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CCP-TP-530

Revision 9

CCP
RH TRU Waste Certification and WWIS/WDS Data Entry

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APPROVED FOR USE

RECORD OF REVISION

Revision Number	Date Approved	Description of Revision
0	04/25/2006	Initial issue.
1	05/05/2006	Revised to address CBFO comments.
2	06/15/2006	Revised to address concerns raised during the Idaho National Laboratory (INL) Remote-Handled (RH) Audit A-06-21.
3	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.
4	04/20/2007	Revised to incorporate guidance for assignment of packaging material weight for RH canister assembly and to perform miscellaneous editing.
5	07/23/2007	Revised to include the CNS 10-160B information.
6	06/25/2008	Revised to include the process for submitting transportation data only for the Battelle Columbus Laboratory (BCL) waste at Savannah River Site (SRS) using the CNS 10-160B.
7	07/11/2008	Revised to address comments from the Remote-Handled (RH)-Oak Ridge National Laboratory (ORNL) Audit as well as remove any reference to the Characterization Data System (CDS) Waste Certification Official (WCO) Review Form.
8	09/09/2009	Revised to remove Section 4.4.24 in response to CAR-RHLANL-0001-09 as well as minor editorial changes.
9	12/11/2009	Revised to allow use of the Waste Data System (WDS) as well as include steps for canisters measuring <200 millirem (mRem) per Central Characterization Project (CCP)-Standing Order (SO)-042.

TABLE OF CONTENTS

1.0 PURPOSE 4
1.1 Scope 4

2.0 REQUIREMENTS 4
2.1 References 4
2.2 Training Requirements 5
2.3 Equipment List 6
2.4 Software 6
2.5 Precautions and Limitations 6
2.6 Prerequisite Actions 6
2.7 Definitions 6

3.0 RESPONSIBILITIES 6
3.1 Site Project Manager (SPM) or Designee 6
3.2 CCP Quality Assurance (QA) 7
3.3 Waste Certification Official (WCO) or Designee 7
3.4 Acceptable Knowledge (AK) Expert 8
3.5 Waste Certification Assistant (WCA) 8
3.6 CCP Records Custodian 8

4.0 PROCEDURE 9
4.1 Obtaining and Changing Access to the WWIS/WDS 9
4.2 Submitting the WSPF Number to the DA 9
4.3 Entering and Verifying Characterization Data Using the RH WDS Master Template 10
4.4 Waste Certification (By Container of Waste) 15
4.5 Waste Certification WWIS/WDS Submittal 19
4.6 Container Selection and certification for RH TRU 72-B waste canister using the WWIS/WDS 22
4.7 Reviewing and Submitting BCL transportation data to WWIS/WDS 24

5.0 RECORDS 26

LIST OF TABLES

Table 1. Data Sources for the RH WDS Master Template 13

LIST OF ATTACHMENTS

Attachment 1 – Entering of Content Codes into WWIS/WDS 27

1.0 PURPOSE

The purpose of this procedure is to describe the steps the Central Characterization Project (CCP) uses for certifying remote-handled (RH) 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 and payload assemblies in the RH TRU 72-B and the CNS 10-160B transportation casks that are intended 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 the RH TRU 72-B and/or the CNS 10-160B transportation casks. 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 RH 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. This procedure describes the process for entering transportation data for the Battelle Columbus Laboratory (BCL) Savannah River Site (SRS) waste using the CNS 10-160B.

This procedure also describes the steps for entering data into the WWIS/WDS for site-to-site waste shipments.

2.0 REQUIREMENTS

2.1 References

Baseline Documents

- CCP-QP-022, *CCP Software Quality Assurance Plan*

Referenced Documents

- DOE/CBFO-09-3427, *Waste Data System User's Manual*
- DOE/WIPP 90-045, *RH-TRU Waste Content Codes* (RH-TRUCON)

- CCP-AK-SRS-501, *Central Characterization Project Remote-Handled Transuranic Radiological Characterization Technical Report For Remote-Handled Transuranic Debris Waste From Battelle Columbus Laboratory's Decommissioning Project At the West Jefferson Facility*

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

- CCP-PO-002, *CCP Transuranic Waste Certification Plan*

- CCP-PO-505, *CCP Remote-Handled Transuranic Waste Authorized Methods for Payload Control* (CCP RH-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-500, *CCP Remote-Handled Waste Visual Examination*

- CCP-TP-506, *CCP Preparation of the Remote-Handled Transuranic Waste Acceptable Knowledge Characterization Reconciliation Report*

- Safety Analysis Report for Model CNS 10-160B Type B Radwaste Shipping Cask, Appendix 4.10.2.1, *Compliance Methodology for TRU Waste from Battelle Columbus Laboratories.* Duratek, Inc.

