

United States Government

Department of Energy

memorandum

Carlsbad Field Office
Carlsbad, New Mexico 88221

DATE: FEB 10 2011
REPLY TO
ATTN OF: CBFO:NTP:CF:GS:11-0140:UFC 5900.00
SUBJECT: Hanford-CCP Recertification Audit A-11-10
TO: Dennis Miehl, Acting Quality Assurance Manager



This memorandum is to inform you that the Carlsbad Field Office (CBFO), Office of the National TRU Program (NTP) has determined that the Central Characterization Project (CCP) TRU waste program deployed at the Hanford Site (hereinafter referred to as Hanford-CCP) is prepared for a recertification of its currently certified contact-handled (CH) program. In addition to the previously certified program the solids (S3000) waste Summary Category Group (SCG), the High Energy Real-Time Radiography unit (HERTR), and the Super High Efficiency Neutron Counter (SHENC) at Hanford-CCP will need to be audited. A list of the procedures and equipment that coincide with the processes to be audited is attached.

In order for the NTP to continue certification of Hanford-CCP, these areas must be evaluated and determined to be adequate, implemented, and effective. Upon completion of the evaluation(s), please provide the results that will allow our office to efficiently put together a certification letter. If you have any questions, please contact me at 234-7313.

A handwritten signature in black ink that reads "J.R. Stroble".

J.R. Stroble, Director
Office of the National TRU Program



Dennis Miehls

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cc: w/attachments

J. R. Stroble, CBFO	ED
C. Fesmire, CBFO	ED
N. Castaneda, CBFO	ED
M. Navarrete, CBFO	ED
G. Basabilvazo, CBFO	ED
S. McCauslin, CBFO	ED
J. Edwards, EPA	ED
T. Peake, EPA	ED
E. Feltcorn, EPA	ED
R. Joglekar, EPA	ED
R. Lee, EPA	ED
S. Zappe, NMED	ED
F. Sharif, WTS	ED
D. Haar, WTS	ED
D. Ploetz, WTS	ED
M. Percy, WTS	ED
M. Sensibaugh, WTS	ED
R. Reeves, WTS	ED
V. Waldram, WTS	ED
R. Chatfield, WTS	ED
J. Harvill, WTS	ED
D. Hofer, WTS	ED
C. Kirkes, WTS	ED
D. Kump, WTS	ED
D. Speed, WTS	ED
D. Standiford, WTS	ED
M. Strum, WTS	ED
P. Martinez, CTAC	ED
C. Riggs, CTAC	ED
P. Gilbert, LANL	ED
G. Lyshik, LANL	ED

CTAC Controlled Document Coordinator
RCRA Operating Record
CBFO M&RC

*ED denotes electronic distribution

Table 1 – Hanford-CCP CH Approved Waste Characterization Processes				
Characterization Process	CH S5000 Debris		CH S3000 Solids	
	Newly generated	Retrievably- Stored	Newly generated	Retrievably- Stored
Acceptable Knowledge	Approved	Approved	N/A	To be audited
Load Management	N/A	N/A	N/A	N/A
Data Validation & Verification (V&V)	Approved	Approved	N/A	To be audited
Visual Examination	Approved	Approved	N/A	N/A
Solids Sampling & Analysis	N/A	N/A	N/A	To be audited
Headspace Gas Sampling (Summa®)	Approved	Approved	N/A	N/A
Nondestructive assay (NDA)	Approved	Approved	N/A	To be audited
Real-time Radiography (RTR)	Approved	Approved	N/A	To be audited
Dose-to-Curie (DTC)	N/A	N/A	N/A	N/A
WIPP Waste Information System (WWIS)	Approved	Approved	N/A	To be audited
¹ Analysis is performed by the Idaho National Laboratory, which is approved under a separate certification.				

