

United States Government

Department of Energy

memorandum

 Carlsbad Field Office
 Carlsbad, New Mexico 288224


DATE: August 25, 2010

REPLY TO
ATTN OF: CBFO:NTP:JRS:GS:10-1499:UFC 5900.00

SUBJECT: Expansion to Certification of the Idaho National Laboratory (INL) Central Characterization Project (CCP) and INL Analytical Laboratory to Include the Tier 1 EPA Approval of ID-INTEC-RH Waste Stream; and ID-HFEF-S5400-RH, Lot 1B; and the OSPREY System

TO: Dennis M. Miotla, DOE-ID
M. Farok Sharif, WTS

The Carlsbad Field Office (CBFO) is expanding the certification of the Central Characterization Project (CCP) TRU waste program deployed at the Idaho National Laboratory (INL) (hereinafter referred to INL-CCP) to reflect the CBFO Tier 1 baseline change requests and approvals to include the following:

EPA approval of ID-INTEC-RH S5000 debris waste stream consisting of two 30-gallon drums overpacked in 55-gallon drums and approval to evaluate processes and procedures implemented to sample RH debris waste and analyze them to measure the radionuclide content as separate visits to ANL on February 17, 2010 and the INTEC Laboratory at INL on January 14, 2010. The U.S. EPA submitted their approval on the tier request on August 17, 2010, EPA DOCKET NO: A-98-49; II-A4-130. Surveillance S-10-20 was conducted in Carlsbad, New Mexico to perform a desktop review of documentation relating to the sample and analysis of the RH TRU S5000 debris waste from INTEC INL on February 23-24, 2010. The Surveillance Report was issued on March 16, 2010.

EPA approval for the RH TRU Debris (S5000) Waste Stream ID-HFEF-S5400-RH, addition of Lot1B containers of S5000 debris waste and approval for the use of the OSPREY™ gamma measurement system for reporting the dose-rate fraction for ⁶⁰Co and ¹³⁷Cs. The U.S. EPA submitted their approval on the two tier requests on August 23, 2010, EPA DOCKET NO; A-98-49, II-A4-131. Surveillance S-10-34 was conducted of the INL/CCP Dose-to-Curie (DTC) data measured using an OSPREY™ Detector on July 20-21, 2010. The Table 1 of this memo and all attachments have been revised to reflect these approvals.

The CBFO completed the annual recertification audit of the Central Characterization Project (CCP) TRU waste program deployed at INL-CCP. Audit A-09-13 of the INL analytical laboratory and Audit A-09-14 was conducted on May 5-7, 2009, to evaluate the adequacy, implementation, and effectiveness of the INL-CCP and continued compliance of INL-CCP TRU waste characterization, and certification activities for contact-handled (CH) S3000 homogeneous solids, S4000 soils/gravel, S5000 debris waste and remote-handled (RH) S5000 debris waste.

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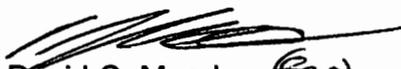
The CCP Quality Assurance Program (QAP) was audited during Audit A-09-10 on February 24-26, 2009 in Carlsbad, New Mexico. The CCP QA program was found to adequately address the upper-tier requirements of the Quality Assurance Program Document (QAPD) and is being effectively implemented. CCP CH and RH transportation activities were evaluated in Carlsbad, New Mexico on September 29 through October 1, 2009 during Audit A-09-27. Technical and quality assurance aspects of the transportation program were found to be effectively implemented.

The audit team determined that the INL-CCP TRU programs were in compliance with the "Waste Analysis Plan" (WAP) of the Waste Isolation Pilot Plant (WIPP) Hazardous Waste Facility Permit (HWFP), the QAPD, the Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant (WIPP WAC), and the TRAMPAC, RH TRU 72B Safety Analysis Report (SAR), TRUPACT-II Certification of Compliance, Remote-Handled Transuranic Waste Characterization Program Implementation Plan (WCPIP). The audit team determined that the procedures/documents were effectively implemented.

Based on the results of Audits A-09-13, A-09-14, A-09-27, A-09-10, S-10-20, S-10-34 and conditions and limitations provided by the New Mexico Environment Department and the EPA, the CBFO is authorizing INL-CCP to include the ID-INTEC-RH S5000 debris waste stream consisting of two containers, the addition of RH TRU Waste Stream ID-HFEF-S5400-RH, Lot 1B cans, and the use of the OSPREY™ gamma measurement system reporting the dose-rate fraction for ^{60}Co and ^{137}Cs , and grants continued authority at the INL-CCP for characterization, certification, and transportation activities for CH and RH solids (S3000), soils/gravel (S4000), and debris (S5000) waste as identified in Table 1.

TRU waste characterization, certification, or transportation using significantly revised or new processes, procedures, or systems must be evaluated by the CBFO prior to their implementation. Included in this memo are the following attachments:

- *Attachment 1* describes the INL-CCP certification program status,
- *Attachment 2* contains the equipment certified at the site,
- *Attachment 3* contains the certified CCP procedures, and
- *Attachment 4* specific INL-CCP waste characterization process elements that must be reported. These process elements are identified as Tier 1 changes and Tier 2 changes. The INL-CCP shall not ship for disposal at WIPP any wastes affected by a Tier 1 process element change without prior CBFO approval, and INL-CCP shall report Tier 2 changes to CBFO on a quarterly basis. INL-CCP procedures shall be revised as necessary to incorporate this reporting and approval process.


