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CCP-TP-030

Revision 28

CCP
CH TRU Waste Certification and WWIS/WDS Data Entry

EFFECTIVE DATE: 05/12/2010

Larry Porter

PRINTED NAME

APPROVED FOR USE

RECORD OF REVISION

Revision Number	Date Approved	Description of Revision
4	05/21/2002	Deleted CCP-QP-012 out of Section 2.1 and 3.1.1; Added reference documents to 2.1; Revised Table 1; Updated Section 4.5, 4.6, 4.7, 4.8, 4.9, 5.0 and Attachment 1; Added Section 4.10, 4.11 and 4.12; Replaced spreadsheets in Attachment 2 and 4.
5	06/27/2002	Added records step to Section 4.11, changed equipment list to software list, added text for site specific CCP WWIS Spreadsheets. Fixed typos and clarifications throughout document and added text for Characterization Information Summary Report.
6	09/19/2002	Addition to 4.3.1 and change to Table 1.
7	01/08/2003	Revised this procedure to allow for the use of Overpack containers. Added Attachment 5.
8	03/26/2003	Additions to Sections 1.0, and 4.7 added new Section 3.5, added NOTE before steps 4.2, 4.3, 4.3.1, 4.3.9, and 4.3.10, 4.4 and 4.5
9	09/19/2003	Update procedure with new steps that were incorporated in the e-TRAMPAC program as well as to clarify existing steps. Changes to Sections 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, and 4.14. Revised Table 1 and Attachment 3. Added Reference DOE/WIPP 02-3220, *CH Packaging Operations for High Wattage Waste at LANL*.
10	12/17/2003	Add data and change wording in Table 1; delete Steps 4.14.8 [B], 4.6.8, 4.6.14[B] and 5.1.1 [B.2]; delete Note pertaining to e-QA; add Note before Step 4.4.2; modify Steps 4.5.9, 4.6.9, 4.6.14, 4.7.13, 5.1.1.
11	03/29/2004	Revised Sections 3.0 and 4.0. to clarify role of WWIS Data Entry Personnel, and in response to CAR# CAR-CCP-0001-04. Updated to implement CH-WAC Rev. 1.
12	08/23/2004	Response to CAR# CAR-SRS-0002-04, editorial and minor updates.
13	11/22/2004	Revised to incorporate the new requirements of the CH-TRAMPAC, Rev 1, WIPP Waste Acceptance Criteria, the latest revision of the WWIS, and DRR comments.
14	01/26/2005	Revised to incorporate CH TRAMPAC requirements for controlled shipments.
15	03/14/2005	Revised to incorporate LANL OSR Project.
16	04/22/2005	Add evaluation path for flammable gas generation rate containers, updates, and editorial.

RECORD OF REVISION (Continued)

Revision Number	Date Approved	Description of Revision
17	12/29/2005	Revised to add the new Characterization Data System (CDS) process. Changed WWIS Data Entry Personnel (WDEP) to Waste Certification Assistant (WCA) and additional clarifications. Revised due to changes in transportation functions performed by WWIS (Version 5.2).
18	05/01/2006	Revised to include step 4.5.7 flammable Headspace Gas (HSG) analytes measured above detection limit. Revised 4.3 Note to include CCP-PO-001, *CCP Transuranic Waste Characterization Quality Assurance Project Plan,* and CCP-PO-002, *CCP Transuranic Waste Certification Plan*. Editorial changes throughout.
19	11/16/2006	Revised to implement the Waste Isolation Pilot Plant Hazardous Waste Facility Permit requirements resulting from the Section 311/Remote-Handled (RH) Permit Modification Request (PMR) and to remove Transportation Certification Official (TCO) activities.
20	02/07/2007	Revised to include a new process for direct-loaded Standard Waste Boxes (SWBs) with nondestructive assay (NDA) data from the Super High Efficiency Neutron Counter (SuperHENC). Also includes updates to be more consistent with CCP-TP-530.
21	05/21/2007	Revised to incorporate response to Carlsbad Field Office (CBFO) Corrective Action Request (CAR) No. 07- 001 by proceduralizing the use of a separate spreadsheet for Imaging Passive/Active Neutron/Gamma Energy Analysis (IPAN) at Savannah River Site (SRS). Also, revised to remove Attachment 2, WWIS Data Spreadsheet (Example), and Attachment 5, WWIS Data Spreadsheet – IPAN (Example) and their associated references.
22	07/24/2007	Revised to include a new process for direct-loaded Standard Waste Boxes to roll-up Head Space Gas data. Also included updates to be more consistent with CCP-TP-530.
23	03/12/2008	Revised to include data entry into the Waste Isolation Pilot Plant (WIPP) Waste Information System (WWIS) of Flammable Gas Analysis (FGA) data generated by the Central Characterization Project (CCP) for non-CCP waste containers and additional editorial changes.

