

CCP-TP-030

Revision 33

CCP CH TRU Waste Certification and WWIS/WDS Data Entry

EFFECTIVE DATE: 11/19/2013

Mike Ramirez

PRINTED NAME

APPROVED FOR USE

RECORD OF REVISION

Revision Number	Date Approved	Description of Revision
24	08/20/2008	Revised in response to Central Characterization Project Corrective Action Report CAR 08-025, deleted Characterization Data System Waste Certification Official review form, and made editorial changes.
25	01/22/2009	Revised to update data sources for the Waste Isolation Pilot Plant (WIPP) Waste Information System (WWIS) Data Spreadsheet (SS). Also made minor editorial changes.
26	05/27/2009	Revised to implement changes made to the <i>Contact-Handled Transuranic Waste Authorized Methods for Payload Control (CH-TRAMPAC)</i> .
27	12/14/2009	Revised to allow use of the Waste Data System (WDS).
28	05/12/2010	Revised to include steps for direct load 100-Gallon drums that require characterization prior to placement in a direct load Standard Waste Box (SWB) and for minor editorial changes.
29	04/26/2011	Revised Attachment 2, WCO Waste Certification Requirements, to include Standard Large Box 2 (SLB2) Waste Certification Official (WCO) Waste Certification Requirements. Also revised Sections 3.1.6, 4.2.6, and Attachment 1 of the Data Sources for the WDS Master Template.
30	05/21/2012	Revise Table 1, Data Sources for the WDS Master Template, to include the acceptable knowledge (AK) Tracking Spreadsheet (SS) for another source for Layers of Confinement; added the reference for the Transuranic Package Transporter (TRUPACT)-III; added new records section for waste data system (WDS) flammable gas analysis (FGA) Certification.
31	11/19/2012	Revised to address CAR-CCP-0003-12 and various editorial changes. Also revised to better streamline the nonconformance report (NCR)/Corrective Action Report (CAR) quality assurance (QA) request.
32	06/20/2013	Revised to implement the Permit Modification Request Class 2 approved by New Mexico Environment Department (NMED) dated March 13, 2013 and <i>Contact-Handled Transuranic Waste Authorized Methods for Payload Control (CH-TRAMPAC)</i> changes.

RECORD OF REVISION

Revision Number	Date Approved	Description of Revision
33	11/19/2013	Revised to implement Shielded Container Assembly information and various editorial changes. Also revised to change the (WDS) Master Template to WDS Spreadsheet. Revised Attachment 2, WCO Waste Certification Requirements to include more acceptable container types, as well as more detail within the entire attachment. Also revised to implement a corrective action from WF13-245.

TABLE OF CONTENTS

1.0 PURPOSE.....5
1.1 Scope.....5
2.0 REQUIREMENTS.....6
2.1 References6
2.2 Training Requirements.....7
2.3 Equipment List7
2.4 Software.....7
2.5 Precautions and Limitations.....7
2.6 Prerequisite Actions7
2.7 Definitions7
3.0 RESPONSIBILITIES.....8
3.1 Site Project Manager (SPM) or Designee8
3.2 Quality Assurance (QA)8
3.3 Waste Certification Official (WCO) or Designee8
3.4 Waste Certification Assistant (WCA).....9
4.0 PROCEDURE..... 10
4.1 Obtaining and Changing Access to the WWIS/WDS 10
4.2 Verifying WSPF in WWIS/WDS Tables and Listing Associated Containers 10
4.3 Entering and Verifying Characterization Data Using the WDS Spreadsheet11
4.4 Waste Certification (By Container of Waste)..... 16
4.5 Waste Certification Data Submittal 18
4.6 Data Entry into the WWIS/WDS of FGA Data Generated by CCP for
Non-CCP Waste Containers 20
4.7 Container Selection and certification for Overpacks/Load Management
Containers using the WWIS/WDS 24
4.8 Waste Certification (For Site-to-Site Shipments Only) 26
4.9 Waste Certification Data Submittal for Site-To-Site Shipments 29
5.0 RECORDS..... 31

LIST OF TABLES

| Table 1. Data Sources for the WDS Spreadsheet..... 14

LIST OF ATTACHMENTS

Attachment 1 – Entering of Content Code and Shipping Category into the WWIS/WDS .32
Attachment 2 – WCO Waste Certification Requirements 33

1.0 PURPOSE

The purpose of this procedure is to describe the steps the Central Characterization Program (CCP) uses for certifying contact-handled (CH) transuranic (TRU) waste for disposal at the Waste Isolation Pilot Plant (WIPP). This procedure also describes the process for entering data into the WIPP Waste Information System (WWIS)/Waste Data System (WDS) and reporting data on containers for disposal at the WIPP.

In addition, this procedure may be used to enter data into the WWIS/WDS for site-to-site waste shipments using Transuranic Package Transporter (TRUPACT)-IIs, TRUPACT-IIIs, or HalfPACTs. Site-to-site waste shipments are defined as shipments with destinations to sites other than the WIPP for storage, characterization, or treatment, and are distinct from site-to-WIPP waste shipments for disposal.

1.1 Scope

This procedure defines the parameters necessary for certification of CH TRU waste for disposal at the WIPP. This procedure includes the records that are generated to document that the CCP Waste Certification Official (WCO) has performed the necessary verifications and has certified the waste for disposal.

This procedure also describes how to obtain access and enter data into the WWIS/WDS for containers to be certified for disposal at the WIPP.

This procedure also describes the steps for entering data into the WWIS/WDS for site-to-site waste shipments. Site-to-site waste shipments are shipments of waste destined for sites other than the WIPP.

