Selection for Major Revisions

Attachment A: Acronyms/Abbreviations, Definitions, References, and Reviewer Selection for Major Revisions

Acronyms/Abbreviations

AK – Acceptable Knowledge
AKE – Acceptable Knowledge Expert
AKPKS – Acceptable Knowledge/Process Knowledge System
CPE – Cask Processing Enclosure
DR – Data Report
DWM – Director of Waste Management
FGE – Fissile Gram Equivalent
FMS – FileMaker Server
GB – Glovebox
ICA – Inventory Control Area
NDA – Nondestructive Assay
PK – Process Knowledge
RCRA – Resource Conservation and Recovery Act
RTR – Real-Time Radiography
SCO – Surface Contaminated Object
STP – Site Treatment Plan
TRU – Transuranic
TWPC – TRU Waste Processing System
USB – Universal Serial Bus
WICS – Waste Inventory Control System

Definitions

Active Directory: Software on TWPC servers providing central authentication and authorization services for Windows based computers. Active Directory also allows administrators to assign users to accounts within WICS.

Administrator: A user privilege set enabling an assigned user to set up tables that drive WICS. Administrators establish system parameters, such as container, area or isotope definitions. This privilege set enables the user to override any field and execute any script within the system. This privilege set has no limitations on data entry.

Barcode: Printed graphical representations of text or numbers that can be scanned and interpreted by laser-optical scanning devices. These barcodes can be produced in various sizes, printed as independent labels or within any full-page document.

Barcode Scanner: A handheld scanner that interprets printed bar code labels, stores routines and scanned data and transfers batch data to a workstation.

Buttons: Three-dimensional graphics on screens that enable users to interact with WICS. Each button, when clicked by a user, initiates a script to accomplish a specific function.

Attachment A: Acronyms/Abbreviations, Definitions, References, and Reviewer Selection for Major Revisions

Definitions

Client: A software component installed on a user's workstation that enables them to interact with the database system on the server.

Container Move: Container moves within WICS result from a Container Process change. Each container within the system is associated with a process at all times. Some processes relate to a move from one area to another. In these cases, a Move ID is generated and subsequent functions initiated to facilitate this move.

Container Records: A table in WICS that retains information about physical containers being processed by personnel at the TWPC. This table is presented in the "Summary" screen on the Home screen.

Data Report: Includes all data pertaining to RTR or NDA for up to 20 waste containers without regard to waste matrix. It may also be referred to as Data Report (DR).

Database Management System: Software that manages how information in data tables is accessed and presented to users. For WICS, this software is FileMaker.

Developer: A super-user privilege set enabling this user to modify any component of WICS. This includes the FileMaker tables, relationships, scripts and layouts. This privilege set is intended for FileMaker programmers only. This privilege set has no limitations on data entry.

Entry Level: A user privilege set enabling the user to enter data into the system such as new containers, container process changes and container joins. This privilege set does not permit data entry in setup and authorization fields exclusive to Administrative users.

FileMaker: The software utilized in both server (FileMaker Server) and client versions (FileMaker Pro) as the database manager for WICS.

Home Menu: The primary screen in WICS from which users can view records or initiate new records. This screen also presents announcements from system Administrators.

Inventory Control Area (ICA): The physical locations within the TWPC with specifically defined boundaries. These Control Areas are continually monitored and managed within specified radiation value limits.

Layouts: Screens and report formats created in FileMaker to logically present data to users. Layouts include buttons to initiate scripts to help user locate and manage data.

Menu: A set of icons and labels on the top of every screen that enable users to navigate to the primary parts of WICS.

MoveControl: An application that interacts with WICS to provide control and verification of scanning operations.

Operator: A user privilege set enabling the user to operate the MoveControl application only. This privilege set has no direct access into WICS.

Portal: A section within a screen, which enables users to view related data from other tables.

Attachment A: Acronyms/Abbreviations, Definitions, References, and Reviewer Selection for Major Revisions

Definitions

Privilege Set: Access rights to specific data or data files within a database, network or server location. Privileges determine capability to read and/or write data to files on a computer.

Process Change: Each container within WICS is associated with a specific process at all times. Whenever action is being taken on a given container, it must be entered into the system via a Process Change. Some processes relate to a move from one area to another. In these cases, a Move ID is generated and subsequent functions initiated to facilitate this move.

Read Only: A user privilege set enabling the user to navigate the system for searching, viewing and printing out data. No data entry or record modification is permitted.

Relationship: A connection from one database table to another database table related by a common field in each table. Relating data tables provides users an easy way to view and navigate to information in many parts of WICS.

Resource Conservation and Recovery Act (RCRA): Federal regulations regarding management of certain types of waste according to mandated disposal and recycling objectives.

Script: A set of pre-established FileMaker commands to produce a specific result.

Server: A computer on the network that distributes data to users. A server will provide access to FileMaker databases along with directories holding data files.

System: WICS, comprised of tables, scripts, database management software and other processes, created to enable users to access data and store or retrieve container processing information.

Tables: Information held in fields (columns) and records (rows) that can be accessed by a database manager (i.e., FileMaker).

Tabs: Small graphical representations that enable a user to view information in different ways. Such tabs look similar to a tab on a paper index file divider.

User: A generic term representing a person interacting with WICS via keyboard and mouse, navigating via the menu icons and screen buttons. Each user is assigned a privilege set permitting or prohibiting data entry and system functionality.

Universal Serial Bus (USB): A hardware interface that allows computer workstations to communicate to peripheral devices.

Developmental References:

None



Attachment A: Acronyms/Abbreviations, Definitions, References, and Reviewer Selection for Major Revisions

Cross References:

CH-UET-OP-014, Waste and Activity Inventory Control

CM-M-WP-003, PE-Ci_FGE_Entry User Manual

CM-M-WP-006, MoveControl User Manual

CM-M-BO-004, FileMaker User Administration Manual

Reviewer Selection for Major Revisions

| Required | Optional |
|---|--|
| Analytical Manager | Director of Regulatory Interface and Integration |
| Application Development Specialist - IT | Environmental Programs Manager |
| Director of Business Operations | Safety Authorization Basis Manager |
| Director of Waste Management | Waste Logistics Coordinator |
| Radiological Control Manager | |
| Waste Tracking and Reporting Manager | |