RECORD OF REVISION (Continued)

24	08/20/2008	Revised in response to Central Characterization Project Corrective Active 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 *Contact-Handled Transuranic Waste Authorized Methods for Payload Control* (CH-TRAMPAC).
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.

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LIST OF ATTACHMENTS

1.0 PURPOSE

The purpose of this procedure is to describe the steps the Central Characterization Project (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 TRUPACT-IIs 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-TP-120, *CCP Container Management*

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)*
- CCP-PO-001, *CCP Transuranic Waste Characterization Quality Assurance Project Plan*
- CCP-PO-002, *CCP Transuranic Waste Certification Plan*
- 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*

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 SRS IPAN TEMPLATE*.XLS

2.4.3 WWISMCLB.XLS

2.4.4 HSGNDATransfer.XLS

2.4.5 FGECheckU23511172004.XLS

2.4.6 concat_wds_files.bat

2.4.7 clean_container_files.bat

2.4.8 WDS FGA Template*.XLS

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 Data Administrator.

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 Provides the Data Administrator (DA) with a list of Waste Stream Profile Form (WSPF) numbers.

3.1.4 Submits the WSPF to the DA for review and approval in accordance with CCP-TP-002, *CCP Reconciliation of DQOs and Reporting Characterization Data*.

3.1.5 Notifies the WCO and WCA of approved WSPF.

3.1.6 Notifies the WCO and WCA of completed Lot Evaluation.

3.1.7 Serves as focal point for resolution of data issues.

3.2 CCP Quality Assurance (QA)

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

3.2.2 Confirms, individually and with an independent verification (does not have to be CCP Quality Assurance [QA]), that there are no unresolved NCRs and/or CARs 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 and the CCP Access List is updated as necessary.

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 Spreadsheets (WDS Master Template).

3.4 Waste Certification Assistant (WCA)

3.4.1 Works with the WCO to obtain access to the WWIS/WDS.

3.4.2 Gathers copies of data for each container from CCP Records or the Site Project Manager (SPM) that show data to be entered into the WDS Master Template.

3.4.3 Generates the WDS Master Template and has a second WCA confirm the data is transferred correctly to the WDS Master Template. The second data entry person verifies the information and places initials and date in the WDS Master Template prior to certification by the WCO.

3.4.4 Forwards the WDS Master Template to the WCO for certification.

3.4.5 Requests that CCP QA confirm that NCRs and/or CARs 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 Master Template 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.*

3.5 CCP Records Custodian

3.5.1 When applicable, receives and processes all records generated by this procedure in accordance with CCP-QP-008.

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 4.0 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 with a copy provided to the SPM.

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.

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 Lot Evaluation is complete.

4.3 Entering and Verifying Characterization Data Using the WDS Master Template

WCA

4.3.1 Obtain, from CCP Records 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.

NOTE

When entering data that has been analyzed by the Imaging Passive/Active Neutron (IPAN) instrument, the WCA must use the appropriate Savannah River Site (SRS) IPAN Template.