2.0 REQUIREMENTS

2.1 References

Baseline Documents

- CCP-TP-035, *CCP Container Management*
- CCP-TP-068, *CCP Standardized Container Management*
- CCP-PO-001, *CCP Transuranic Waste Characterization Quality Assurance Project Plan*
- CCP-PO-002, *CCP Transuranic Waste Certification Plan*
- CCP-PO-050, *CCP TRUPACT-III TRU Waste Authorized Methods for Payload Control (CCP TRUPACT-III TRAMPAC)*
- *CH-TRU Payload Appendices*

Referenced Documents

- DOE/WIPP-09-3427, *Waste Data System User's Manual*
- DOE/WIPP-02-3122, *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant*
- DOE/WIPP-01-3194, *CH-TRU Waste Content Codes (CH-TRUCON)*
- DOE/WIPP-11-3458, *TRUPACT-III CONTENT CODES (TRUCON-III)*
- CCP-PO-003, *CCP Transuranic Authorized Methods for Payload Control (CCP CH-TRAMPAC)*
- CCP-QP-002, *CCP Training and Qualification Plan*
- CCP-QP-005, *CCP TRU Nonconforming Item Reporting and Control*
- CCP-QP-008, *CCP Records Management*
- CCP-TP-002, *CCP Reconciliation of DQOs and Reporting Characterization Data*
- CCP-TP-120, *CCP Container Management*

2.2 Training Requirements

2.2.1 Personnel who use this procedure to certify waste will be trained and qualified to the requirements for the WCO in accordance with CCP-QP-002, *CCP Training and Qualification Plan*.

2.2.2 Personnel who use this procedure to enter data will be trained and qualified to the requirements for the Waste Certification Assistant (WCA) in accordance with CCP-QP-002.

2.2.3 Personnel who use this procedure to enter data into the WWIS/WDS will refer to DOE/WIPP-09-3427, *Waste Data System User's Manual*.

2.3 Equipment List

2.3.1 None.

2.4 Software

2.4.1 WDS Master Template.XLS

2.4.2 IDC WDS Spreadsheet (controlled by IDC)

2.4.3 concat_wds_files.bat

2.4.4 clean_container_files.bat

2.4.5 WDS FGA Template.XLSM

2.4.6 IDC WDS FGA Spreadsheet (controlled by IDC)

2.5 Precautions and Limitations

2.5.1 None.

2.6 Prerequisite Actions

2.6.1 None.

2.7 Definitions

2.7.1 None.

NOTE

The Data Administrator (DA) in this document refers to the WWIS/WDS DA.

3.0 RESPONSIBILITIES

3.1 Site Project Manager (SPM) or Designee

3.1.1 Confirms that personnel performing this procedure are trained and qualified in accordance with applicable requirements in CCP-QP-002.

3.1.2 Prepares a list of candidate containers for certification and submits to the WCO and WCA.

3.1.3 Notifies the WCO and WCA of approved Waste Stream Profile Form (WSPF).

3.1.4 Notifies the WCO and WCA of completed Lot Characterization Information Summary (CIS).

3.1.5 Serves as focal point for resolution of data issues.

3.2 Quality Assurance (QA)

3.2.1 Provides assistance in verifying data, completing documentation, and reviewing requirements and provides status of applicable Nonconformance Reports (NCRs).

3.2.2 Confirms, individually and with an independent verification (does not have to be Quality Assurance [QA]), that there are no unresolved NCRs for containers to be certified when requested by the WCA or WCO.

3.3 Waste Certification Official (WCO) or Designee

3.3.1 Confirms that WCOs and WCAs are granted access to the WWIS/WDS.

3.3.2 Obtains a copy of the approved WSPF for applicable containers to be certified.

3.3.3 Certifies the data for the container to be certified as identified on the WDS Spreadsheet.

3.4 Waste Certification Assistant (WCA)

- 3.4.1 Works with the WCO to obtain access to the WWIS/WDS.
- 3.4.2 Obtains copies of data for each container from CCP Records, IDC or the Site Project Manager (SPM) that show data to be entered into the WDS Spreadsheet.
- 3.4.3 Generates the WDS Spreadsheet and has a second WCA confirm the data are transferred correctly to the WDS Spreadsheet. The second data entry person verifies the information and places initials and date in the WDS Spreadsheet prior to certification by the WCO.
- 3.4.4 Forwards the WDS Spreadsheet to the WCO for certification.
- 3.4.5 Requests that QA confirm that NCRs associated with containers to be certified have been resolved, as appropriate, via electronic mail (E-mail).
- 3.4.6 Submits the container data from the WDS Spreadsheet to the WWIS/WDS, as applicable.
- 3.4.7 Submits data package to CCP Records Custodian in accordance with CCP-QP-008, *CCP Records Management*.

NOTE

Throughout the procedure, "WDS Spreadsheet" is a generic term used to refer to both the "IDC WDS Spreadsheet" (primary) and the "WDS Master Template" (backup). Similarly, "WDS FGA Spreadsheet" refers to both the "IDC WDS FGA Spreadsheet" (primary) and the "WDS FGA Template" (backup). The primary and backup software perform identical functions; the backups are for use when the IDC is unavailable.

4.0 PROCEDURE**4.1 Obtaining and Changing Access to the WWIS/WDS****WCO**

4.1.1 Determine which personnel need access to the WWIS/WDS (see Section 0 of DOE/WIPP-09-3427).

4.1.2 Request WWIS/WDS access for each person by filling out a WIPP/WDS access request form and submitting it to a DA.

4.1.3 Notify the DA when personnel who have received WWIS/WDS access:

[A] Leave the project;

[B] No longer need WWIS/WDS access; **OR**

[C] Need to change the type of WWIS/WDS access.

CCP Personnel

4.1.4 Once the DA has been notified by the WCO that access is to be granted, contact the DA to receive WWIS/WDS training and a WWIS/WDS username in accordance with the DOE/WIPP-09-3427.

4.2 Verifying WSPF in WWIS/WDS Tables and Listing Associated Containers**SPM**

4.2.1 Obtain the WSPF Number in accordance with CCP-TP-002, *CCP Reconciliation of DQOs and Reporting Characterization Data*.