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/CBFO-09-3427, *Waste Data System User's Manual*.

2.3 Equipment List

2.3.1 None.

2.4 Software

NOTE

An "*" is a wild card used to indicate the version number included in a software name.

2.4.1 RH WDS Master Template*.xls

2.4.2 concat_WDS_files.bat

2.4.3 clean_container_files.bat

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 transportation, as applicable, and submits to the WCO and WCA.

3.1.3 Provides the 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,* and CCP-TP-506, *CCP Preparation of the Remote-Handled Transuranic Waste Acceptable Knowledge Characterization Reconciliation Report*.

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 that there are no unresolved NCRs 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 the 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 CCP RH WDS Master Template.

3.3.4 Reviews the data for the container as identified on the RH WDS Master Template to be submitted for transportation purposes only.

3.3.5 Notifies Transportation Certification Official (TCO) of the WWIS/WDS Certification Module approval, if necessary.

3.3.6 Notifies the TCO of containers that are approved for Controlled Shipment, if necessary.

3.4 Acceptable Knowledge (AK) Expert

3.4.1 Extracts the necessary information for site-to-site waste shipments.

3.4.2 Works with the WCA, WCO, and DA for WWIS/WDS data input for site-to-site waste shipments.

3.5 Waste Certification Assistant (WCA)

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

3.5.2 Obtains copies of data for the RH WDS Master Template for each container from CCP Records or the SPM.

3.5.3 Generates the RH WDS Master Template and has a second WCA confirm the data is transferred correctly to the RH WDS Master Template. The second data entry person verifies the information prior to certification by the WCO.

3.5.4 Forwards the RH WDS Master Template to the WCO for certification.

3.5.5 Requests that CCP QA confirm that NCRs and CARs associated with containers to be certified have been resolved as appropriate, via electronic mail (e-mail).

3.5.6 Submits the container data from the RH WDS Master Template to the WWIS/WDS Characterization and/or Certification Modules, as applicable.

3.5.7 Submits data package to CCP Records Custodian in accordance with CCP-QP-008, *CCP Records Management*.

3.6 CCP Records Custodian

3.6.1 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/CBFO 09-3427).

4.1.2 Request WWIS/WDS access for each person by requesting the WDS access form from the Data Administrator 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 personnel are to be granted access, those personnel will contact the DA to receive WWIS/WDS training and a WWIS/WDS username in accordance with the DOE/CBFO 09-3427.

NOTE

Section 4.2 is **NOT** required for site-to-site waste shipments.

4.2 Submitting the WSPF Number to the DA

SPM

4.2.1 Obtain the WSPF Number in accordance with CCP-TP-002.

4.2.2 Request the DA to 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 Characterization, **AND** submit the list to the WCO and WCA for WSPF approval.

4.2.6 Develop a list of containers from an approved WSPF for certification, **AND** submit the list to the WCO and WCA when the Lot Evaluation is complete.

NOTE

Review and submittal of BCL transportation data, only using the CNS 10-160B, is performed in accordance with Section 4.7 (for disposal see 4.7.4).

NOTE

For site-to-site waste shipments, the required information may be obtained from the AK Expert. This Data will come from the process knowledge documentation. For site-to-site shipments not qualified under CCP-PO-505, *CCP Remote-Handled Transuranic Waste Authorized Methods for Payload Control* (CCP RH-TRAMPAC), the data will be recorded from the approved shipping plan. The source data column in Table 1, Data Sources for the RH WDS Master Template, DOES **NOT** apply to site-to-site waste shipments. CCP-PO-001, *CCP Transuranic Waste Characterization Quality Assurance Project Plan*, and CCP-PO-002, *CCP Transuranic Waste Certification Plan*, information is **NOT** required to be entered.

4.3 Entering and Verifying Characterization Data Using the RH WDS Master Template

NOTE

For site-to-site waste shipments, verification may be from data received from the AK Expert.