4.3.2 Use copies of appropriate BDRs or other data source, from CCP Records or the SPM, as listed in Table 1. Data Sources for the WDS Master Template, to enter characterization data into the appropriate WDS Master Template 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 SWB.

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

[A] **IF** the container is **NOT** a Standard Waste Box (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 Master Template 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 Master Template.

[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 Master Template.

[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 Master Template,
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 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 Master Template.

4.3.4 Enter CH TRU Waste Content Codes (CH-TRUCON) as described in Attachment 1, Entering of Content Code and Shipping Category into the WWIS/WDS.

4.3.5 Enter shipping categories as described in Attachment 1, if necessary.

4.3.6 Enter initials and submit the completed WDS Master Template to a second WCA for verification.

WCA (Verifier)

4.3.7 Confirm the data entered into the WDS Master Template for each container record by checking the data to confirm the accuracy and completeness of the data.

4.3.8 **IF** there are any discrepancies,
THEN the correction must be made by a WCA.

4.3.9 **IF** the discrepancies CAN **NOT** be resolved,
THEN provide the WDS Master Template to the WCO or SPM for resolution.

4.3.10 **WHEN** the WDS Master Template is complete and verified,
THEN enter initials and date verified in the spreadsheet, print WDS Master Template, **AND** submit to the WCO.

4.3.11 Request that CCP QA confirms that each container certified and entered into the WDS Master Template has **NO** unresolved NCRs and/or CARs, if applicable.

Table 1. Data Sources for the WDS Master Template

Field Label	Source
Characterization, Certification, and Shipping Data	
Shipper Site ID or Site ID Location ID Destination ID Shipping Purpose	AK Summary Report
Waste Stream Profile	AK Summary Report
Container ID Number or Container Number	Completed Lot Evaluation (Add "BN" to front of ID Number for the Advanced Mixed Waste Treatment Project [AMWTP] containers not being Overpacked); AK Tracking SS
Container Type	Packaging records; visual inspection; AK Summary Report; or designate for Overpacking, AK Tracking SS
Waste Acceptance Criteria (WAC) Rev #	DOE/WIPP-02-3122, *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant*
WAC Ex #	Executive Order Letter from U.S. Department of Energy (DOE) Carlsbad Field Office (CBFO) in CCP Records
Cert Site or Certified Site	WSPF or AK Summary Report
Cert Date or Certification Date	Date WCO certifies payload container
Waste Handling Code or Handling Code	CH Radioassay BDR; Radiological Characterization BDR; WSPF
Waste Type Number or Waste Type	WSPF or AK Summary Report (if no Hazardous Waste Numbers, enter TRU) TRU or mixed-TRU (MTRU)
Waste Stream Baseline Inventory Report (BIR) ID Waste Stream Mixed Waste Inventory Report (MWIR) ID	WSPF or AK Summary Report
Generator Site ID or Generator Site Item Description Code (IDC) or IDC Waste Matrix (parameter) Code or Matrix Code	WSPF or AK Summary Report AK Summary Report (not applicable [NA] if no IDC available)
Content Code	AK Summary Report, WSPF, Characterization Info. Summary. See Attachment 1 and the CH-TRUCON.
Shipping Category	CH-TRUCON
TRU Alpha Act TRU Alpha Act Uncertainty TRU Alpha Act Concentration (conc.) TRU Alpha Act Conc. Uncertainty 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.