4.2.2 Request the DA establish the WSPF Number in the WWIS/WDS.

- 4.2.3 Confirm that the WSPF Number is correct in the WWIS/WDS Reference Table upon notification that the DA has added the WSPF Number to the WWIS/WDS.
- 4.2.4 Notify the WCO and WCA of the WSPF.
- 4.2.5 Develop a list of containers for certification under the appropriate WSPF.
- 4.2.6 Review the list of containers for certification, revise as necessary, **AND** submit the list to the WCO and WCA when the CIS is complete.

4.3 Entering and Verifying Characterization Data Using the WDS Spreadsheet

WCA

- 4.3.1 Obtain, from CCP Records, IDC or the SPM, a copy of the appropriate WSPF, Batch Data Reports (BDRs), Packaging Records, Acceptable Knowledge (AK) Summary Report, AK Tracking Spreadsheet, and radiological survey data as applicable.
- 4.3.2 Use copies of appropriate BDRs or other data source, from CCP Records, IDC or the SPM, as listed in Table 1, Data Sources for the WDS Spreadsheet, to enter characterization data for each container record used to support the WSPF.

NOTE

Section 4.3.3 is for data entry of waste that requires characterization prior to placement in a direct loaded Standard Waste Box (SWB).

4.3.3 Standard Waste Box(es) (SWBs) Direct Loaded

- [A] **IF** the container is **NOT** an SWB direct loaded, **THEN** proceed to step 4.3.4.
- [B] Add up the Waste Material Parameters (WMPs) from the real-time radiography (RTR) or visual examination (VE) data sheets for the drums loaded in the SWB, **AND** enter on the WDS Spreadsheet as single values for the SWB.
- [C] Add up the drum weights, **AND** enter the value as steel waste by adding the value to the WMP for the steel waste on the WDS Spreadsheet.

- [D] Add up the drum liner weights, **AND** enter the value as plastic waste by adding the value to the WMP for plastic waste on the WDS Spreadsheet.
- [E] **IF** the drums to be direct-loaded require gas generation testing (GGT) data, **THEN** add up the GGT values for each drum and enter a single value for the SWB on the WDS Spreadsheet, **AND** report the oldest GGT completion date of the drums.
- [F] **IF** the drums to be direct loaded are from a Polychlorinated Biphenyl (PCB) Waste Stream, **THEN** assign the earliest closure date or the earliest Out-of-Service date on the AK tracking Spreadsheet of the direct-loaded drums as the Out-of-Service date for the PCB waste in the SWB.
- [G] **IF** a flammable gas test is run on the SWB, **THEN** use the results.
- [H] **IF** SWB does not have flammable gas results, **THEN** proceed to step 4.3.3[I].

NOTE

Use a flammable gas analysis (FGA) sample date one day after the closure and vent.

- [I] The Volatile Organic Compound (VOC) concentration values for each 55-gallon drum packaged in the SWB shall be compared, and the highest single value for each flammable VOC shall be selected for reporting as the SWB values on the WDS Spreadsheet.

- 4.3.4 Enter DOE/WIPP-01-3194, *CH TRU Waste Content Codes* (CH-TRUCON) or DOE/WIPP-11-3458, *TRUPACT-III Content Codes (TRUCON-III)* as described in Attachment 1, Entering of Content Code and Shipping Category into the WWIS/WDS, as applicable.
- 4.3.5 Enter shipping categories as described in Attachment 1, if necessary.
- 4.3.6 Enter initials and submit the completed WDS Spreadsheet to a second WCA for verification.

WCA (Verifier)

- 4.3.7 Confirm the data entered into the WDS Spreadsheet for each container record by checking the data to confirm the accuracy and completeness.
- 4.3.8 **IF** there are any discrepancies,
THEN the correction must be made by a WCA.
- 4.3.9 **IF** the discrepancies **CANNOT** be resolved,
THEN provide the WDS Spreadsheet to the WCO or SPM for resolution.
- 4.3.10 **WHEN** the WDS Spreadsheet is complete and verified,
THEN enter initials and date verified in the Spreadsheet, print the WDS Spreadsheet, **AND** submit to the WCO.

Table 1. Data Sources for the WDS Spreadsheet

<u>Field Label</u>	<u>Source</u>
<u>Characterization, Certification, and Shipping Data</u>	
Shipper Site ID or Site ID Location ID Destination Program ID Shipping Purpose	WDS reference table
Waste Stream Profile	AK Summary Report
Container Number	Completed CIS (Add "BN" to front of ID Number for the Advanced Mixed Waste Treatment Project [AMWTP] containers not being Overpacked); AK Tracking Spreadsheet
Container Type	Packaging records; visual inspection; AK Summary Report; or designate for Overpacking, AK Tracking Spreadsheet
Waste Acceptance Criteria (WAC) Rev #	DOE/WIPP-02-3122, <i>Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant</i>
Cert Site	WDS reference table
Cert Date	Date WCO certifies payload container
Waste Handling Code	CH Radioassay BDR; Radiological Characterization BDR; WSPF
Waste Type Code	WSPF or AK Summary Report (TRU or mixed transuranic (waste) [MTRU]) (if no Hazardous Waste Numbers, enter TRU)
Waste Stream Baseline Inventory Report (BIR) ID	WSPF or AK Summary Report
Generator Site ID Item Description Code (IDC) Code Matrix Code	WSPF or AK Summary Report AK Summary Report (not applicable [NA] if no IDC available) WDS reference table
TRUCON Code	AK Summary Report, WSPF. See Attachment 1 and the CH-TRUCON or TRUCON-III.
Shipping Category	CH-TRUCON or TRUCON-III
TRU Alpha Act TRU Alpha Act Uncertainty TRU Alpha Act Concentration (conc.) Pu-239 Fissile Gram Equivalent Pu-239 Fissile Gram Equivalent Uncertainty Pu-239 eq. act. Decay Heat Decay Heat Uncertainty	Radioassay BDR, Radiological Characterization BDR Note – Nondestructive Assay (NDA) uncertainties must be reported to the WWIS/WDS at 1-sigma. Verify the data to be submitted to WWIS/WDS is at 1-sigma.
<u>Field Label</u>	<u>Source</u>
Layers of Packaging	VE BDR, RTR BDR, AK Tracking Spreadsheet or AK Summary Report
Fill Factor	VE BDR, RTR BDR or AK Summary Report
Liner Type or Liner Exists	VE BDR, RTR BDR or AK Summary Report
Liner Lid Present	VE BDR, RTR BDR or AK Summary Report