WCA

4.3.1 Obtain from CCP Records or the SPM, a copy of the appropriate WSPF, Batch Data Reports (BDRs), Packaging Records, AK Summary Report, AK Tracking Spreadsheet, and radiological survey data for the list of candidate containers for certification, as applicable.

4.3.2 Request via email that CCP QA confirm that each container being certified and entered into the RH WDS Master Template has NO unresolved NCRs and CARs.

4.3.3 Use the copies of the appropriate BDR or other data source, from CCP Records or the SPM, as listed in Table 1, to enter characterization data into the appropriate site-specific RH WDS Master Template, for each container record used to support the WSPF.

NOTE

The designator "H" must be added to the end of the Container Identification (ID) Number for all waste containers overpacked into a 55-gallon drum as identified on the applicable AK Tracking Spread Sheet. This will be the new Container ID Number. (This does not apply to CNS 10-160B transportation data).

4.3.4 Enter RH TRU Waste Content Codes (Content Codes) as described in Attachment 1, Entering of Content Codes into WWIS/WDS, as required.

4.3.5 **IF** a 30-gallon container is packaged into a 55-gallon container, **AND** the Dose-to-Curie (DTC) was performed on the 30-gallon container,
THEN add the tare weight of the 55-gallon container to the gross weight of the 30-gallon container to obtain the new gross weight.

4.3.6 Forward the completed RH WDS Master Template to a second WCA for verification.

WCA (Verifier)

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

4.3.8 **IF** data is accurate **AND** complete,
THEN enter initials and the date verified on the RH WDS Master Template.

4.3.9 **IF** there are any discrepancies,
THEN resolve the discrepancies with original WCA, if applicable, **AND** return to step 4.3.8.

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NOTE

For site-to-site shipments, contact the WCO/AK Expert if discrepancies CAN **NOT** be resolved.

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

NOTE

For site-to-site waste shipments, the WCO or the AK Expert will review the data prior to submittal to the WWIS/WDS.

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4.3.11 **WHEN** the RH WDS Master Template is complete **AND** verified,
THEN forward to the WCO.

Table 1. Data Sources for the RH WDS Master Template

Field Label	Source
Characterization, Certification and Shipping Data	
Shipper Site ID or Site ID	AK Summary Report
Location ID Destination Program ID Shipping Purpose	AK Summary Report
Waste Stream Profile	AK Summary Report; WSPF
Container ID Number or Container Number	Completed Lot Evaluation (Ensure payload container has a unique site-identifier prefix.) For all waste containers overpacked into a 55-gallon drum as identified on the applicable AK Tracking Spread Sheet, include an "H" at the end of the drum number.
Container Type	Packaging records; visual inspection; AK Summary Report; Associated BDRs
WAC Rev #	DOE/WIPP-02-3122, *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant*
WAC Ex #	Executive Order Letter from the 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	RH from Dose to Curie BDR; Radiological Characterization Report; WSPF; AK Summary Report
Waste Type Number or Waste Type	WSPF or AK Summary Report (If no hazardous waste numbers, enter TRU) If hazardous number(s) apply, enter "MTRU."
Waste Stream Baseline Inventory Report (BIR) ID Waste Stream Mixed Waste Inventory Report (MWIR) ID	WSPF or AK Summary Report (If not applicable, enter NONE)
Generator Site ID or Generator Site Item Description Code (IDC) Code or IDC Waste Matrix (parameter) Code or Matrix Code	WSPF or AK Summary Report (NONE if no IDC available)
Content Code or TRUCON Code	Remote-Handled Transuranic Content Codes, AK Summary Report, WSPF, Characterization Info. Summary. See Attachment 1.
TRU Alpha Act TRU Alpha Act Uncertainty TRU Alpha Act Concentration (conc.) TRU Alpha Act Conc. Uncertainty Pu239 fissile Gram Equivalent Pu-239 Fissile Gram Equivalent Uncertainty Pu-239 eq. act. Decay Heat Decay Heat Uncertainty	Waste Container Dose-to-Curie Conversion Record (DTC BDR), Radiological Characterization Report AK record for BCL waste
Layers of Packaging	Visual Examination (VE) BDR; Radiography BDR; AK Summary Report; WSPF
Fill Factor	Dose-to-Curie BDR, Radiological Characterization Report
Liner Type or Liner Exists	VE BDR. Radiography BDR; AK Summary Report; RH Content Code Document