David C. Moody (gr)
Manager

Attachment(s)

cc: w/attachments

O. Vincent, CBFO	* ED
D. Gadbury, CBFO	ED
C. Fesmire, CBFO	ED
N. Castaneda, CBFO	ED
J. Stroble, CBFO	ED
G. Basabilvazo, CBFO	ED
S. McCauslin, CBFO	ED
A. Holland, CBFO	ED
D. Miehl, CBFO	ED
M. Navarrete, CBFO	ED
J. Wells, DOE-ID	ED
K. Brewer, ICP	ED
J. Edwards, EPA	ED
T. Peake, EPA	ED
E. Feltcorn, EPA	ED
R. Joglekar, EPA	ED
R. Lee, EPA	ED
A. Perrin, EPA	ED
J. Bearzi, NMED	ED
D. Haar, WTS	ED
D. Ploetz, WTS	ED
J. Harvill, WTS	ED
C. Kirkes, WTS	ED
D. Kump, WTS	ED
I. Quintana, WTS	ED
D. Speed, WTS	ED
R. Chatfield, WTS	ED
C. Luoma, WTS	ED
M. Strum, WTS	ED
A. Johnson, WTS	ED
B. Nieman, WTS	ED
D. Standiford, WTS	ED
V. Waldram, WTS	ED
P. Gilbert, LANL	ED
G. Lyshik, LANL	ED
W. Ledford, CTAC	ED
S. Percy, Triumph	ED

CTAC Document Coordinator
WIPP Operating Record, MS: 452-09
CBFO M&RC

*ED denotes electronic distribution

Table 1 – Approved Contact-Handled Waste Characterization Processes for INL-CCP

Characterization Process	CH S3000 Homogeneous Solids		CH S4000 Soils/gravel		CH S5000 Debris	
	Newly generated	Retrievably-stored	Newly generated	Retrievably-stored	Newly generated	Retrievably-stored
Acceptable Knowledge	APPROVED (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	APPROVED	APPROVED (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	N/A	APPROVED (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	APPROVED
Load Management	APPROVED ¹ (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	APPROVED ¹	APPROVED ¹ (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	N/A	APPROVED ¹ (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	APPROVED ¹
Data Validation & Verification (V&V)	APPROVED	APPROVED	APPROVED	N/A	APPROVED	APPROVED
Visual Examination ³	APPROVED (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	N/A	APPROVED (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	N/A	APPROVED (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	N/A
Solids sampling	APPROVED (ARP)	APPROVED ²	APPROVED (ARP)	N/A	N/A	N/A
Headspace Gas Sampling (SUMMA)	N/A	N/A	N/A	N/A	APPROVED	APPROVED
Nondestructive assay (NDA)	APPROVED (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	APPROVED	APPROVED (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	N/A	APPROVED (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	APPROVED
Real-time Radiography (RTR)	N/A	APPROVED	N/A	N/A	N/A	APPROVED
Dose-to-Curie (DTC)	N/A	N/A	N/A	N/A	N/A	N/A
WIPP Waste Information System (WWIS)	APPROVED (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	APPROVED	APPROVED (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	N/A	APPROVED (Pit 4, ARP-I & section of ARP-II) (Pit 6, ARP-II)	APPROVED
INL LABORATORIES UNDER CCP Program						
Solids Analysis	APPROVED	APPROVED	APPROVED	APPROVED	N/A	N/A
Headspace Gas Analysis (canister)	N/A	N/A	N/A	N/A	APPROVED	APPROVED

¹Debris and solid waste from AMWTP characterized by INL-CCP may not be load managed with waste characterized by the AMWTP contractor.
²Solids sampling is performed by AMWTP.
³VE of Records is not approved by NMED based on August 4, 2009 letter based on A-09-08.

Table 1 – Approved Remote-Handled Waste Characterization Processes for INL-CCP

Characterization Process	RH S3000 Homogeneous Solids		RH S4000 Soils/gravel		RH S5000 Debris	
	Newly Generated	Retrievably-Stored	Newly Generated	Retrievably-Stored	Newly Generated	Retrievably-Stored
Acceptable Knowledge	N/A	N/A	N/A	N/A	N/A	APPROVED
Load Management	N/A	N/A	N/A	N/A	N/A	N/A
Data Validation & Verification (V&V)	N/A	N/A	N/A	N/A	N/A	APPROVED
Visual Examination ³	APPROVED ⁴	APPROVED ⁴	APPROVED ⁴	APPROVED ⁴	APPROVED ⁴	APPROVED ^{2,4}
Solids sampling	N/A	N/A	N/A	N/A	N/A	N/A
Headspace Gas Sampling (SUMMA)	N/A	N/A	N/A	N/A	N/A	APPROVED
Nondestructive assay (NDA)	N/A	N/A	N/A	N/A	N/A	N/A
Real-time Radiography (RTR)	N/A	N/A	N/A	N/A	N/A	APPROVED
Dose-to-Curie (DTC) ⁵	N/A	N/A	N/A	N/A	N/A	APPROVED ⁶
WIPP Waste Information System (WWIS)	N/A	N/A	N/A	N/A	N/A	APPROVED
INL LABORATORIES UNDER CCP Program						
Solids Analysis	N/A	N/A	N/A	N/A	N/A	N/A
Headspace Gas Analysis (canister)	N/A	N/A	N/A	N/A	APPROVED	APPROVED

¹Includes 56 waste containers from K Cell debris waste.

²The VE of audio/video media process used for a total of 70 retrievably-stored RH debris waste drums included in batch data reports (BDRs) RHINLVE060001, RHINLVE060002, RHINLVE060003, and RHINLVE060004.

³VE of Records is not approved by NMED based on August 4, 2009 letter based on A-09-08.

⁴Tier 1 approval of the visual examination technique (VET) to characterize RH TRU S3000, S4000, and S5000 waste categories at INL.

⁵Tier 1 approval to include the addition of 12 containers to RH Waste Stream ID-ANLE-S5000; a new RH Waste Stream ID-HFEF-S5400-RH, Lot 1A with 28 casks; and 8 containers of retrievably stored remote-handled debris waste from Waste Stream ID-MFC-S5400-RH.

⁶Tier 1 approval to include a new RH Waste Stream ID-INTEC-RH consisting of 2 30-gallon drums overpacked into 55-gallon drums and collection and analysis of RH TRU debris samples by INTEC laboratory for the purpose of supporting radionuclide-specific scaling factors.

⁷Tier 1 approval to include RH Waste Stream ID-HFEF-S5400-RH, Lot 1B cans.

CENTRAL CHARACTERIZATION PROJECT AT IDAHO NATIONAL LABORATORY CERTIFICATION PROGRAM STATUS

The CBFO Director of the Office of the National TRU Program and the CBFO Quality Assurance Manager have evaluated the documentation supporting the compliance of the Central Characterization Project (CCP) TRU waste program deployed at the Idaho National Laboratory (INL). Attachments 2 and 3 provide complete lists of certified processes, procedures, documents, and systems deployed at the INL-CCP. Attachment 4 is the CH and RH Tiering of TRU Waste Characterization Processes implemented by the CCP at INL.