Table 1. Data Sources for the WDS Spreadsheet (Continued)

Liner Punctured, Liner Hole Size	VE BDR, RTR BDR, or AK Summary Report. No liner lid indicates liner is vented with default hole size of 478 mm for a 55-gallon drum
PCB Waste PCB Concentration PCB Mass PCB Out-Of-Service Date	WSPF or AK Summary Report VE BDR, RTR BDR, or AK Tracking Spreadsheet
Aqueous Material Beryllium (Be) less than or equal to 100 kg Be less than or equal to 1% Be Present Machine Compacted	AK Tracking Spreadsheet or AK Summary Report
Closure Date	AK Tracking Spreadsheet, Remediated Drum Spreadsheet, IDC, FGA BDR
Vent Date	AK Tracking Spreadsheet, Remediated Drum Spreadsheet, IDC, FGA BDR
Filter Install Date Filter Manufacturer Filter Model Number Number of Filters Installed	FGA BDR, VE BDR, AK Tracking Spreadsheet, Remediated Drum Sheet, Drum Filter Change Out Form, or Container Inspection Report, SLB2 Vent Configuration Sheet
Waste Gen Date Filter Reduction Date Reduced Filter Model	AK Tracking Spreadsheet
Aspiration Method ID	AK Tracking Spreadsheet, Remediated Drum Spreadsheet, AK Summary Report, FGA BDR, Off-site Sealed Source Recovery (OSR) Project AK Summary Report
Gas Generation Rate Hydrogen/Methane Gen. Rate Generation Completion Date	GGT BDR, Long Term Objective (LTO) as applicable
Gross Weight	VE BDR, Radiography BDR, CCP-TP-120, <i>CCP Container Management (OSR only)</i> ,
Gross Weight Uncertainty	2.3 kg for drums, 16.3 kg for SWBs, and 90.7 kg for SLB2s may be entered as the bounding case where actual measurement data are not readily available
<u>Field Label</u>	<u>Source</u>
Alpha Surf Cont Beta/Gamma Surf Cont Neutron Dose Rate Beta/Gamma Dose Rate	Radiological Control Technician (RCT) Report
<u>Radionuclide Data</u> Radionuclide Activity (curie [Ci]) Activity Uncertainty (Ci)	Radioassay BDR, Radiological Characterization BDR Note – NDA uncertainties must be reported to the WWIS/WDS at 1-sigma. Verify the data to be submitted to WWIS/WDS is at 1-sigma.
<u>Assay Method Data</u> Radioassay Method Data Package Number Assay Date (actual assay date)	Certification Letters or Certified Equipment List, Radioassay BDR, Radiological Characterization BDR
<u>Material Parameter Data</u> WMP Weight of Material Parameter	VE BDR or Radiography BDR, AK Summary Report
<u>Characterization Method Data</u> Charz Method ID Data Package Number Charz Method Date	RTR, VE BDR, Certification Letters or Certified Equipment List

Table 1. Data Sources for the WDS Spreadsheet (Continued)

<u>Hazardous Waste Numbers Data</u> Hazardous Waste Numbers	WSPF or AK Summary Report
Sample Type Layer No. Sampled Date Sampled Method ID Data Package Number	FGA BDR, OSR AK Summary Report, Certification Letter, Certification Equipment List
Analyte	FGA BDR, OSR AK Summary Report, Certification Letters, or Certified Equipment List Analytical BDR
Concentration (% volume [vol.], milligram/kilogram [mg/kg], parts per million [ppm]) Date Analyzed	FGA BDR, OSR AK Summary Report
Reporting Flag D Reporting Flag U Reporting Flag N/A	FGA BDR, OSR AK Summary Report

4.4 Waste Certification (By Container of Waste)

NOTE

Steps 4.4.1 through 4.4.13 can be performed in any order.

WCO

4.4.1 Verify the appropriate WDS Spreadsheet is being used.

NOTE

For waste streams that are approved for load management, TRU alpha activity concentrations of less than 100 nanocuries per gram (nCi/g) are allowed, if containers meet step 4.4.7, and must be assigned an overpack status.

4.4.2 Confirm that the TRU alpha activity concentration is greater than 100 nCi/g for each payload container.

4.4.3 Confirm that the WDS Spreadsheet contains accurate and complete information for the container by checking that the WCA has completed their input and review.

4.4.4 **IF** there are any open NCRs, **THEN** verify that each container certified has no unresolved NCRs.

- 4.4.5 Review the waste stream information against the applicable Content Code and data sources to confirm the waste is **NOT** an incompatible waste.
- 4.4.6 Verify that the WDS Spreadsheet contains the correct WSPF Number for that container as listed in the AK Tracking Spreadsheet.
- 4.4.7 Verify at least one TRU isotope is greater than the lower limit of detection (LLD) for waste containers.
- 4.4.8 Confirm the criteria on Attachment 2, WCO Waste Certification Requirements, have been met.
- 4.4.9 **IF** the Methane concentration is greater than or equal to 1,250 ppm,
THEN the container is **NOT** eligible for certification.
- 4.4.10 **IF** the Methane concentration is less than the minimum detectable limit (MDL) as indicated by a "U" flag,
THEN adjust the Methane concentration to 2.5 percent of the Hydrogen concentration, as appropriate.
- 4.4.11 **IF** GGT is indicated for the waste container,
THEN ensure that the shipping period of the selected Shipping Category is valid for the testing period of GGT.

NOTE

The designator "BN" must be added to the beginning of the Container number for all data sets for waste containers from AMWTP waste streams and containers **NOT** designated to be overpacked. This designator is only required to be applied to the Container ID for submittal to the WWIS/WDS.