Table 1. Data Sources for the WDS Master Template (Continued)

Field Label	Source
Layers of Packaging	VE BDR, RTR BDR 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
Liner Punctured or 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, and AK Tracking Spreadsheet
Aqueous Material Beryllium less than or equal to 100 kg Beryllium less than or equal to 1% Beryllium Present Machine Compacted	AK Tracking Spreadsheet or AK Summary Report
Closure Date	AK Tracking Spreadsheet, Remediated Drum Spreadsheet, AK Summary Report, FGA BDR, Headspace Gas (HSG) BDR
Vent Date	AK Tracking Spreadsheet, Remediated Drum Spreadsheet, AK Summary Report, FGA BDR, HSG BDR
Filter Install Date Filter Model Quantity	HSG BDR, FGA BDR, VE BDR, AK Tracking Spreadsheet, Remediated Drum Sheet, Drum Filter Change Out Form, or Container Inspection Report
Aspiration Method ID	AK Tracking Spreadsheet, Remediated Drum Spreadsheet, AK Summary Report HSG BDR, FGA BDR, Off-site Sealed Source Recovery (OSR) Project AK Summary Report
Gas Generation Rate Hydrogen/Methane Gen. Rate Gas Generation Completion Date	GGT BDR, Long Term Objective (LTO) as applicable
Gross Weight	VE BDR, Radiography BDR, CCP-TP-120, *CCP Container Management* (OSR only), or Scale Certification Data
Gross Weight Uncertainty	VE BDR, Radiography BDR, or Scale Certification Data, 2.3 kg may be entered as the bounding case where actual measurement data is not readily available
Alpha Surf Cont Beta/Gamma Surf Cont Neutron Dose Rate Beta/Gamma Dose Rate	Radiological Control Technician (RCT) Report
Radionuclide Data Radionuclide Activity (curie [Ci] Activity Uncertainty (Ci) Assay Method Data Radioassay Method Data Package Number Assay Date (actual assay date)	 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. Certification Letters

Table 1. Data Sources for the WDS Master Template (Continued)

Field	Source
Material Parameter Data WMP Weight of Material Parameter	VE BDR or Radiography BDR, AK Summary Report
Characterization Method Data Charz Method ID Data Package Number Charz Method Date	RTR, VE BDR
Hazardous Waste Numbers Data Hazardous Waste Numbers	WSPF or AK Summary Report
Date Sampled	HSG or Solids Analytical BDR, FGA BDR, OSR AK Summary Report
Method ID Analyte	HSG for CCP-PO-002 or Transportation, HSG, or Solids Analytical BDR, FGA BDR, OSR AK Summary Report , Certification Letters Analytical BDR
Concentration (% volume [vol.], milligram/kilogram [mg/kg], parts per million [ppm]) Date Analyzed	HSG or Solids Analytical BDR, FGA BDR, OSR AK Summary Report
Reporting Flag B Reporting Flag D Reporting Flag E Reporting Flag J Reporting Flag U Reporting Flag Z Reporting Flag H Reporting Flag N/A	HSG or Solids Analytical BDR, FGA BDR, OSR AK Summary Report

4.4 Waste Certification (By Container of Waste)

NOTE
Steps 4.4.1 through 4.4.15 can be performed in any order.

WCO

4.4.1 Verify the appropriate WDS Master Template 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 allowable, 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 Master Template 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/CARs,
THEN verify that each container certified has no unresolved NCRs/CARs.

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 Master Template 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 concentrations is greater than or equal to 1,250 parts per million (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** the HSG data is from composite sampling or analysis **AND** any flammable HSG analytes are measured above the MDL,
THEN multiply the measured value by the number of samples in the composite.

4.4.12 **IF** the NDA BDR was run on a version of Gamma-Ray Waste Assay Software (GWAS) prior to 2.3cGen **AND** either U-233 or U-235 is above LLD,
THEN recalculate the fissile gram equivalent (FGE) using FGECheckU23511172004.xls.

4.4.13 **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.

CCP QA

4.4.14 Prepare a report verifying that each container certified has **NO** unresolved NCRs and/or CARs.

4.4.15 Forward report to WCA.

NOTE

The designator "BN" must be added to the beginning of the Container ID 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

4.4.16 **IF** the container is certifiable,
THEN sign and date the WDS Master Template, **AND** forward to WCA for submittal to WWIS/WDS **AND** proceed to step 4.5.1.

4.4.17 **IF** container is **NOT** certifiable,
THEN proceed to step 4.4.18.