PROGRAM STATUS

- All program elements remain complete.
- The following site documents are current and demonstrate how the CCP complies with the CBFO requirements.
 - **QAPJP – CCP-PO-001, Revision 18 - CCP Transuranic Waste Characterization Quality Assurance Project Plan** (Approved June 29, 2010 – CBFO:NTP:CF:GS:10-1422:UFC 5900.00).
 - **WCP - CCP-PO-002, Revision 24 - CCP Transuranic Waste Certification Plan** (Approved June 29, 2010 – CBFO:NTP:NC:GS:10-1428:UFC 5900.00).
 - **QAP - Section 4.0 of CCP-PO-002.**
 - **CCP CH-TRAMPAC – CCP-PO-003, Revision 11, CCP Transuranic Authorized Method for Payload Control** (Approved June 3, 2009 - CBFO:NTP:CF:GS:09-1335:UFC 5900.00)
 - **RH-TRAMPAC – CCP-PO-505, Revision 0, CCP Remote-Handled Transuranic Waste Authorized Methods for Payload Control** (CBFO:NTP:CF:GS:06-1355:UFC 5900.00 dated September 20, 2006)
- Certified Systems - see Attachment 2 for the complete list of certified systems used by the CCP at the INL.
- Standard operating procedures - see Attachment 3 for the complete list of certified CCP procedures used at the INL.
- Tiering of TRU Waste Characterization Processes implemented by CCP at INL (based on EPA Baseline Inspections) - see Attachment 4.
- CCP participated in the following performance demonstration programs (PDPs):
 - **NDA PDP – Cycle 17A (INL CCP) Memo** CBFO:NTP:MRB:GS:10-1457:UFC 5822.00 dated July 26, 2010 approving for analysis of TRU waste drums using

the SGRS (IN04/ING3), the WAGS (IN03/ING2), using the SuperHENC (IN05/INN2), except for sludge-type or other uncalibrated-for matrix type drums; using the HENC (IN01/INN1).

- **NDA PDP** – Cycle B9A (INL CCP) Memo CBFO:NTP:MRB:GS:09-2057:UFC:5900.00 dated December 14, 2009 approving using the SuperHENC for SWBs and 100-gallon drums (IN05/INN2).
- **HSG PDP** – Cycle 23A (INL CCP) Memo CBFO:NTP:MRB:GS:09-0953:UFC 5822.00 dated May 13, 2009 approving for analysis of VOCs in headspace gas samples using the GC/MS and the GC for methanol (GCMS-F, GCMS-H, GC-1, GC-2 and GC-7).
- **RCRA PDP** – Cycle 17A (INL CCP) – CBFO:NTP:MRB:GS:10-0773:UFC 5822.00 dated March 10, 2010 approving:
 - **Approved for the analysis of metals** in solidified waste samples by the methods CCP-TP-183 and CCP-TP-182 (for all metals except mercury) and CCP-TP-181 (for mercury).
 - **Approved for the analysis of aqueous extractable VOCs** (including acetone, ethyl ether, methyl ethyl ketone, and pyridine) in solidified waste samples by the method identified as CCP-TP-186.
 - **Approved for the analysis of purgeable VOCs** in solidified waste samples by the method identified as CCP-TP-184.
 - **Approved for the analysis of SVOCs** (including 1,4-dichlorobenzene, and 1,2-dichlorobenzene) in solidified waste samples by the methods identified as CCP-TP-187 and CCP-TP-185.
- CBFO conducted a Quality Assurance Program Audit A-09-10 on February 24-26, 2009.
 - Audit Report was issued on March 13, 2009.
- CBFO conducted a Surveillance S-09-33 at INTEC to evaluate the actual VET process on August 11, 2009.
 - Surveillance Report was issued on September 9, 2009.
- CBFO conducted a recertification Audit A-09-13 of the INL Analytical Laboratories on May 5-7, 2009.
 - No CARs were issued.
 - Interim Audit Report was issued on June 1, 2009.
 - Final Audit Report was issued to NMED on July 27, 2009.
 - NMED issued approval on A-09-13 on September 11, 2009.

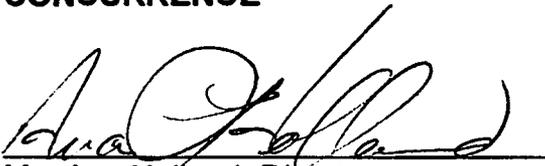
- CBFO conducted a recertification Audit A-09-14 of the INL CCP on May 5-7, 2009
 - No CARs were issued.
 - Interim Audit Report was issued on June 3, 2009.
 - Final Audit Report was issued to NMED on July 28, 2009.
 - NMED issued approval on A-09-14 on September 11, 2009.
- CBFO conducted CH and RH Transportation Audit A-09-27 for on September 29-October 1, 2009.
 - Audit Report was issued on October 14, 2009.
- CBFO conducted a certification Audit A-10-03 of the INL-CCP VET process on October 6-7, 2009 to verify compliance of waste characterization and certification activities for S5000 RH debris waste.
 - Interim and Final Audit Report was issued on November 9, 2009.
- CBFO requested a Tier 1 change for the use of VET to characterize RH TRU S3000, S4000, and S5000 waste categories at INL-CCP on September 17, 2009.
 - EPA approval issued on September 22, 2009.
- CBFO requested a Tier 1 change to extend calibration range to the INL CCP HENC on July 1, 2009.
 - EPA approval issued on September 22, 2009.
- CBFO conducted a Surveillance S-10-20 at INTEC to evaluate the sampling and analysis processes at INL INTEC facility on February 23-24, 2010.
 - Surveillance Report issued on March 16, 2010.
- CBFO requested a Tier 1 change to include the ID-MFC-S5400-RH Waste Stream consisting of (8) 55-gallon drums on January 19, 2010.
 - EPA approval issued on June 8, 2010.
- CBFO requested a Tier 1 change for the addition of twelve containers to the approved RH TRU Waste Stream ID-ANLE-S5000, and the addition of a new RH TRU Waste Stream ID-HFEF-S5400, Lot 1A with 28 casks and the addition of two 30-gallon drums overpacked in 55-gallon drums to the approved RH TRU Waste Stream ID-INTEC-RH on October 21, 2009.
 - EPA issued approval on ID-ANLE-S5000 and ID-HFEF-S5400, Lot 1A on February 1, 2010.
 - EPA issued approval on ID-INTEC-RH on August 17, 2010.
- CBFO requested a Tier 1 change to evaluate processes and procedures implemented to sample RH debris waste and analyze them to measure the radionuclide content as separate visits to ANL on February 17, 2010 and the INTEC Laboratory at INL on January 14, 2010.
 - EPA issued approval on August 17, 2010.