WCO

- 4.4.12 **IF** the container is certifiable,
THEN sign and date the WDS Spreadsheet, **AND** forward to WCA for submittal to WWIS/WDS.
- 4.4.13 **IF** container is **NOT** certifiable,
THEN attempt to resolve issue with SPM.
- 4.4.14 **IF** a deficiency in data is identified after a Container Data Folder is created and before submittal to the WWIS/WDS,
THEN perform the following:

- [A] Write a description of the deficiency near the top of Page 1 of the WDS Spreadsheet.
- [B] Initiate an NCR in accordance with CCP-QP-005, *CCP TRU Nonconforming Item Reporting and Control*, as necessary.

4.4.15 **IF** a container does not have an approved/proper TRUCON code, **THEN** have the container put on an electronic exclusion in the Integrated Data Center (IDC) database.

4.5 Waste Certification Data Submittal

WCA

4.5.1 Request that QA confirms that each container certified and entered into the WDS Spreadsheet has **NO** unresolved NCRs, if applicable.

QA

4.5.2 Prepare a report verifying that each container certified has **NO** unresolved NCRs.

4.5.3 Forward report to WCA.

NOTE

The WCA uses a macro (CreateTmpTables) and ancillary worksheets that are part of the WDS Spreadsheet.

WCA

4.5.4 Generate tab-delimited files from the electronic WDS Spreadsheet corresponding to the WWIS/WDS Database Tables.

4.5.5 OPEN TempTables Folder to run batch programs, **AND** run concat_wds_files to copy all containers into upload files readable by WWIS/WDS.

4.5.6 LOGON to the WWIS/WDS.

- [A] Select Data Upload Function.
- [B] Select Browse to open Temp Tables Folder.
- [C] Select the text file to be uploaded.

- [D] Select Certification or Characterization based on whether or not the waste stream is approved.
- [E] Select perform evaluations as applicable.
- [F] Select upload containers.
- [G] **IF** container upload is successful,
THEN GO TO step 4.5.7.
- [H] **IF** container upload fails,
THEN select view exit codes or print error messages on screen as applicable.
- [I] **IF** container transfer error(s) can be fixed,
THEN fix errors, **AND** repeat steps 4.5.6[A] through 4.5.6[I] until successful, **OR** container errors **CANNOT** be fixed.
- [J] **IF** container transfer **CANNOT** be fixed,
THEN exit the system, **AND RETURN** Container Data Folder to WCO.

4.5.7 **WHEN** complete,
THEN Open the TempTables Folder and RUN clean_container_files to clear the TempTables Folder of all uploaded file data.

WCO

- [A] Write a description of the deficiency near the top of Page 1 of the WDS Spreadsheet.
- [B] Initiate an NCR in accordance with CCP-QP-005, *CCP TRU Nonconforming Item Reporting and Control*, as necessary.

4.5.8 **IF** a deficiency is identified after the container data is submitted to the WWIS/WDS,
THEN:

- [A] Request in writing CCP management approval for the WCO to reject the container from the WWIS/WDS, if applicable,
AND;
- [B] Obtain confirmation that the container is rejected, if applicable.

- [C] Initiate an NCR in accordance with CCP-QP-005, as necessary.

WCA

4.5.9 Compile the following items used in the submission of data to the WWIS/WDS, **AND** submit to CCP Records:

- [A] The completed WDS Spreadsheet for each CH Packaging Payload Container submitted to and approved by the WWIS/WDS.
- [B] NCR check from QA E-mail.
- [C] Any correspondence (e.g., memorandum/E-mail notifications) associated.

WCO or WCA

4.6 Data Entry into the WWIS/WDS of FGA Data Generated by CCP for Non-CCP Waste Containers

- 4.6.1 Obtain List of Non-CCP Waste Containers that require CCP-Generated FGA Data from Ad Hoc Query from WWIS/WDS.
- 4.6.2 Enter and Verify FGA Data for Non-CCP Waste Containers using the WDS FGA Spreadsheet.

WCA

- [A] Obtain, from CCP Records, IDC or the WCO, a copy of the FGA BDRs.
- [B] Use copies of FGA BDRs from CCP Records, IDC or a WCO as listed in Table 1 to enter FGA data into the appropriate WDS FGA Spreadsheet for each waste container.
- [C] Enter initials **AND** submit the completed WDS FGA Spreadsheet to a WCA for verification.

NOTE

Section 4.6.2[D] is for data entry of waste that requires characterization prior to placement in a direct loaded SWB.

NOTE

Use a FGA sample date one day after the closure and vent.

- [D] For SWBs Direct Loaded, the VOC concentration values for each 100-gallon drum packaged in the SWB shall be compared and the highest single value for each flammable VOC shall be selected for reporting as the SWB values on the WDS FGA Spreadsheet.

WCA (Verifier)

- [E] Confirm the data entered into the WDS FGA Spreadsheet for each container record by checking the data to confirm the accuracy of the data.
- [E.1] **IF** there are any discrepancies,
THEN forward to WCA for correction.
- [E.2] **IF** the discrepancies **CANNOT** be resolved,
THEN provide the WDS FGA Spreadsheet to a WCO for resolution.
- [E.3] **WHEN** the WDS FGA Spreadsheet is complete **AND** verified,
THEN enter initials and date verified on the WDS FGA Spreadsheet, **AND** submit to a WCO.

4.6.3 Waste Certification of Non-CCP Waste Containers with CCP-Generated FGA Data

WCO/WCA

- [A] Request that QA confirms that each container certified and entered into the WDS Spreadsheet has **NO** unresolved NCRs, if applicable.

QA

- [B] Prepare report verifying that each non-CCP waste container being certified has **NO** unresolved NCRs.

[C] Forward report to WCA and WCO.

WCO

[D] Verify the appropriate WDS FGA Spreadsheet is being used.