NOTE

To remove the HOLD on a Container Data Folder, a WCO must confirm deficiencies NO longer exist. Prior to submittal to the WWIS/WDS, step 4.4.14 must be performed.

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

4.4.19 **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 Master Template.

[B] Initiate an NCR in accordance with CCP-QP-005, *CCP TRU Nonconforming Item Reporting and Control,* as necessary.

4.5 Waste Certification Data Submittal

WCO or WCA

NOTE
The WCO or WCA uses a macro (CreateTmpTables) and ancillary worksheets that are part of the WDS Master Template.

NOTE
Prior to step. 4.5.1, steps 4.4.14 and 4.4.15 must be performed.

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

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

4.5.3 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 4.5.4.

[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 4.5.3[A] through 4.5.3[I] until successful, **OR** container errors CAN **NOT** be fixed.

[J] **IF** container transfer CAN **NOT** be fixed,
THEN exit the system, **AND** RETURN Container Data Folder to WCO.

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

4.5.5 **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.

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

[A] The completed WDS Master Template for each CH Packaging Payload Container submitted to and approved by the WWIS/WDS.

[B] NCR/CAR check from CCP QA e-mail.

[C] Any correspondence (e.g., memorandum/e-mail notifications) associated.

CCP Records Custodian

4.5.7 When applicable, receive and process all records generated by this procedure in accordance with CCP-QP-008.

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 Entering and Verifying FGA Data for Non-CCP Waste Containers using the WDS FGA Template.

WCA

[A] Obtain, from CCP Records or the WCO, a copy of the FGA BDRs.

[B] Use copies of FGA BDRs from CCP Records or a WCO as listed in Table 1 to enter FGA data into the appropriate WDS FGA Template for each waste container.

[C] Enter initials **AND** submit the completed WDS FGA Template 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 flammable gas analysis (FGA) sample date one day after the closure and vent.

[D] For Standard Waste Box(es) (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 Template.

WCA (Verifier)

[E] Confirm the data entered into the WDS FGA Template 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 a WCA for correction.

[E.2] **IF** the discrepancies CAN NOT be resolved,
THEN provide the WDS FGA Template to a WCO for resolution.

[E.3] **WHEN** the WDS FGA Template is complete **AND** verified,
THEN enter initials and date verified on the spreadsheet, and submit to the WCO.

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

WCO

[A] Verify the appropriate WDS FGA Template is being used.

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

NOTE

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

[C] **IF** the headspace 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.

[D] **IF** the headspace 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.

[E] **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.

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

[G] **IF** a deficiency in data is identified after a WDS FGA Template 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.

[H] **IF** the container is certifiable,
THEN sign and date the WDS FGA Template, **AND** forward to a WCA.

CCP QA

[I] Prepare report verifying that each non-CCP waste container being certified has **NO** unresolved CCP NCRs and/or CCP CARs.

[J] Forward report to WCA and WCO.

WCA

[K] Generate tab-delimited files from the electronic WDS FGA Template corresponding to the WWIS/WDS container record by selecting the Create Temp Tables Button.

[L] Open TempTables Folder to run batch programs, **AND** RUN concat_wds_files.to copy all containers into upload files readable by the WWIS/WDS.

[M] LOGON to the WWIS/WDS.

[M.1] Select Data Upload Function.

[M.2] Select Browse to find upload file.

[M.3] Select Certification.

[M.4] Select upload containers.

[N] **IF** container upload is successful,
THEN go to step 4.6.3[R].

[O] **IF** container upload fails,
THEN select view exit codes or print error messages on screen as applicable.

[P] **IF** container transfer error(s) can be fixed,
THEN fix errors, **AND** repeat steps 4.6.3[M] through 4.6.3[P] until successful, **OR** container errors CAN **NOT** be fixed.

[Q] **IF** container transfer error(s) CAN NOT be fixed,
THEN exit the system, **AND** RETURN Container Data Folder to WCO.