- CBFO requested a Tier 1 change for RH TRU Waste Stream ID-HFEF-S5400-RH, Lot 1B cans of S5000 debris waste on February 8, 2010 and also requested an inspection for the use of the OSPREY™ gamma measurement system for reporting the dose-rate fraction for ^{60}Co and ^{137}Cs on June 23, 2010.
 - The U.S. EPA submitted their approval on the two tier requests on August 23, 2010.
- CBFO conducted a follow-up surveillance S-10-34 of the INL/CCP Dose-to-Curie (DTC) data measured using an Osprey Detector on July 20-21, 2010.
 - Surveillance report was issued on August 10, 2010.
- EPA concurred with this CBFO certification expansion on August 25, 2010.

RECOMMENDATION

The recommendation to the CBFO Manager is for CCP to include the addition of the approved ID-INTEC-RH debris waste stream consisting of two 30-gallon drums overpacked in 55-gallon drums; to be able to use ANL and INTEC laboratories to evaluate processes implemented to sample and analyze RH debris waste; the addition RH TRU Debris (S5000) ID-HFEF-S5400-RH, Lot 1B cans and the use of the OSPREY gamma measurement system into their certified program and continue CCP's authority for characterization, certification, and transportation of contact-handled (CH) and Remote-Handled (RH) homogeneous solids (S3000), soils/gravel (S4000), debris (S5000) waste at the INL-CCP as identified in the Table 1 of the memorandum. Attachments 2 and 3 list the systems and procedures that constitute the bounds of this authority. Attachment 4 is the CH and RH Tiering of TRU Waste Characterization Processes implemented by the CCP at INL.

CONCURRENCE



Ms. Ava Holland, Director
Quality Assurance

8/24/10
Date



Mr. Donald C. Gadbury, Director
CBFO Office of the National TRU Program

8-24-10
Date

LIST OF CERTIFIED EQUIPMENT AND PROCESSES AT INL/CCP					
WIPP WWIS #	Site Equipment # or Title	Description	Components	Software	NDA Calibrated and TMU
Non-Destructive Assay (NDA)					
14SHC1	SuperHENC	Super High Efficiency Neutron Counter (SuperHENC) Operating Procedure CCP-TP-146 PDP ID – IN05/INN2	<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	<p>The calibration of the SuperHENC is documented in BII-5221-SRF-001, "SUPERHENC RFETS Calibration Documentation Package" and BII-5221-CVR-001, "Calibration and Validation Report SuperHENC Mobile Assay System."</p> <p>The TMU for the SuperHENC is documented in BII-5221-CVR-001, Section 4.1.1.</p>
14HENC1	CCP-HENC-01	CCP High Efficiency Neutron Counter combined neutron and gamma system Operating Procedure CCP-TP-107 PDP ID-IN01/INN1	<input type="checkbox"/> (113) ³ He neutron detectors <input type="checkbox"/> (1) Broad range HPGe detector <input type="checkbox"/> Shielded assay chamber <input type="checkbox"/> Mechanical conveyor and turntable assembly for drum handling <input type="checkbox"/> Cf-252 add-a-source assembly	<input type="checkbox"/> NDA 2000, Version 4.0 (MGA.exe and MGA-U.exe are tracked as part of NDA 2000) <input type="checkbox"/> Genie 2000, Version 3.0	<p>The calibration of the HENC is documented in CCP-INL-HENC-001, "CCP HENC Supplemental Calibration, Confirmation, and Verification Report," CCP-INL-HENC-001a, "CCP HENC Gamma Spectrometer Supplemental Calibration, Confirmation, and Verification Report, and CCP-INL-HENC-001b, CCP HENC Gamma Spectrometer supplemental calibration, Confirmation, and Verification Report."</p> <p>The TMU for the HENC is documented in CCP-INL-HENC-002, "Total Measurement Uncertainty for the CCP High Efficiency Neutron Counter."</p>
14WAGS1	WAGS	Waste Assay Gamma Spectrometer (WAGS) Quantitative gamma acquisition system with transmission matrix corrections, multi curve density and gamma isotopic capabilities. Operating Procedure CCP-TP-019 PDP ID – IN03/ING2	<input type="checkbox"/> 6 BeGe detectors <input type="checkbox"/> Shielded Assay Chamber <input type="checkbox"/> 3 Ba-133 transmission sources <input type="checkbox"/> 6 Digital Spectrum Analyzers 1000 <input type="checkbox"/> Pulser	<input type="checkbox"/> NDA 2000, Version 4.0 (MGA.exe and MGA-U.exe are tracked as part of NDA 2000) <input type="checkbox"/> Genie 2000, Version 3.0	<p>Calibration for the WAGS is discussed in CCP-INL-WAGS-001. For the WAGS the calibrated range and operational ranges are synonymous.</p> <p>The TMU for the WAGS is documented in CCP-INL-WAGS-002, "Total Measurement Uncertainty for the WAGS System."</p>
14SGRS1	SGRS	Stored Waste Examination Pilot Plant (SWEPP) Gamma Ray Spectrometer (SGRS) Quantitative gamma acquisition system with multi-curve density and gamma isotopic capabilities.	<input type="checkbox"/> 4 BeGe detectors <input type="checkbox"/> Shielded Assay Chamber <input type="checkbox"/> 1 Pulser <input type="checkbox"/> 4 Digital Spectrum Analyzers	<input type="checkbox"/> NDA 2000, Version 4.0 (MGA.exe and MGA-U.exe are tracked as part of NDA 2000)	<p>The calibration for the SGRS is discussed in CCP-INL-SGRS-001. For the SGRS the calibrated range and operational ranges are synonymous.</p> <p>The TMU for the SGRS is documented in</p>