[E] Confirm that the WDS FGA Spreadsheet contains accurate information for the non-CCP waste container by checking that the appropriate review and input has been completed.

NOTE

Steps [F] and [G] shall only be performed for 100-gallon drums containing 55-gallon puck drums.

[F] **IF** the hydrogen/methane concentration is greater than 5,883 ppm, but less than 17,150 ppm, **THEN** designate the container for a 10-day controlled shipment.

[G] **IF** the hydrogen/methane concentration is greater than or equal to 17,150 ppm, **THEN** place the non-CCP waste container on hold, **AND** initiate an NCR in accordance with CCP-QP-005.

[H] **IF** the Methane concentration is less than the MDL as indicated by a "U" flag, **THEN** adjust the Methane concentration to 2.5 percent of the Hydrogen concentration, as appropriate.

[I] Select and enter appropriate shipping category for non-CCP waste container.

[J] **IF** a deficiency in data is identified after a WDS FGA Spreadsheet is created and before copying data to the WWIS/WDS, **THEN** place the waste container on hold, **AND** initiate an NCR in accordance with CCP-QP-005, as necessary.

[K] **IF** the container is certifiable, **THEN** submit the WDS FGA Spreadsheet to WWIS/WDS.

WCA/WCO

- [L] Generate tab-delimited files from the electronic WDS FGA Spreadsheet corresponding to the WWIS/WDS container record.
- [M] Open TempTables Folder to run batch programs, **AND** RUN concat_wds_files.to copy all containers into upload files readable by the WWIS/WDS.
- [N] LOGON to the WWIS/WDS.
 - [A.1] Select Data Upload Function.
 - [A.2] Select Browse to find upload file.
 - [A.3] Select Certification.
 - [A.4] Select upload containers.
- [O] **IF** container upload is successful, **THEN** go to step 4.6.3[S].
- [P] **IF** container upload fails, **THEN** select view exit codes or print error messages on screen as applicable.
- [Q] **IF** container transfer error(s) can be fixed, **THEN** fix errors, **AND** repeat steps 4.6.3[N] through 4.6.3[Q] until successful, **OR** container errors **CANNOT** be fixed.
- [R] **IF** container transfer error(s) **CANNOT** be fixed, **THEN** exit the system, **AND** initiate an NCR in accordance with CCP-QP-005, if applicable.

WCO

- [S] Go to Container Certification Data Submittal.
- [T] Open the Container in the WWIS/WDS container certification date submittal, **AND** enter all data that was not part of the WDS FGA Spreadsheet flat files.
- [U] Perform eTRAMPAC evaluation.

- [V] **IF** non-CCP waste container fails the eTRAMPAC evaluation,
THEN initiate an NCR in accordance with CCP-QP-005, if applicable.
- [W] **IF** non-CCP waste container passes the eTRAMPAC evaluation,
THEN open the TempTables Folder AND run clean_container_files to clear the TempTables Folder of all unused data that is **NOT** in useable WWIS/WDS format.
- [X] Exit the WWIS/WDS.

WCO (Verifier)

- [Y] Confirm the data entered into the WWIS/WDS by checking the WDS FGA Spreadsheet to confirm the the data is accurate and complete.
- [Z] **WHEN** data are accurate and complete,
THEN both WCO and WCO Verifier sign and date the WDS FGA Spreadsheet.

NOTE

The WWIS/WDS Overpack Data Entry Module utilizes edit limit checks when data are entered and selected. The WWIS/WDS steps in the following section may be repeated until Overpack compliance is satisfied. Default data may be used to generate the build list for the Transportation Certification Officials (TCOs).

WCO

- 4.7 Container Selection and certification for Overpacks/Load Management Containers using the WWIS/WDS
- 4.7.1 LOGON to the WWIS/WDS.
- 4.7.2 Enter the Overpack Planning and Completion Module.
- 4.7.3 Select New.
- 4.7.4 Enter the data for the Overpack information and select search.
- [A] Select Overpack Configuration

- [B] Select Certification Program ID
- [C] Select Current Location
- [D] Select Destination Site ID
- [E] Select Shipping Program
- [F] Select Waste Stream Profile Code
- [G] Select Search

- 4.7.5 Select the Containers for the Overpack.
- 4.7.6 Enter filter model number, number of filters, and date of filter installation and add as applicable.
- 4.7.7 Perform evaluation checks.
- 4.7.8 Select Accept and Enter Overpack number.

NOTE

To have the WWIS/WDS perform the edit and limit checks on the Overpack/Load Management Container without submitting the Overpack/Load Management Container for approval as in step 4.7.21, the WCO can select all evaluations as applicable and select execute checks.

- 4.7.9 Enter Beta/Gamma and Neutron dose rate, if applicable.
- 4.7.10 Enter Shipping Purpose.
- 4.7.11 Enter the Closure and Vent Date of the Overpack/Load Management Container, if applicable.
- 4.7.12 Enter the WAC revision number.
- 4.7.13 Enter Alpha Surface and Beta/Gamma Surface Contamination, if applicable.
- 4.7.14 Enter filter model number, number of filters, and date of filter installation, and add as applicable.
- 4.7.15 Select all evaluation checkbox, select execute checks, **AND IF** fail, **THEN** repeat steps 4.7.4 through 4.7.14 as applicable.

- 4.7.16 Generate Overpack Build List.
- 4.7.17 Send Overpack Build List to applicable TCO's.
- 4.7.18 Receive the Loading Form from the TCO and enter the required certification data, **AND** enter certification date.
- 4.7.19 For the ten-drum overpacks (TDOPs), verify that the heavier drums are on the bottom layer and the lighter drums are on the top layer.
- 4.7.20 Submit the Overpack/Load Management Container for approval.
- 4.7.21 After successful submittal for approval, print the Overpack data report and print title, sign, and date the cover page of the report.
- 4.7.22 Compile the following items used in the submission of data to the WWIS/WDS, **AND** submit to CCP Records in accordance with CCP-QP-008:
 - [A] Copies of the data containing the Overpack/Load Management Container, radiological survey, and filter information used to enter data above.
 - [B] The completed Waste Container Data Report for the data submitted.
 - [C] Correspondence (e.g., memorandum/E-mail notifications).