CENTRAL CHARACTERIZATION PROJECT LIST OF EQUIPMENT AND PROCESSES AT HANFORD					
WIPP WWIS #	Site Equipment # or Title	Description	Components	Software	NDA Operating Range
Nondestructive Assay					
18GEAA	Hanford GEA Unit A	Gamma Energy Assay– 55 gallon drums Procedure CCP-TP-071	<input type="checkbox"/> Coaxial detectors <input type="checkbox"/> LEGe detectors <input type="checkbox"/> Canberra Digital Signal Processor	<input type="checkbox"/> NDA 2000 <input type="checkbox"/> Genie 2000	≈0.01-325g Total Weapons Grade Pu
18GEAB	Hanford GEA Unit B	Gamma Energy Assay– 55 gallon drums Procedure CCP-TP-071	<input type="checkbox"/> Coaxial detectors <input type="checkbox"/> LEGe detectors <input type="checkbox"/> Canberra Digital Signal Processor	<input type="checkbox"/> NDA 2000 <input type="checkbox"/> Genie 2000	≈0.01-325g Total Weapons Grade Pu
18SHENC	Hanford SHENCA	Super High Efficiency Neutron Counter "A" platform (SHENCA) Procedure CCP-TP-137	<input type="checkbox"/> (1) HPGe Detector <input type="checkbox"/> (260) ³ He Tubes <input type="checkbox"/> Neutron Assay Chamber <input type="checkbox"/> Gamma Assay Area with rotator <input type="checkbox"/> Cf-252 Add-a-Source assembly	<input type="checkbox"/> SUPRHENC.EXE <input type="checkbox"/> PC-FRAM (fixed energy response function analysis with multiple efficiencies) <input type="checkbox"/> MAESTRO <input type="checkbox"/> Neutron Gamma Integration (NGI) <input type="checkbox"/> SuperHENC_QC.xls	The calibration of the SuperHENC is documented in BII-5169- CVR-001, "Calibration and Validation Report SuperHENC Mobile Assay System SHENCA." The TMU for the SuperHENC is documented in BII-5169- CVR-001, Section 4.14.
Nondestructive Examination					
18RTRA	Hanford RTR Unit A	Real-Time Radiography System – 55 gallon drums Procedure CCP-TP-053	<input type="checkbox"/> Shielded x-ray enclosure <input type="checkbox"/> Drum manipulation equipment <input type="checkbox"/> X-ray imaging system including x- ray tube, image intensifier, and video camera <input type="checkbox"/> Video/audio recording equipment	N/A	N/A
18RTRB	Hanford RTR Unit B	Real-Time Radiography System – 55 gallon drums Procedure CCP-TP-053	<input type="checkbox"/> Shielded x-ray enclosure <input type="checkbox"/> Drum manipulation equipment <input type="checkbox"/> X-ray imaging system including x- ray tube, image intensifier, and video camera <input type="checkbox"/> Video/audio recording equipment	N/A	N/A
18HERTR	Hanford HERTR	High-Energy Real-Time Radiography System – 55/85 gallon drums and SWBs	<input type="checkbox"/> Shielded x-ray enclosure <input type="checkbox"/> SWB or Drum manipulation	N/A	N/A

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CENTRAL CHARACTERIZATION PROJECT LIST OF EQUIPMENT AND PROCESSES AT HANFORD					
WIPP WWIS #	Site Equipment # or Title	Description	Components	Software	NDA Operating Range
		Procedure CCP-TP-053	equipment <input type="checkbox"/> X-ray imaging system including X-ray source, detector and video camera <input type="checkbox"/> Video/audio recording equipment		
Visual Examination					
18RLVE		CCP-TP-113 CCP Standard Contact-Handled Waste Visual Examination – SWB and 55-gallon drums	<input type="checkbox"/> None	N/A	N/A
Headspace GAs					
N/A	HSG	Summa Sampling process on selected waste containers from waste stream lots. Analysis is performed by the Idaho National Laboratory (INL), which is approved under a separate certification	As defined in CCP-TP-093	As defined in CCP-TP-093	N/A