LIST OF CERTIFIED EQUIPMENT AND PROCESSES AT INL/CCP					
WIPP WWIS #	Site Equipment # or Title	Description	Components	Software	NDA Calibrated and TMU
		Operating Procedure CCP-TP-115 PDP ID – IN04/ING3		<input type="checkbox"/> Genie 2000, Version 3.0	CCP-INL-SGRS-002, "Total Measurement Uncertainty for the SGRS System."
Dose-to-Curie (DTC)					
14DTC1	Dose-to-Curie	Radiological characterization process using dose-to-curie (DTC) and modeling-derived scaling factors for assigning radionuclide values to RH waste streams for which the scaling factors are applicable, as described in the waste stream specific radiological reports. Dose-rate fractional contribution of Cs-137 and Co-60 using OSPREY™ La ₃ Br(Ce) gamma detector Procedure CCP-TP-504	As identified in CCP-TP-504	As identified in CCP-TP-504	N/A
Non-Destructive Examination (NDE)					
14RR2	MCS RTR-5	Real-time Radiography Mobile Characterization System's RTR-5 [built by VJ Technologies] – 55 gallon drums Procedure CCP-TP-053	<input type="checkbox"/> Shielded x-ray enclosure with a hydraulic drum loading door and manually opened personnel door <input type="checkbox"/> Conveyer cart including 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 <input type="checkbox"/> Mobile platform	N/A	N/A
14RRH1	RTR-RTR-0659	Real-time Radiography Characterization System [built by VJ Technologies] Procedure CCP-TP-508	<input type="checkbox"/> X-ray imaging system including x-ray tube, image intensifier, and video camera <input type="checkbox"/> Video/audio recording equipment <input type="checkbox"/> Fixed platform	N/A	N/A

Gas Generation Testing (GGT)					
14GG1	MGSS Unit/Cart 1 (GC-14B)	Mobile Gas Generation Testing 55 – gallon drums Procedure CCP-TP-083, CCP-TP-089, CCP-TP-092, and CCP-TP-094	<input type="checkbox"/> Cart including Gas Chromatograph	<input type="checkbox"/> Shimadzu Class-VP 7.2.1 Client Software <input type="checkbox"/> GGTP Data Calculation	N/A
14GG2	MGSS Unit/Cart 2 (GC-17A)	Mobile Gas Generation Testing 55 – gallon drums Procedure CCP-TP-083, CCP-TP-089, CCP-TP-092, and CCP-TP-094	<input type="checkbox"/> Cart including Gas Chromatograph	<input type="checkbox"/> Shimadzu Class-VP 7.2.1 Client Software <input type="checkbox"/> GGTP Data Calculation	N/A
Visual Examination (VE)					
14RHVE1	Audio/video review/VE Technique	Visual Examination Technique (VET) to characterize RH TRU SCGs S3000, S4000, and S5000 waste. Procedure CCP-TP-500	N/A	N/A	N/A
14VE1	ARP Packaging Stations	Visual Examination of waste processed through the Accelerated Retrieval Project (ARP). Procedure CCP-TP-006	N/A	N/A	N/A
Flammable Gas Analysis (FGA)					
14HG2	N/A	DOE/WIPP-06-3345	<input type="checkbox"/> Agilent GC/MSD-GC-TCD – Unit 1	<input type="checkbox"/> CTI- modified Agilent Technologies ChemStation Software and reprocessing software	14HG2
14HG5	N/A	DOE/WIPP-06-3345	<input type="checkbox"/> Agilent GC/MSD-GC-TCD – Unit 5	<input type="checkbox"/> CTI- modified Agilent Technologies ChemStation Software and reprocessing software	14HG5
14HG6	N/A	DOE/WIPP-06-3345	<input type="checkbox"/> Agilent GC/MSD-GC-TCD – Unit 6	<input type="checkbox"/> CTI- modified Agilent Technologies ChemStation Software and reprocessing software	14HG6
8HSG2	HSG	SUMMA Sampling process on selected waste containers from waste stream lots.	<input type="checkbox"/> As identified in CCP-TP-093	<input type="checkbox"/> As identified in CCP-TP-093	N/A

LIST OF CERTIFIED EQUIPMENT AND PROCESSES AT THE INL/ CCP ANALYTICAL LABORATORIES					
WIPP WWIS #	Site Equipment # or Title	Description	Components	Software	NDA Calibrated and TMU
Headspace Gas (HGS)					
12HE2	GC/MS-F	Environmental Chemistry Lab (ECL) - Headspace gas volatile organic compounds specified in procedure CCP-TP-175 PDP ID - GC/MS-F	<input type="checkbox"/> GC/MS (Method described in procedure CCP-TP-175)	<input type="checkbox"/> HP Enviroquant Chemstation	N/A
12HE4	GC/MS-H	Environmental Chemistry Lab (ECL) - Headspace gas volatile organic compounds specified in procedure CCP-TP-175 PDP ID - GC/MS-H	<input type="checkbox"/> GC/MS (Method described in procedure CCP-TP-175)	<input type="checkbox"/> HP Enviroquant Chemstation	N/A
12HE5	GC-1	Environmental Chemistry Lab (ECL) - Headspace gas volatile organic compounds specified in procedure CCP-TP-173 PDP ID - GC-1	<input type="checkbox"/> GC-FID (Method described in CCP-TP-173)	<input type="checkbox"/> HP Chemstation	N/A
12HE6	GC-2	Environmental Chemistry Lab (ECL) - Headspace gas volatile organic compounds specified in procedure CCP-TP-173 PDP ID - GC-2	<input type="checkbox"/> GC-FID (Method described in CCP-TP-173)	<input type="checkbox"/> HP Chemstation	N/A
12HE9	GC-7	Environmental Chemistry Lab (ECL) - Headspace gas volatile organic compounds specified in procedure CCP-TP-173 PDP ID - GC-7	<input type="checkbox"/> GC-FID (Method described in CCP-TP-173)	<input type="checkbox"/> Agilent Chemstation	N/A
Solids					
12HA8	VOA-4	Analytical Laboratory Department (ALD) – Total purgable volatile organic compound analysis specified in procedure CCP-TP-184	<input type="checkbox"/> GC/MS (Method described in CCP-TP-184)	<input type="checkbox"/> Agilent Chemstation	N/A
12HA3	GC-1	Analytical Laboratory Department (ALD) – Total non-halogenated volatile organic compounds specified in procedure CCP-TP-186	<input type="checkbox"/> GC-FID (Method described in CCP-TP-186)	<input type="checkbox"/> Agilent Chemstation	N/A
12HA14	GC-6	Analytical Laboratory Department (ALD) –	<input type="checkbox"/> GC-FID (Method described	<input type="checkbox"/> Agilent Chemstation	N/A

