

United States Government

Department of Energy

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**memorandum**Carlsbad Field Office  
Carlsbad, New Mexico 88221

DATE: August 20, 2020

REPLY TO  
ATTN OF: CBFO:OQA:JL:JM:20-0865:UFC 2300.00

SUBJECT: Recertification Audit A-20-19 of the AMWTP Transuranic Waste Characterization and Certification Program

TO: Jim Malmo, DOE-ID

Please be advised that an audit team from the U.S. Department of Energy (DOE) Carlsbad Field Office (CBFO) will conduct Waste Isolation Pilot Plant (WIPP) Hazardous Waste Facility Permit Attachment C6 Audit A-20-19 for recertification of the Advanced Mixed Waste Treatment Project (AMWTP) for conducting contact-handled (CH) transuranic waste characterization activities. The audit is scheduled for September 22 – September 24, 2020, and will be conducted in accordance with the attached audit plan.

The AMWTP activities for characterizing CH transuranic Summary Category Group (SCG) S3000 homogeneous solids, SCG S4000 soils/gravel, and SCG S5000 debris wastes will be evaluated during the audit. In addition, the audit team will verify compliance with the WIPP Waste Acceptance Criteria. Representatives from CBFO, DOE, and the New Mexico Environment Department may be present to observe the audit.

Your representatives are requested to coordinate with the audit team to provide access to supply the necessary documentation and records for the audit team to conduct the audit. Please arrange to have cognizant personnel available to support the audit.

If you have any questions concerning the audit, please contact me at (575) 499-5054.

Joe Lopez  
Software Quality Assurance Specialist

Attachment

**SCANNED**

200811



cc: w/attachment  
J. Perkins, EM-3.113 \* ED  
R. Knerr, CBFO ED  
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Site Documents ED  
J. Maupin, CTAC ED  
CBFO M&RC ED  
CBFO QA File ED

\*ED denotes electronic distribution

**CARLSBAD FIELD OFFICE  
AUDIT PLAN**

**Audit Number:** A-20-19

**Organization to be Audited:** Advanced Mixed Waste Treatment Project (AMWTP) Fluor Idaho, LLC

**Organizations to be Notified:** Fluor Idaho, LLC  
U.S. Department of Energy – Idaho Operations Office (DOE-ID)  
New Mexico Environment Department (NMED)  
U.S. Environmental Protection Agency (EPA)  
Defense Nuclear Facilities Safety Board (DNFSB)

**Date and Location:** September 22 – 24, 2020  
AMWTP Idaho National Laboratory (INL) Site near Idaho Falls, and  
AMWTP Sawtelle Street, Idaho Falls, Facility

**Audit Team:**

Joe Lopez*	Carlsbad Field Office (CBFO) Office of Quality Assurance (QA) Management Representative
Dustin Stegman*	Audit Team Leader, CBFO Technical Assistance Contractor (CTAC)
Cindi Castillo*	Auditor, Co-Team Leader, (CTAC)
Harley Kirschenmann*	Auditor, CTAC (Organization/QA Program/Program Status)
Bob Prentiss*	Auditor, CTAC (Procurement, Graded Approach)
Katie Gentry*	Auditor, CTAC (C6 QA, Quality Improvement, Corrective Actions, Nonconformances)
Kathy Hood*	Auditor. CTAC (Management & Independent Assessments)
Nathan Denney*	Auditor, CTAC (Container Management, M&TE, Instrumentation)
Charlie Riggs*	Auditor, CTAC (C6 QA, Document Control, Records)
Stephen Shafer*	Auditor, CTAC (RTR)
Porf Martinez*	Auditor, CTAC (VE)
Prissy Yanez*	Auditor, CTAC (NDA/PDP)
Tim Boswell*	Auditor, CTAC (C6 QA, Training)
Bob Blyth*	Auditor/Technical Specialist, CTAC (C6 QA, WWIS/WDS, Software Quality Assurance)
Randy Fitzgerald*	Auditor/Technical Specialist, CTAC (AK)
Paul Gomez*	Technical Specialist, CTAC (PL V&V)
Dick Blauvelt*	Technical Specialist, CTAC (AK, Load Mgmt.)