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

Field Label	Source
Liner Punctured or Liner Hole Size Liner Lid Present	VE BDR. Radiography BDR or AK Summary Report. No liner lid indicates liner is vented with default hole size of 457.2 mm for 30-gallon drum and 478 mm for 55-gallon drum.
Polychlorinated Biphenyl (PCB) Waste, PCB Concentration, PCB Mass PCB Out-Of-Service Date	WSPF or AK Summary Report. If yes, then PCB mass = net weight and PCB out-of-service = Closure date.
Aqueous Material Beryllium Present Beryllium less than or equal to 100 kg Beryllium less than or equal to 1% Machine Compacted Beryllium chemically/mechanically bound	AK Tracking Spreadsheet or AK Summary Report
Closure Date	AK Tracking Spreadsheet, Remediated Drum Spreadsheet, or AK Summary Report, Canister Loading Data Sheet
Vent Date	AK Tracking Spreadsheet, Remediated Drum Spreadsheet, or AK Summary Report, Canister Loading Data Sheet
Filter Install Date Filter Model Number of filters installed	Headspace Gas BDR, VE BDR, RTR BDR, AK Tracking Spreadsheet or Remediated Drum Sheet, Canister Loading Data Sheet, AK Summary Report
Aspiration Method ID	AK Tracking Spreadsheet, Remediated Drum Spreadsheet, AK Summary Report Headspace Gas BDR, Project AK Summary Report
Gross Weight	Waste Container Dose-to-Curie Conversion Record (DTC BDR) or Scale Certification Data, Canister Loading Data Sheet, Radiological Characterization Report
Gross Weight Uncertainty	VE BDR, Radiography BDR, or Scale Certification Data, Canister Loading Data Sheet, Bounding Case for drums loaded in canisters (2.3 kg)
Alpha Surf Cont Beta/Gamma Surf Cont Neutron Dose Rate Beta/Gamma Dose Rate	RCT Report RCT Report RCT Report RCT Report
Radionuclide Data Radionuclide Activity (Ci) Activity Uncertainty (Ci) **Assay Method Data** Radioassay Method Data Package Number Assay Date (actual assay date)	 Waste Container Dose-to-Curie Conversion Record, DTC BDR canister loading sheet Radioassay BDR, Radiological Characterization BDR/Radiological Characterization Report WWIS/WDS Reference Tables/Library; Certification Letters Dose-to-Curie BDR, Radiological Characterization Report Dose-to-Curie BDR, Radiological Characterization Report
Material Parameter Data Waste Material Parameter Waste Weight	 VE BDR or Real-Time Radiography (RTR) BDR Waste Container Dose-to-Curie Conversion Record (DTC BDR), Radiological Characterization Report

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

Field Label	Source
Characterization Method Data	
Charz Method ID	WWIS/WDS Reference Table/Library; Certification Letters
Data Package Number	VE or RTR BDR
Charz Method Date	VE or RTR BDR
Hazardous Waste Numbers Data	
Hazardous Waste Numbers	WSPF or AK Summary Report
Date Sampled	Headspace Gas or Solids Analytical BDR, N/A for canister, AK Sufficiency
Method ID Data Package # Analyte Sample ID Sample Type Layer Sampled	WWIS/WDS Reference Table/Library; Certification Letters Headspace Gas or solids analytical BDR, AK Sufficiency
Units (% vol., mg/kg, ppm) Concentration Date Analyzed	Headspace Gas or solids analytical BDR, AK Sufficiency
Cas # Reporting Flag B Reporting Flag D Reporting Flag E Reporting Flag J Reporting Flag U Reporting Flag Z Reporting Flag N/A	Headspace Gas or solids analytical BDR
Flammable VOCs < 500 ppm	AK Summary Report, Content Code, Process Knowledge Summary Report

NOTE

Section 4.4 is **NOT** required for site-to-site waste shipments.

4.4 Waste Certification (By Container of Waste)

WCO

4.4.1 Verify the appropriate WWIS/WDS Data Entry RH WDS Master Template is being used.

4.4.2 Confirm that the TRU alpha activity concentration is greater than 100 nanocuries per gram (nCi/g) for each container.