LIST OF CERTIFIED EQUIPMENT AND PROCESSES AT THE INL/ CCP ANALYTICAL LABORATORIES					
WIPP WWIS #	Site Equipment # or Title	Description	Components	Software	NDA Calibrated and TMU
		Total non-halogenated volatile organic compounds specified in procedure CCP-TP-186	in CCP-TP-186)		
12HA10	SV-6	Analytical Laboratory Department (ALD) – Total semi-volatile organic compounds specified in procedure CCP-TP-185	<input type="checkbox"/> GC/MS (Method described in CCP-TP-185)	<input type="checkbox"/> Agilent ChemStation	N/A
12HA12	SV-8	Analytical Laboratory Department (ALD) – Total semi-volatile organic compounds specified in procedure CCP-TP-185	<input type="checkbox"/> GC/MS (Method described in CCP-TP-185)	<input type="checkbox"/> Agilent ChemStation	N/A
12HA13	VOA-5	Analytical Laboratory Department (ALD) – Total purgable volatile organic compound analysis specified in procedure CCP-TP-184	<input type="checkbox"/> GC/MS (Method described in CCP-TP-184)	<input type="checkbox"/> Agilent Chemstation	N/A
12HM3	ICP-4	Analytical Laboratory Department (ALD) – Total metals analysis specified in procedure CCP-TP-182	<input type="checkbox"/> Total metals analysis (ICP-AES) specified in procedure CCP-TP-182	<input type="checkbox"/> J-YESS	N/A
12HM11	ICP-7	Analytical Laboratory Department (ALD) – Total metals analysis specified in procedure CCP-TP-182	<input type="checkbox"/> Total metals analysis (ICP-AES) specified in procedure CCP-TP-182	<input type="checkbox"/> J-YESS	N/A
12HM8	CVHG-2	Analytical Laboratory Department (ALD) – Total metals (Hg) analysis specified in procedure CCP-TP-181	<input type="checkbox"/> Total metals (Hg) analysis (CVAA) specified in procedure CCP-TP-181	<input type="checkbox"/> AA WinLab Analyst	N/A
12HM12	CVHG-3	Analytical Laboratory Department (ALD) – Total metals (Hg) analysis specified in procedure CCP-TP-181	<input type="checkbox"/> Total metals (Hg) analysis (CVAA) specified in procedure CCP-TP-181	<input type="checkbox"/> AA WinLab Analyst	N/A
12HM9	MW-3	Analytical Laboratory Department (ALD) - Total metals digestion specified in procedure CCP-TP-183	<input type="checkbox"/> Microwave digester - Method described in procedure CCP-TP-183	N/A	N/A
12HM10	MW-4	Analytical Laboratory Department (ALD) – Total metals digestion specified in procedure CCP-TP-183	<input type="checkbox"/> Microwave digester - Method described in procedure CCP-TP-183	N/A	N/A

List of Deactivated Equipment			
WIPP #	Site Equipment #	Site Description	Date Deactivated
12HM2	ID 356094	INTEC Lab – Total metals digestion specified in procedure ACMM-8909 (Replaced by 12HM9)	May 2005
12HM1	ID322554	INTEC Lab – Total metals digestion specified in procedure ACMM-8909 (Replaced by 12HM10)	November 2005
14RR1	MCS RTR-2	Real-Time Radiography Mobile Characterization System RTR-2 [built by VJ Technologies] – 55-gallon drums – specified in procedure CCP-TP-102	December 2005
12HA5	SV-2	INTEC Lab – Total semi-volatile organic compounds specified in procedure ACMM-9270	March 2006
12HA11	SV-7	INTEC Lab – Total semi-volatile organic compounds specified in procedure ACMM-9270	June 2006
12HA6	SV-3	INTEC Lab – Total semi-volatile organic compounds specified in procedure ACMM-9270	June 2006
12SS1	W0096-0563-EC-00	Materials and Fuel Complex – Core sampling as specified in procedure HFEF-OI-6910	June 2006
12SS2	W0096-0563-EC-00	Materials and Fuel Complex – Small Container Sampling as specified in procedure HFEF-OI-6923	June 2006
12HE7	GC-5	Environmental Chemistry Lab - Headspace gas hydrogen and methane analysis specified in procedure ACMM-9925	May 2007
12HE8	GC-6	Environmental Chemistry Lab - Headspace gas hydrogen and methane analysis specified in procedure ACMM-9925	May 2007
14TGS1	CCP-TGS-1	CCP Tomographic Gamma Scanner, Tomographic gamma imaging system mounted in transportation container, specified in procedure CCP-TP-097.	March 2008
12HE1	GC/MS-E	ECL Headspace gas volatile organic compounds specified in procedure CCP-TP-175	April 2008
12HE3	GC/MS-G	ECL Headspace gas volatile organic compounds specified in procedure CCP-TP-175	April 2008
12HA9	GC-5	Analytical Laboratory Department (ALD) – Total non-halogenated volatile organic compounds specified in procedure CCP-TP-186, GC-FID (Method described in CCP-TP-186)	September 2009
12HM4	ICP-5	Analytical Laboratory Department (ALD) – Total metals analysis specified in procedure CCP-TP-182, Total metals analysis (ICP-AES) specified in procedure CCP-TP-182	September 2009
12HM7	CVHG-1	Analytical Laboratory Department (ALD) – Total metals (Hg) analysis specified in procedure CCP-TP-181	September 2009
12HA1	VOA-1	Analytical Laboratory Department (ALD) – Total purgable volatile organic compound analysis specified in procedure CCP-TP-184, GC/MS (Method described in CCP-TP-184), Finnigan Magnum	September 2009