4.8 Waste Certification (For Site-to-Site Shipments Only)

NOTE

The following section is only to be used for containers to be shipped to destinations other than WIPP. These containers are CCP containers that will be sent to a destination site other than WIPP for additional processing as needed. The steps that follow are for transportation only of the container to the site for additional processing and the return shipment from the additional processing location back to the original site. Only CCP-PO-003, *CCP Transuranic Authorized Methods for Payload Control (CCP-CH-TRAMPAC)*, parameters are required to be entered.

WCA

- 4.8.1 Obtain, from CCP Records, IDC or the SPM, a copy of the appropriate WSPF, BDRs, Packaging Records, AK Summary

Report, AK Tracking Spreadsheet, and radiological survey data as applicable.

- 4.8.2 Use copies of appropriate BDRs or other data sources, from CCP Records, IDC or the SPM, as listed in Table 1, to enter characterization data into the appropriate WDS Spreadsheet for each container record being used to support the WSPF.

WCA (Verifier)

- 4.8.3 Confirm the data entered into the WDS Spreadsheet for each container record by checking the data to confirm accuracy and completeness.
- 4.8.4 **IF** there are any discrepancies,
THEN the correction must be made by a WCA.
- 4.8.5 **IF** the discrepancies **CANNOT** be resolved,
THEN provide the WDS Spreadsheet to the WCO or SPM for resolution.
- 4.8.6 **WHEN** the WDS Spreadsheet is complete **AND** verified,
THEN enter initials and date verified in the Spreadsheet, print WDS Spreadsheet, **AND** submit to the WCO.

WCO

- 4.8.7 Verify the appropriate WDS Spreadsheet is being used.
- 4.8.8 Confirm that the WDS Spreadsheet contains accurate and complete information for the container by checking that the WCA has completed their input and review.
- 4.8.9 **IF** there are any open NCRs,
THEN verify that each container certified has no unresolved NCRs.
- 4.8.10 Review the waste stream information against the applicable Content Code and data sources to confirm the waste is **NOT** an incompatible waste.
- 4.8.11 Verify that the WDS Spreadsheet contains the correct WSPF Number, if applicable, for that container as listed in the AK Tracking Spreadsheet.
- 4.8.12 Verify at least one TRU isotope is greater than the LLD for waste containers.

4.8.13 Confirm the criteria on Attachment 2, have been met.

4.8.14 **IF** the Methane concentration is greater than or equal to 1,250 ppm,
THEN the container is NOT eligible for certification.

4.8.15 **IF** the Methane concentration is less than the MDL as indicated by
a "U" flag,
THEN adjust the Methane concentration to 2.5 percent of the
Hydrogen concentration, as appropriate.

4.8.16 **IF** GGT is indicated for the waste container,
THEN ensure that the shipping period of the selected Shipping
Category is valid for the testing period of GGT.

NOTE

A secondary visual check on the use of appropriate content codes will be
completed by another WCO prior to submitting containers to WDS.

4.8.17 **IF** the container can be shipped,
THEN sign and date the WDS Spreadsheet, **AND** forward to WCA
for submittal to WWIS/WDS.

4.8.18 **IF** container can NOT be shipped,
THEN proceed to step 4.8.19.

WCO

4.8.19 **IF** there is an issue with data,
THEN attempt to resolve issue with SPM.

4.8.20 **IF** a deficiency in data is identified after a Container Data Folder is
created and before submittal to the WWIS/WDS,
THEN perform the following:

[A] Write a description of the deficiency near the top of
Page 1 of the WDS Spreadsheet.

[B] Initiate an NCR in accordance with CCP-QP-005, as
necessary.

4.9 Waste Certification Data Submittal for Site-To-Site Shipments

WCA

NOTE

The WCA uses a macro (CreateTempTables) and ancillary worksheets that are part of the WDS Spreadsheet.

- 4.9.1 Request that QA confirms that each container being entered into the WDS Spreadsheet has NO unresolved NCRs, if applicable.

QA

- 4.9.2 Prepare a report verifying that each container has NO unresolved NCRs.

- 4.9.3 Forward report to WCA.

WCA

- 4.9.4 Generate tab-delimited files from the electronic WDS Spreadsheet corresponding to the WWIS Database Tables/WDS by selecting the Create Temp Tables button.

- 4.9.5 OPEN TempTables Folder to run batch programs, **AND** run concat_wds_files to copy all containers into upload files readable by WWIS/WDS.

- 4.9.6 LOG ON to the WWIS/WDS.

- [A] Select Data Upload Function.
- [B] Select Browse button to open Temp Tables folder.
- [C] Select the text files to be uploaded.
- [D] Select Intersite Shipping Module.
- [E] Select perform evaluations and do not save if fail, as applicable.
- [F] Select upload containers.
- [G] **IF** container upload is successful, **THEN GO TO** step 4.9.7.

- [H] **IF** container upload fails,
THEN select view exit codes or print error messages on screen, as applicable.
- [I] **IF** container transfer error(s) can be fixed,
THEN fix errors, **AND** repeat step 1.1.1[A] through 1.1.1[I] until successful, **OR** container errors **CANNOT** be fixed.
- [J] **IF** container transfer **CANNOT** be fixed,
THEN exit the system, **AND** return Container Data Folder to WCO.

4.9.7 **WHEN** complete,
THEN Open the TempTables Folder and RUN clean_container_files to clear the TempTables Folder of all upload file data.

WCO

4.9.8 **IF** a deficiency is identified after the container data are submitted to the WWIS/WDS,
THEN:

- [A] Request in writing CCP management approval to reject the container from the WWIS/WDS, if applicable, **AND**;
- [B] Initiate an NCR in accordance with CCP-QP-005, as necessary.