4.4.3 Confirm that the RH 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 confirm that, for the container you are certifying, all issues associated with the open NCRs/CARs have been resolved.

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 RH 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 lower limit of detection (LLD).

4.4.8 Ensure that each payload container has a site-specific identifier as a prefix to the Container ID Number.

NOTE

For debris waste (S5000), the WCO will assess the data for the container to assign the material parameter weights. In steps 4.4.9 and 4.4.10, the WCO will compare the material parameter data (waste weights in kg) to the number obtained by multiplying the volume of the waste container by the maximum loading density of plastic (620 kg/m^3).

4.4.9 **IF** the calculated weight of the plastic is greater than or equal to the waste weight (kg) of the container,
THEN enter the waste weight of the container as “Plastic” in the RH WDS Master Template.

4.4.10 **IF** the calculated weight of the plastic is less than the waste weight (kg) of the container,
THEN enter the calculated weight as “Plastic” in the RH WDS Master Template, **AND** assign in the RH WDS Master Template the remaining waste weight to the waste material per the percentages as identified in the applicable waste stream AK Summary Report.

NOTE

For soil/gravel waste (S4000), the WCO will assess the data for the container to determine the estimated weight of cellulose, plastics, and rubber (CPR) for any reported debris material. In steps 4.4.11 and 4.4.12, the WCO will review the data and confirm that the derived weight entered into RH WDS Master Template for any debris material reported will have a waste material parameter type of "Plastic."

4.4.11 **IF** the container (S4000) DOES **NOT** contain any debris material, **THEN** assign the net weight of the container as waste material parameters of "Soil" in the RH WDS Master Template.

4.4.12 **IF** the container (S4000) does contain any debris material, **THEN** enter the estimated weight of the debris as "Plastic" and the remaining net weight of the container as "Soil" in the RH WDS Master Template.

NOTE

For homogeneous solid waste (S3000), the WCO will assess the data for the container to determine the estimated weight of CPR for any reported debris material. In steps 4.4.13 and 4.4.14, the WCO will review the data and confirm that the derived weight entered into RH WDS Master Template for any debris material reported will have a waste material parameter type of "Plastic."

4.4.13 **IF** the container (S3000) DOES **NOT** contain any debris material, **THEN** assign the net weight of the container as waste material parameter type appropriate to the waste (e.g., solidified inorganic material, solidified organic material, cement) in the RH WDS Master Template.

4.4.14 **IF** the container (S3000) does contain debris material, **THEN** enter the estimated weight of the debris as "Plastic" and the remaining net weight of the container as the waste material parameter type appropriate to the waste (e.g., solidified inorganic material, solidified organic material, and cement) in the RH WDS Master Template.

NOTE

For submitting BCL data for transportation only, proceed to Section 4.7.

4.4.15 **IF** the container is certifiable, **THEN** sign and date the RH WDS Master Template **AND** forward to WCA for submittal to WWIS/WDS.

4.4.16 **IF** container is **NOT** certifiable,
THEN proceed to step 4.4.20.

WCA

4.4.17 Request, via e-mail, that CCP QA confirm that each container being certified and entered into the WWIS/WDS has NO unresolved NCRs and CARs, if applicable.

CCP QA

4.4.18 Prepare report verifying that each container being certified has NO unresolved NCRs and CARs.

4.4.19 Forward report to WCA.

WCO

NOTE

To remove the HOLD on a Container Data Folder, a WCO must confirm deficiencies NO longer exist.

NOTE

Prior to submittal to the WWIS/WDS, WCO/WCA and QA must perform step 4.4.17 through 4.4.19, as applicable.

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

[A] **IF** resolved,
THEN proceed to Step 4.5.

4.4.21 **IF** a deficiency in data is identified after a Container Data Folder is created and before submittal to the WWIS/WDS and CAN **NOT** be resolved with SPM,
THEN perform the following:

[A] Initiate an NCR in accordance with CCP-QP-005, *CCP TRU Nonconforming Item Reporting and Control*, as directed by the SPM.

[B] Place the Container Data Folder in the WCO Hold Drawer until disposition is met.

NOTE

Data entry for site-to-site waste shipments shall be submitted into the Intersite Shipping Module within the WWIS/WDS.