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**CENTRAL CHARACTERIZATION PROJECT
LIST OF PROCEDURES AT HANFORD SITE**

#	Procedure No.	Procedure Title
1.	CCP-PO-001	CCP Transuranic Waste Certification Quality Assurance Project Plan
2.	CCP-PO-002	CCP Transuranic Waste Certification Plan
3.	CCP-PO-003	CCP Transuranic Authorized Methods for Payload Control (CCP CH-TRAMPAC)
4.	CCP-PO-005	CCP Conduct of Operations
5.	CCP-PO-008	CCP Quality Assurance Interface with the WTS Quality Assurance Program
6.	CCP-PO-011	CCP/CH2M-HILL Plateau Remediation Company Interface Document
7.	CCP-QP-001	CCP Graded Approach
8.	CCP-QP-002	CCP Training and Qualification Plan
9.	CCP-QP-004	CCP Corrective Action Management
10.	CCP-QP-005	CCP TRU Nonconforming Item Reporting and Control
11.	CCP-QP-006	CCP Corrective Action Reporting and Control
12.	CCP-QP-008	CCP Records Management
13.	CCP-QP-010	CCP Document Preparation, Approval, and Control
14.	CCP-QP-011	CCP Laboratory Logbooks
15.	CCP-QP-014	CCP Quality Assurance Trend Analysis and Reporting
16.	CCP-QP-015	CCP Procurement
17.	CCP-QP-016	CCP Control of Measuring and Testing Equipment
18.	CCP-QP-017	CCP Identification and Control of Items
19.	CCP-QP-018	CCP Management Assessment
20.	CCP-QP-019	CCP Quality Assurance Reporting to Management
21.	CCP-QP-021	CCP Surveillance Program
22.	CCP-QP-022	CCP Software Quality Assurance Plan
23.	CCP-QP-023	CCP Handling, Storage and Shipping
24.	CCP-QP-026	CCP Inspection Control
25.	CCP-QP-027	CCP Test Control
26.	CCP-QP-028	CCP Records Filing, Inventorying, Scheduling, and Dispositioning
27.	CCP-TP-001	CCP Project Level Data Validation and Verification
28.	CCP-TP-002	CCP Reconciliation of DQOs and Reporting Characterization Data
29.	CCP-TP-003	CCP Data Analysis for S3000, S4000, and S5000 Characterization
30.	CCP-TP-005	CCP Acceptable Knowledge Documentation
31.	CCP-TP-028	CCP Radiographic Test Drum and Container Construction
32.	CCP-TP-030	CCP CH TRU Waste Certification and WWIS/WDS Data Entry
33.	CCP-TP-053	CCP Standard Real-Time Radiography (RTR) Inspection Procedure
34.	CCP-TP-068	CCP Standardized Container Management
35.	CCP-TP-070	CCP Gamma Energy Assay (GEA) Calibration, Confirmation, and Verification Procedure
36.	CCP-TP-071	CCP Gamma Energy Assay (GEA) Operating Procedure
37.	CCP-TP-072	CCP Gamma Energy Assay (GEA) Data Review, Validation, and Reporting Procedure
38.	CCP-TP-082	CCP Preparing and Handling Waste Containers for Headspace Gas Sampling
39.	CCP-TP-093	CCP Sampling of TRU Waste Containers
40.	CCP-TP-106	CCP Headspace Gas Sampling Batch Data Report Preparation
41.	CCP-TP-113	CCP Standard Contact-Handled Waste Visual Examination
42.	CCP-TP-137	CCP Operation of the Hanford SuperHENC Assay System
43.	CCP-TP-144	CCP Hanford SuperHENC Calibration Procedure
44.	CCP-TP-148	CCP SuperHENC Data Reviewing, Validating, and Reporting Procedure
45.	CCP-TP-162	CCP Random Selection of Containers for Solids and Headspace Gas Sampling and Analysis
46.	CCP-TP-180	CCP Analytical Sample Management
47.	CCP-TP-198	CCP HE-RTR Operating Procedure