WCA

4.9.9 Compile the following items used in the submission of data to the WWIS/WDS, **AND** submit to CCP Records in accordance with CCP-QP-008:

- [A] The completed WDS Spreadsheet for each CH Packaging Payload Container submitted to and approved by the WWIS/WDS.
- [B] NCR check from QA E-mail.
- [C] Any correspondence (e.g., memorandum/E-mail notifications) associated.

5.0 RECORDS

5.1 Records generated during the performance of this procedure are maintained as QA records in accordance with CCP-QP-008. The records are the following:

5.1.1 QA/Lifetime

[A] Container Certification:

[A.1] WDS Spreadsheet

[A.2] Correspondence (memorandum/E-mail notifications)

[A.3] Radiological Survey Information, if applicable

[B] Overpack Certification:

[B.1] Overpack Data Report (for Overpacks only, e.g., TDOP, SWB)

[B.2] Radiological Survey Information, if applicable

[B.3] Correspondence (memorandum/E-mail notifications)

[C] WDS FGA Certification

[C.1] WDS FGA Spreadsheet

[C.2] Correspondence (memorandum/E-mail notifications)

Attachment 1 – Entering of Content Code and Shipping Category into the WWIS/WDS

1. INTRODUCTION

This attachment describes the steps used to enter assigned Content Codes into the WDS Spreadsheet using various sources of characterization data. Entering the Content Code is performed by the waste certification staff based on the waste material contents and the layers of packaging used for each container. Content Code assignment is reviewed and approved by the WCO during container certification.

2. ASSIGNING THE NUMERIC VALUE

Assign the Content Code based on the container waste stream assignment. The Content Code identified in AK will be confirmed by RTR and VE when performed, and to confirm the absence of incompatible waste in the waste stream. Enter the Content Code in WDS Spreadsheet.

3. ASSIGNING A LETTER DESIGNATOR FOR LEGACY WASTE

For retrievably-stored waste, the letter designator of the Content Code is assigned using packaging information from the following sources which are listed in order of priority of usage:

- VE BDRs, if available
- If RTR information is undetermined, use the default assignment given in (or determined from) the AK Summary Report for the applicable waste stream

4. OTHER

For waste packaged under a DOE CBFO audited and approved certification program (newly generated waste exempted from RTR), use the Content Code assigned in the packaging documents.

5. SHIPPING CATEGORY

After selection of appropriate Content Code using the CH-TRUCON or TRUCON-III, assign the Shipping Category number and document on the WDS Spreadsheet.

Attachment 2 – WCO Waste Certification Requirements

<p>Acceptable Container 55-gallon drums 85-gallon drums 100-gallon drums S100 POC S200 POC S300 POC SWB TDOP Standard Large Box 2 (SLB2) Shielded Container Assembly (SCA)</p>
<p>Gross Weight Limit 55-, 85- and 100-gallon drum – 1000lbs (453.6kg) 6" pipe POC- 328lbs (148.7kg) 12" pipe POC and gamma neutron shielded 12" pipe - 547lbs (248.7kg) S100 POC- neutron shielded 6" pipe - 550lbs (249.4kg) S200, S200B and S300 POC-547lbs (248kg) SWB – 4000lbs (1814.1kg) TDOP – 6700lbs (3038.5kg) SLB2 – 10500lbs (4761.9kg) SCA-2260lbs (1024.9kg)</p>
<p>Surface Contamination <20 (dpm)/100 cm² alpha & <200 dpm/100 cm² beta-gamma</p>
<p>Liner (if present) punctured filtered</p>
<p>Properly aspirated/ filter vents See CH-TRUCON document for all container types except SLB2 See TRUCON-III document for SLB2</p>
<p>Ten Required Isotopes AM-241; PU-238, -239, -240, -242; U-233, -234, -238; Sr-90; Cs-137. -1 value for LLD if expected. 0 value for LLD if not expected.</p>
<p>Pu-239 FGE + 2X error (Be ≤ 1 wt. %) ≤ 200 55-(excluding pipe overpacks), 85-, 100-gallon drum or SCA ≤ 325 SWB, TDOP, SLB2 ≤ 5 Kg Be & ≤ 200 55-gallon drum pipe overpack See WAC for machine compacted limits</p>
<p>Pu-239 FGE + 2X error (Be > 1 wt. %) ≤ 100 55- (excluding pipe overpacks), 85-, 100-gallon drum (up to 100kg) ≤ 100 SWB, TDOP, SLB2 (Be from AK) ≤ 140 Pipe overpacks (S100, S200 or S300 pipe overpack) See WAC for machine compacted limits</p>
<p>Be prohibited > 100 Kg/55-gallon Be > 18.14kg SWB, TDOP, SLB2 (Be from AK) >1% by weight SCA</p>
<p>Pu-239 Equiv. Activity (PE-Ci) ≤ 80 Drum (55-, 85- and 100-gallon), Shielded Container ≤ 560 (SWB, SLB2 direct load) < 800 (TDOP Direct Load) ≤ 1100 (good 55-gallon drum overpacked into 85-gallon drum) ≤ 1200 (good SWB into TDOP) ≤ 1200 (overpacked 55, 85 undamaged into SWB, TDOP) ≤ 1800 (pipe overpacks, S100, S200, S300) ≤ 1800 all solidified/vitrified waste</p>

Attachment 2 – WCO Waste Certification Requirements (Continued)

<p>Radiation Dose Equivalent < 200 millirem per hour (mrem/hr) contact <179 mrem/hr S100 pipe overpack <155 mrem/hr S300 pipe</p>
<p>Pyrophorics ≤1 % by weight (Radioactive) Non-radioactive pyrophorics – prohibited</p>
<p>Hazardous Waste Codes permitted for disposal at WIPP D001, D002 or D003 are not acceptable at WIPP</p>
<p>No explosives</p>
<p>No corrosives</p>
<p>No pressurized containers</p>
<p>PCBs Not all sites approved removed service date (Out-of-Service date), mass, type of waste (remediated or bulk)</p>