NOTE

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

NOTE

If required, for filtered waste containers or containers requiring inner can data, the data required by WWIS/WDS for the inner cans will be entered as applicable based on an individual container basis (inner can ID, decay heat, decay heat uncertainty, closure date, vent date, filter diffusivity, flammable gas generation rate or hydrogen concentration, and sample date) after the waste containers are entered into the WWIS/WDS.

4.5 Waste Certification WWIS/WDS Submittal

WCO or WCA

4.5.1 Generate tab-delimited files from the electronic WWIS/WDS DATA RH WDS Master Template corresponding to the WWIS/WDS Temporary Database Tables by selecting the CREATE TMP TABLES.

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

4.5.3 Log on to WWIS/WDS.

[A] Select DATA UPLOAD FUNCTION .

[B] Select BROWSE to open the Temptables 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 if applicable.

[F] Select UPLOAD CONTAINERS.

[G] **IF** container upload is successful,
THEN GO TO step 4.5.4 if inner can data is required or GO TO step 4.5.5 if complete.

[H] **IF** container upload fails,
THEN select VIEW EXIT CODES **OR** print error messages on screen as applicable.

[I] **IF** container upload error(s) can be fixed,
THEN fix errors, **AND** repeat steps 4.5.1 through 4.5.3[H] until successful **OR** container CAN **NOT** be fixed.

[J] **IF** container transfer CAN **NOT** be fixed,
RETURN Container Data Folder to WCO.

NOTE

For containers with inner can data and/or data for a 30-gallon container overpacked into a 55-gallon container, follow Steps 4.5.4 through 4.5.5. Once complete proceed to step 4.5.7.

NOTE

A unique Inner Container ID must be entered using the 55-gallon number with an H suffix when a 30-gallon container is overpacked into a 55-gallon container in the Inner Can Data in WWIS/WDS.

4.5.4 Select CONTAINER CERTIFICATION DATA SUBMITTAL/CONTAINER CHARACTERIZATION DATA SUBMITTAL based on whether or not the waste stream is approved

[A] Select SEARCH and enter the container number and select SEARCH.

[B] Select applicable container.

[C] Select INNER LAYER and enter the applicable data.

[D] Select SUBMIT for approval.

4.5.5 **WHEN** complete,
THEN exit the system AND open the temptables folder and RUN clean_container_files.bat to clear the temptables folder of all upload file data.

4.5.6 **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 CCP Management approval, that the Data Administrator reject the container from the WWIS/WDS, if applicable, AND

[B] Obtain confirmation (e.g., email) from the Data Administrator that the container is rejected, if applicable.

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

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

[A] The completed RH WDS Master Template for each container submitted to and approved by the WWIS/WDS

[B] The completed WWIS/WDS Transportation Only RH WDS Master Template for each Packaging Container submitted to and approved by the WWIS/WDS

[C] NCR/CAR check from CCP QA e-mail (not applicable for BCL transportation data)

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

CCP Records Custodian

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

NOTE

The WWIS/WDS Canister Planning and Completion Module utilizes edit and 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 TCOs.

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NOTE

The recommended container selection for the canister can either be provided by the Host site, based on ALARA needs for movement of the drums and container retrievability, or determined by the WCO.

NOTE

Some 55-gallon containers loaded into the Removable Lid Canister use an RH TRU Drum Handling Bag (lift bag). The lift bag weighs 1.42 kg and is made of polyester fabric. The lift bag can not be retrieved from the canister after loading.

WCO

4.6 Container Selection and certification for RH TRU 72-B waste canister using the WWIS/WDS

4.6.1 LOGON to the WWIS/WDS.

4.6.2 Select CANISTER PLANNING and COMPLETION.

4.6.3 Select NEW.

4.6.4 Enter applicable data in the Canister Information Section as follows, then select SEARCH.

[A] Canister Configuration Type

[B] Certification Program ID

[C] Current Location

[D] Destination Site ID

[E] Shipping Program ID

[F] Waste Stream Profile Code

4.6.5 Select the appropriate containers from the Candidate Containers Section.

4.6.6 Select ACCEPT.

4.6.7 Enter the Canister number in the Enter Container Number field and select ACCEPT.

4.6.8 **ONCE** the Canister Plan is accepted, **THEN** enter the remaining applicable canister information for Certification.

4.6.9 Generate the Build List and provide to TCO as applicable.

4.6.10 **IF** the canister requires a controlled shipping period,
THEN the WCO will indicate on the Build List.