CENTRAL CHARACTERIZATION PROJECT LIST OF CERTIFIED PROCEDURES AT IDAHO NATIONAL LABORATORY		
#	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 TRUPACT-II Authorized Method for Payload Control (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-016	CCP Gas Generation Testing Program (GGTP) Quality Assurance Project Plan
7.	CCP-PO-024	CCP/INL Interface Document
8.	CCP-PO-030	CCP/Battelle Energy Alliance Analytical Chemistry & Instrument Department Interface Document
9.	CCP-PO-031	CCP/Idaho Cleanup Project Analytical Laboratories Department Interface Document
10.	CCP-PO-501	CCP/INL RH TRU Waste Interface Document
11.	CCP-PO-505	CCP Remote-Handled Transuranic Waste Authorized Methods for Payload Control (CCP RH-TRAMPAC)
12.	CCP-QP-001	CCP Graded Approach
13.	CCP-QP-002	CCP Training and Qualification Plan
14.	CCP-QP-004	CCP Corrective Action Management
15.	CCP-QP-005	CCP TRU Nonconforming Item Reporting and Control
16.	CCP-QP-006	CCP Corrective Action Reporting and Control
17.	CCP-QP-008	CCP Records Management
18.	CCP-QP-010	CCP Document Preparation, Approval, and Control
19.	CCP-QP-011	CCP Notebooks and Logbooks
20.	CCP-QP-014	CCP Data Analysis and Trending
21.	CCP-QP-015	CCP Procurement
22.	CCP-QP-016	CCP Control of Measuring, Testing, and Data Collection Equipment
23.	CCP-QP-017	CCP Identification and Control of Items
24.	CCP-QP-018	CCP Management Assessment
25.	CCP-QP-019	CCP Quality Assurance Reporting to Management
26.	CCP-QP-021	CCP Surveillance Program
27.	CCP-QP-022	CCP Software Quality Assurance Plan
28.	CCP-QP-023	CCP Handling, Storage and Shipping
29.	CCP-QP-025	CCP Lessons Learned Program Management Control Procedure
30.	CCP-QP-026	CCP Inspection Control
31.	CCP-QP-027	CCP Test Control
32.	CCP-QP-028	CCP Records Filing, Inventorying, Scheduling, and Dispositioning
33.	CCP-QP-030	CCP Written Practice for the Qualification of CCP Helium Leak Detection Personnel
34.	CCP-QP-036	CCP Qualification of Acceptable Knowledge of Remote-Handled Transuranic Waste Through a Quality Assurance Equivalency Demonstration
35.	CCP-TP-001	CCP Project Level Data Validation and Verification
36.	CCP-TP-002	CCP Reconciliation of DQOs and Reporting Characterization Data
37.	CCP-TP-003	CCP Data Analysis for S3000, S4000, and S5000 Characterization
38.	CCP-TP-005	CCP Acceptable Knowledge Documentation
39.	CCP-TP-006	CCP Visual Examination Technique for INL Newly Generated TRU Waste Retrieved from Pits
40.	CCP-TP-008	CCP Solids Sampling Procedure
41.	CCP-TP-010	CCP Waste Assay Gamma Spectrometer (WAGS) & SWEPP Gamma Ray Spectrometer (SRGS) Calibration Procedure
42.	CCP-TP-019	CCP Waste Assay Gamma Spectrometer (WAGS) Operating Procedure
43.	CCP-TP-028	CCP Radiographic Test and Training Drum Requirements
44.	CCP-TP-030	CCP CH TRU Waste Certification and WWIS Data Entry
45.	CCP-TP-033	CCP Shipping of CH TRU Waste
46.	CCP-TP-053	CCP Standard Real-Time Radiography (RTR) Inspection Procedure
47.	CCP-TP-054	CCP Adjustable Center of Gravity Lift Fixture Preoperational Checks and Shutdown
48.	CCP-TP-055	CCP Varian Porta-Test Leak Detector Operations
49.	CCP-TP-056	CCP HSG Performance Demonstration Plan
50.	CCP-TP-058	CCP NDA Performance Demonstration Program
51.	CCP-TP-068	CCP Container Management at Idaho National Laboratory (INL)
52.	CCP-TP-082	CCP Preparing and Handling Waste Drums for Headspace Gas Sampling

CENTRAL CHARACTERIZATION PROJECT LIST OF CERTIFIED PROCEDURES AT IDAHO NATIONAL LABORATORY		
#	Procedure No.	Procedure Title
53.	CCP-TP-083	CCP Heated Gas Test Canister Operations
54.	CCP-TP-086	CCP TRUPACT-II Shipping Payload Assembly
55.	CCP-TP-089	CCP Mobile Gas Generation Testing Sampling System (MGSS) Sampling Operation
56.	CCP-TP-092	CCP Mobile Gas Generation Testing Sampling System (MGSS) Data Calculation
57.	CCP-TP-093	CCP Sampling of TRU Waste Containers
58.	CCP-TP-094	CCP GGTP Drum Screening and Batching
59.	CCP-TP-106	CCP Headspace Gas Sampling Batch Data Report Preparation
60.	CCP-TP-107	Operating the CCP High Efficiency Neutron Counter Using NDA 2000
61.	CCP-TP-108	Calibrating the CCP High Efficiency Neutron Counter Using NDA
62.	CCP-TP-109	CCP Data Reviewing, Validating, and Reporting Procedure
63.	CCP-TP-115	CCP SWEPP Gamma-Ray Spectrometer (SGRS) Operating Procedure
64.	CCP-TP-119	CCP Operating the RTR System #5
65.	CCP-TP-138	CCP Execution of Long-Term Objective for the Unified Flammable Gas Test Procedure
66.	CCP-TP-146	CCP SuperHENC Operating Procedure
67.	CCP-TP-148	CCP SuperHENC Data Reviewing, Validating and Reporting Procedure
68.	CCP-TP-162	CCP Random Selection of Containers for Solids and Headspace Gas Sampling and Analysis
69.	CCP-TP-163	CCP Standard Visual Examination of Records
70.	CCP-TP-170	CCP SuperHENC Calibration Procedure
71.	CCP-TP-173	CCP Analysis of Gas Samples for VOCs by GC/FID
72.	CCP-TP-175	CCP Analysis of Gas Samples for VOCs by GS/MS
73.	CCP-TP-176	CCP Determination of Method Detection Limits for Gas Analysis
74.	CCP-TP-177	CCP Sample Receipt, Custody, and Storage
75.	CCP-TP-178	CCP SUMMA® Canister Cleaning
76.	CCP-TP-179	CCP Gas Transfer Manifold Systems and Sample Compositing
77.	CCP-TP-180	CCP Analytical Sample Management
78.	CCP-TP-181	CCP Determination of Mercury by CVAA for TRU Waste Characterization
79.	CCP-TP-182	CCP Determination of Metals of ICP-AES for TRU Waste Characterization
80.	CCP-TP-183	CCP Microwave Assisted Digestion of Homogenous Solids and Soil/Gravel
81.	CCP-TP-184	CCP Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry
82.	CCP-TP-185	CCP Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry
83.	CCP-TP-186	CCP Determination of Nonhalogenated Volatile Organics by Gas Chromatography
84.	CCP-TP-187	CCP Sample Preparation for Semivolatile Organic Compounds
85.	CCP-TP-188	CCP Analytical Data Recording, Review, and Reporting
86.	CCP-TP-500	CCP Remote-Handled Waste Visual Examination
87.	CCP-TP-504	CCP Dose-to-Curie Survey Procedure for Remote-Handled Transuranic Waste
88.	CCP-TP-506	CCP Preparation of the Remote-Handled Transuranic Waste Acceptable Knowledge Characterization Reconciliation Report
89.	CCP-TP-507	CCP Shipping of Remote-Handled Transuranic Waste
90.	CCP-TP-508	CCP RH Standard Real-Time Radiography Inspection Procedure
91.	CCP-TP-509	CCP Remote-Handled Transuranic Container Tracking
92.	CCP-TP-510	CCP Remote-Handled Radiography Test and Training Drum Requirements
93.	CCP-TP-512	CCP Remote-Handled Waste Sampling
94.	CCP-TP-530	CCP RH TRU Waste Certification and WWIS Data Entry