[R] Go to Container Certification Data Submittal.

[S] Open the Container in the WWIS/WDS container certification date submittal, **AND** enter all data that was not part of the WDS FGA Template flat files.

[T] Perform eTRAMPAC evaluation.

[U] **IF** non-CCP waste container fails the eTRAMPAC evaluation,
THEN submit to a WCO for resolution, **OR** initiate an NCR in accordance with CCP-QP-005, if applicable.

[V] **IF** non-CCP waste container passes the eTRAMPAC evaluation,
THEN submit the WDS FGA Template to a WCO.

[W] **WHEN** complete,
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 Template to confirm the accuracy and completeness of the data.

[Z] **IF** there are any discrepancies,
THEN submit to a WCA for correction.

[AA] **WHEN** data is accurate and complete,
THEN sign and date the WDS FGA Template.

NOTE

The WWIS/WDS Overpack Data Entry Module utilizes edit limit checks when data is 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 TCO's.

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 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.

4.7.8 Enter Beta/Gamma and Neutron dose rate.

4.7.9 Enter Shipping Purpose.

4.7.10 Enter the Closure and Vent Date of the Overpack/Load Management Container.

4.7.11 Enter the WAC revision number.

4.7.12 Enter Alpha Surface and Beta/Gamma Surface Contamination.

4.7.13 Enter filter model number, number of filters, and date or filter installation and add as applicable.

4.7.14 Select WAP, DSA, Data Integrity, WAC, and CHTES evaluation checkboxes, select execute checks, **AND**
IF fail,
THEN repeat steps 4.7.4 through 4.7.13 as applicable.

4.7.15 Generate Overpack Build List.

4.7.16 Send Overpack Build List to applicable TCO's.

4.7.17 Receive the Loading Form from the TCO and enter the required certification data, **AND** enter certification date.

4.7.18 Verify that the selected drums in the Overpack are from the same waste stream.

4.7.19 For the 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 the CCP Records Custodian:

[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 or the SPM, a copy of the appropriate 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 source, from CCP Records or the SPM, as listed in Table 1, to enter characterization data into the appropriate WDS Master Template for each container record being used to support the WSPF.

WCA (Verifier)

4.8.3 Confirm the data entered into the WDS Master Template for each container record by checking the data to confirm the accuracy and completeness of the data.

4.8.4 **IF** there are any discrepancies,
THEN the correction must be made a WCA.

4.8.5 **IF** the discrepancies CAN **NOT** be resolved,
THEN provide the WDS Master Template to the WCO or SPM for resolution.

4.8.6 **WHEN** the WDS Master Template is complete **AND** verified,
THEN enter initials and date verified in the spreadsheet, print WDS Master Template, **AND** submit to the WCO.

4.8.7 Request that CCP QA confirms that each container being entered into the WDS Master Template has **NO** unresolved NCRs and/or CARs, if applicable.

WCO

4.8.8 Verify the appropriate WDS Master Template is being used.

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

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

4.8.11 Review the waste stream information against the applicable Content Code and data sources to confirm the waste is **NOT** an incompatible waste.

4.8.12 Verify that the WDS Master Template contains the correct WSPF Number, if applicable, for that container as listed in the AK Tracking Spreadsheet.

4.8.13 Verify at least one TRU isotope is greater than the LLD for waste containers.

4.8.14 Confirm the criteria on Attachment 2, WCO Waste Certification Requirements, have been met.

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

4.8.16 **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.

4.8.17 **IF** the HSG data is from composite sampling or analysis **AND** any flammable HSG analytes are measured above the MDL,
THEN multiply the measured value by the number of samples in the composite.

4.8.18 **IF** the NDA BDR was run on a version of GWAS prior to 2.3cGen **AND** either U-233 or U-235 is above LLD,
THEN recalculate the FGE using FGECheckU23511172004.XLS.

4.8.19 **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.