Rick Castillo*	Technical Specialist, CTAC (VE)
Shelly Gomez*	Technical Specialist, CTAC (RTR)
Jim Oliver*	Technical Specialist, CTAC (NDA/PDP)
Michel Hall*	Technical Specialist, CTAC (NDA/PDP)

\* Indicates team members working via teleconference

### **Audit Scope:**

The audit team will evaluate the continued adequacy, implementation, and effectiveness of the technical and QA activities performed by AMWTP for characterization of contact-handled (CH) transuranic waste summary category groups (SCGs) S3000 homogeneous solids, S4000 soils/gravel, and S5000 debris wastes.

The audit team will also verify that a technical review of the generator site's processes has been performed and any issues identified during the technical review have been resolved per DOE/WIPP-16-3564, *Generator Site Technical Review Procedure*.

Due to heightened awareness and to decrease the potential development, spread, and impact of the acute respiratory illness, COVID-19, audit team members will not travel to the AMWTP site at this time. Digital media such as video and photography may be taken to supplement objective evidence. Audit activities will be conducted remotely and via teleconference from Carlsbad, NM and Idaho Falls, ID. This will not be the normal method for performing recertification audits. The audit will be performed in accordance with this plan unless additional changes emerge or restrictions are lifted that will allow for assessment of field activities. Field evaluation activities may be conducted at a later date. Transportation and Flammable Gas Analysis activities will not be included in the scope of this audit.

A list of the equipment and processes to be evaluated is attached to this plan (Attachment 1).

### **Governing Documents/Requirements:**

Evaluation of the overall program adequacy, implementation, and effectiveness of AMWTP documents will be based on the current revisions of the following documents:

- *CBFO Quality Assurance Program Document*, DOE/CBFO-94-1012
- Waste Isolation Pilot Plant Hazardous Waste Facility Permit NM4890139088TSDF
- *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant*, DOE/WIPP-02-3122
- *Waste Isolation Pilot Plant Documented Safety Analysis*, DOE/WIPP-07-3372 (Chapter 18)

Programmatic and technical checklists will be developed from the current revisions of the following documents:

- *Certification Plan for INL Transuranic Waste*, PLN-5198
- *Quality Assurance Project Plan*, PLN-5199
- Related AMWTP QA and technical implementing procedures

**Activities to be Audited:**

**General**

- Results of Previous Audits
- Changes in Programs or Operations
- New Programs or Activities Being Implemented
- Changes in Key Personnel

**C6-1 through C6-4 and general QA program elements, as applicable**

- Organization/QA Program
- Nonconformances
- Personnel Qualification and Training
- Measuring and Test Equipment (M&TE)
- Software Version Installation
- Records
- Quality Improvement
- Work Processes
- Procurement
- Audits/Assessments

**Technical Activities**

- Project-level Data Validation and Verification (PL/V&V)
- Acceptable Knowledge (AK)
- Real-time Radiography (RTR)
- Visual Examination (VE)
- Boxline operations, including Squeezants re-introduced into the boxline and processed for super-compaction
- Nondestructive Assay (NDA), including Performance Demonstration Program
- Container Management
- WIPP Waste Information System/Waste Data System (WWIS/WDS)

**Schedule of Audit Activities:**

A pre-audit conference is scheduled for Tuesday, September 22, 2020, at 8:30 a.m. (MDT).

If needed, the audit team leader will conduct a management briefing with appropriate AMWTP management at 8:30 a.m. (MDT) Wednesday and Thursday, September 23 and 24, 2020.

A post-audit conference is scheduled for Thursday, September 24, 2020, at 3:00 p.m. (MDT)

All meetings will take place via teleconference.