CENTRAL CHARACTERIZATION PROJECT LIST OF DEACTIVATED PROCEDURES AT IDAHO NATIONAL LABORATORY			
#	Procedure No.	Procedure Title	Deactivation Date
1.	CCP-PO-025	CCP WIPP/RCRA Field Sampling and Analysis Plan for the Accelerated Retrieval Project for a Described Area within Pit 4	11/16/06
2.	CCP-QP-009	CCP Work Control Process	10/13/06
3.	CCP-TP-090	CCP Headspace Gas Sampling Using the Automated Manifold System	7/31/06
4.	CCP-TP-091	CCP HSG Data Generation and Batch Data Reporting	6/6/06
5.	CCP-TP-097	CCP Operating the CCP Tomographic Gamma Scanner (TGS)	3/12/08
6.	CCP-TP-110	Setup and Calibration of the CCP Tomographic Gamma Scanner (TGS)	3/12/08
7.	CCP-TP-112	CCP Data Reviewing, Validating, and Reporting for the TGS	3/12/08
8.	CCP-TP-102	CCP RTR #2 Radiography Inspection Operating Procedure – incorporated into CCP-TP-053	11/16/06
9.	HFEF-OI-6862	TWCP Sample Storage and Shipment	6/6/06
10.	HFEF-OI-6890	TWCP Visual Examination	6/6/06
11.	HFEF-OI-6910	TWCP Core Drilling Operations	6/6/06
12.	HFEF-OI-6921	TWCP Solid Sample Preparation	6/6/06
13.	HFEF-OI-6923	Small Container Sample Preparation	6/6/06
14.	NT-AP-03	TRU Waste Characterization Program Data Generation-Level Review	6/6/06
15.	NT-AP-09	TWCP Visual Exam Expert (VEE) Functions and Process	6/6/06
16.	ACLP 4.10	Determination of Method Detection Limits for Gas Analysis – incorporated into CCP-TP-176	5/2/07
17.	ACLP 4.25	Sample Receiving, Custody, and Storage – incorporated into CCP-TP-177	5/2/07
18.	ACLP 4.40	Summa® Canister Cleaning – incorporated into CCP-TP-178	5/2/07
19.	ACLP 4.45	Gas Transfer Manifold Systems and Sample Compositing – incorporated into CCP-TP-179	5/2/07
20.	ACMM-2810	Determination of Mercury by CVAA for TRU Waste Characterization – incorporated into CCP-TP-181	5/2/07
21.	ACMM-2901	Determination of Metals by ICP-AES for TRU Waste Characterization – incorporated into CCP-TP-182	5/2/07
22.	ACMM-8909	Microwave Assisted Digestion of Homogeneous Solids and Soil/Gravel – incorporated into CCP-TP-183	5/2/07
23.	ACMM-9080	Determination of Polychlorinated Biphenyls (PCBs) by Gas Chromatography	4/27/04
24.	ACMM-9260	Volatile Organic Compounds by Gas Chromatography Mass Spectrometry – incorporated into CCP-TP-184	5/2/07
25.	ACMM-9270	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry – incorporated into CCP-TP-185	5/2/07
26.	ACMM-9441	Determination of Nonhalogenated Volatile Organics by Gas Chromatography – incorporated into CCP-TP-186	5/2/07
27.	ACMM-9500	Sample Preparation for Semivolatile Organic Compounds and Polychlorinated Biphenyls – incorporated into CCP-TP-187	5/2/07
28.	ACMM-9910	Analysis of Gas Samples for VOCs by GC/FID – incorporated into CCP-TP-173	5/2/07
29.	ACMM-9925	Analysis of Gas Samples for Hydrogen and Methane by Micro GC/TCD	5/2/07
30.	ACMM-9930	Analysis of Gas Samples for VOCs by GC/MS – incorporated into CCP-TP-175	5/2/07
31.	MCP-2002	Analytical Sample Management – incorporated into CCP-TP-180	5/2/07
32.	MCP-2008	Analytical Data Recording, Review and Reporting – incorporated into CCP-TP-188	5/2/07
33.	MCP-2009	Analytical Software Control – incorporated into CCP-QP-022	5/2/07
34.	MCP-2610	QA Program Administrative Controls for the TWCP – incorporated into CCP-PO-001, CCP-PO-002, CCP-PO-003, CCP-QP-002,	5/2/07

CENTRAL CHARACTERIZATION PROJECT LIST OF DEACTIVATED PROCEDURES AT IDAHO NATIONAL LABORATORY			
#	Procedure No.	Procedure Title	Deactivation Date
		CCP-QP-005, CCP-QP-006, CCP-QP-008, CCP-QP-010, CCP-QP-016 and CCP-QP-022	
35.	MCP-2011	CCP Notebooks and Logbooks	5/2/07
36.	PLN-1258	Quality Program Plan for the TWCP – incorporated into CCP-PO-002	5/2/07
37.	PLN-600	Analytical Laboratories Quality Assurance Plan for the TWCP – incorporated into CCP-PO-001 and CCP-TP-188	5/2/07
38.	TWCP-CBFO-SOW	CBFO Statement of Work for the INL TRU Waste Characterization Program – incorporated into CCP-PO-001	5/2/07
39.	CCP-TP-160	CCP Random Selection of Containers for Headspace Gas Sampling and Analysis	7/2/09
40.	CCP-TP-161	CCP Random Selection of Containers for Solids Sampling and Analysis	7/2/09