4.6.11 Receive the Loading Form from the TCO and enter the required certification data.

4.6.12 **IF** 55-gallon container(s) is used for canister loading **AND** a lift bag is used,
THEN add 1.42 kg of plastic/liner container material per 55-gallon container used for loading.

4.6.13 **IF** the canister dose rate from the TCOs is < 200 mRem **AND** all inner containers are > 200 mRem,
THEN use the highest dose rate from the inner containers.

4.6.14 SUBMIT the canister for approval.

4.6.15 After successful submittal for approval, print the Canister Data Report, date and sign with title.

4.6.16 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 RH TRU waste canister, radiological survey, and filter information used to enter data above

[B] The completed Canister Data Report for the data submitted

[C] Correspondence (e.g., memorandum/e-mail notifications).

<u>CCP Records Custodian</u>

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

NOTE

Section 4.7 is used ONLY when submitting transportation data to WWIS/WDS for SRS BCL waste using the CNS 10-160B. To certify SRS BCL waste using the RH TRU 72-B, Sections 4.1 through 4.6 are used.

NOTE

Source documents are the Fluor-Hanford data (radionuclide data and VE data), AK Tracking Spreadsheet, DD-98-04, Duratek Certificate of Compliance, and the Duratek Safety Analysis Report (SAR).

4.7 Reviewing and Submitting BCL transportation data to WWIS/WDS

4.7.1 Submit the transportation data using the applicable source documents (as indicated in the NOTE above) using Section 4.3 through step 4.4.14.

[A] When entering the BCL data for transportation only you must include all reportable nuclides including all WIPP-tracked nuclides.

[B] Enter the TRU Alpha Activity as the value of the TRU Alpha Activity Concentration multiplied by the waste weight; ensuring the correct unit (nCi/g) is used.

[C] **IF** U-235 is reported as a reportable,
THEN use the Fissile Gram Equivalent (FGE) (Total) value for the Pu-239 FGE value.

[D] **IF** the U-235 is **NOT** reported as a reportable,
THEN use the FGE (exc. U-235) value for the Pu-239 FGE value.

[E] Any absorbent material used for packaging should be reported as part of the liner weight.

4.7.2 Proceed to Section 4.6 through step 4.6.16

4.7.3 **AFTER** the transportation data has been entered into WWIS/WDS and the Payload Assembly Transportation Certification Document (PATCD) has been printed,
THEN request the DA to transfer the data to the history file.

NOTE

Containers must be submitted to WWIS/WDS for transportation purposes and transferred to the history file before the containers can be certified.

4.7.4 Certify and submit the BCL Characterization Data per Section 4.1 through step 4.5.7 using CCP-TP-500, and CCP-AK-SRS-501, *Central Characterization Project Remote-Handled Transuranic Radiological Characterization Technical Report For Remote-Handled Transuranic Debris Waste From Battelle Columbus Laboratory's Decommissioning Project At the West Jefferson Facility.*

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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 Records

[A] Container Certification:

[A.1] RH WDS Master Template

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

[A.3] Radiological Survey Information, if applicable

[B] CNS 10-160B Container Certification:

[B.1] RH WDS Master Template and WWIS/WDS Transportation Only RH WDS Master Template (submitted as a set)

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

[B.3] Radiological Survey Information, if applicable

[C] Canister Certification:

[C.1] RH WDS Master Template

[C.2] Waste Canister Data Report

[C.3] Waste Canister Loading Sheet, if applicable

[C.4] Radiological Survey Information, if applicable

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Attachment 1 – Entering of Content Codes into WWIS/WDS

NOTE

The Content Code may be assigned by the WWIS/WDS based on the information submitted on the RH WDS Master Template.

1. INTRODUCTION

This appendix describes the steps used to enter assigned RH Content Codes into the RH 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 unless the Content Code is assigned by the WWIS/WDS.

2. ASSIGNING THE NUMERIC VALUE

Assign the Content Code based on the container waste stream assignment. The Content Code identified in AK may be confirmed by Real-Time Radiography (RTR) or VE. Enter the Content Code in RH WDS Master Template.

3. ASSIGNING A LETTER DESIGNATOR

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 U.S. Department of Energy (DOE) Carlsbad Field Office (CBFO) audited and approved certification program (newly generated waste exempted from RTR), use the Content Code assigned in the packaging documents.