CCP QA

4.8.20 Prepare a report verifying that each container has **NO** unresolved NCRs and/or CARs.

4.8.21 Forward report to WCA.

WCO

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

4.8.23 **IF** container can NOT be shipped,
THEN proceed to step 4.8.26.

WCA

4.8.24 Proceed to step 4.9.

WCO

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

4.8.26 **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 Master Template.

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

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

WCO or WCA

NOTE
The WCO or WCA uses a macro (CreateTempTables) and ancillary worksheets that are part of the WDS Master Template.

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

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

4.9.3 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 4.9.4

[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 4.9.3[A] through 4.9.3[I] until successful, **OR** container errors CAN **NOT** be fixed.

[J] **IF** container transfer CAN NOT be fixed,
THEN exit the system, **AND** return Container Data Folder to WCO.

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

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

[A] Request in writing (e.g., e-mail), with management approval, that the DA reject the container from the WWIS/WDS, if applicable, **AND**

[B] Obtain confirmation (e.g., e-mail) from the DA that the container is on HOLD **OR** rejected, if applicable, **AND**

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

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

[A] The completed WDS Master Template for each CH Packaging Payload Container submitted to and approved by the WWIS/WDS.

[B] NCR/CAR check from CCP 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 Master Template

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

[A.3] Radiological Survey Information, if applicable

[A.4] WDS FGA Template

[B] Overpack Certification:

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

[B.2] Radiological Survey Information

[B.3] 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 Master Template 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 Master Template.

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 DOE/WIPP-01-3194, *CH-TRU Waste Content Codes (CH-TRUCON),* assign the Shipping Category number and document on the WDS Master Template.

Attachment 2 – WCO Waste Certification Requirements

Acceptable Container 55-gallon drums, 100-gallon drums SWB TDOP
Gross Weight 55-gallon drum – varies (1000/453.6 kg max) SPO 6" pipe- <328 SPO 12" pipe, and gamma, neutron shielded 12" pipe - <547 SPO neutron shielded 6"- <550 SWB – 4000 lbs TDOP – 6700 lbs
Surface Contamination <20 dpm/100 cm^2 alpha & <200 dpm/ 100 cm^2 beta-gamma
Liner (if present) punctured filtered
Properly aspirated/ filter vents Drum – 1 SWB – 1 to 4: See Minimum Filter Vent Specifications of CCP-PO-003. For LA154 or SQ154, a minimum of 4 approved filters are required in accordance with Section 6.12 of CH TRU Payload Appendices. TDOP – 1 to 10: See Minimum Filter Vent Specifications of CCP-PO-003. For LA154 or SQ154, a minimum of 9 approved filters are required in accordance with Section 6.12 of CH TRU Payload Appendices.
Ten Required Isotopes: AM 241; PU238, 239, 240, 242; U 233, 234, 238; Sr90; Cs137. -1 value for LLD if expected 0 value for LLD if not expected.
Pu-239 FGE + 2X error (Be ≤ 1 wt. %,) ≤ 200 (55-gallon drum) ≤ 325 SWB, TDOP ≤ 5 Kg Be & ≤ 200 55-gallon drum pipe overpack
Pu-239 FGE + 2X error (Be > 1 wt. % </= Pu-239 FGE) ≤ 100 (Drum, SWB, TDOP) (Be from AK)
Be prohibited > 100 Kg/55-gal Be > 18.14kg SWB, TDOP (Be from AK)
Pu-239 Equiv. Activity < 80 Drum < 560 (SWB, 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
Radiation Dose Equivalent < 200 mrem/hr contact, except S100 pipe overpack < 179 mrem/hr & S300 pipe < 155 mrem/h
Pyrophorics Radioactive < 1 w/o Non-rad. pyrophorics – prohibited
Hazardous Waste Codes permitted for disposal at WIPP
No explosives
No corrosives
No pressurized containers
PCBs Not all sites approved removed service date, mass, type of waste
Closure and Vent Date correct
Lot ID
Correct/Most Current BDR