**Approved By:** \_\_\_\_\_

Dustin Stegman, CTAC  
Audit Team Leader

**Date:** \_\_\_\_\_

**Approved By:** \_\_\_\_\_

Mike Brown, Acting Director  
CBFO Office of Quality Assurance

**Date:** \_\_\_\_\_

AMWTP LIST OF EQUIPMENT/PROCESSES					
WIPP #	Site Equipment #	Equipment Description	Components	Software	NDA Calibrated Range, Operating Range and TMU
<b>• NONDESTRUCTIVE ASSAY</b>					
9DA1	Z-211-102	<p>Canberra Integrated Waste Assay System (IWAS) for assay and isotopics on 55-gallon and 83/85-gallon drums</p> <p>DAS –102 - PDP Registration # AM01/AMN1 Method described in procedure TPR-8094</p> <p>Location: WMF-634</p>	<ul style="list-style-type: none"> <li>Broad Energy Germanium (BEGe) gamma detectors</li> <li>122 helium-3 tubes used in passive neutron coincidence counting modality and the active neutron differential die- away modality</li> <li>Cf-252/Cs-137 Add-A-Source (AAS) correction source</li> <li>14 MeV neutron generator</li> <li>Fast Neutron Detector Packs (FNDP)</li> </ul>	<ul style="list-style-type: none"> <li>NDA 2000</li> <li>Canberra's Genie 2000</li> <li>Multi-Group Analysis (MGA)</li> <li>Multi-Group Analysis-Uranium (MGA-U)</li> </ul>	<p>The calibration of IWAS system was verified and documented in the site acceptance reports CI-IDA-NDA-0051 through CI-IDA-NDA-0054.</p> <p>The calibration of the IWAS was verified and documented in CI-IDA-NDA-0035. Calibration Verification and Confirmation Procedure for the IWAS at AMWTP.</p> <p>The determination of TMU for the IWAS unit is documented in CI-IDA-NDA- 0055, Total Measurement Uncertainty for the AMWTP Integrated Waste Assay Systems.</p>
9DA2	Z-211-103	<p>Canberra Integrated Waste Assay System (IWAS) for assay and isotopics on 55-gallon and 83/85-gallon drums</p> <p>DAS-103 - PDP Registration # AM02/AMN2 Method described in procedure TPR-8094</p> <p>Location: WMF-634</p>	<ul style="list-style-type: none"> <li>Broad Energy Germanium (BEGe) gamma detectors</li> <li>122 helium-3 tubes used in passive neutron coincidence counting modality and the active neutron differential die-away modality</li> <li>Cf-252/Cs-137 Add-A-Source (AAS) correction source</li> <li>14 MeV neutron generator</li> <li>Fast Neutron Detector Packs (FNDP)</li> </ul>	<ul style="list-style-type: none"> <li>NDA 2000</li> <li>Canberra's Genie 2000</li> <li>Multi-Group Analysis (MGA)</li> <li>Multi-Group Analysis-Uranium (MGA-U)</li> </ul>	<p>The calibration of IWAS system was verified and documented in the site acceptance reports CI-IDA-NDA-0051 through CI-IDA-NDA-0054.</p> <p>The calibration of the IWAS was verified and documented in CI-IDA-NDA- 0035. Calibration Verification and Confirmation Procedure for the IWAS at AMWTP.</p> <p>The determination of TMU for the IWAS unit is documented in CI-IDA-NDA- 0055, "Total Measurement Uncertainty</p>

<b>AMWTP LIST OF EQUIPMENT/PROCESSES</b>					
WIPP #	Site Equipment #	Equipment Description	Components	Software	NDA Calibrated Range, Operating Range and TMU
					for the AMWTP Integrated Waste Assay Systems".
9DA3	Z-390-100	<p>Canberra Integrated Waste Assay System (IWAS) - DAS3 – 55 gallon drums</p> <p>DAS-100 – PDP Registration # AM03/AMN3 Method described in TPR-8025</p> <p>Location: WMF-676</p>	<ul style="list-style-type: none"> <li>• Broad Energy Germanium (BEGe) gamma detectors</li> <li>• 122 helium-3 tubes used in passive neutron coincidence counting modality and the active neutron differential die- away modality</li> <li>• Cf-252/Cs-137 Add-A-Source (AAS) correction source</li> <li>• 14 MeV neutron generator</li> <li>• Fast Neutron Detector Packs (FNDP)</li> </ul>	<ul style="list-style-type: none"> <li>• NDA 2000</li> <li>• Canberra's Genie 2000</li> <li>• Multi-Group Analysis (MGA)</li> <li>• Multi-Group Analysis-Uranium (MGA-U)</li> </ul>	<p>The calibration of IWAS system was verified and documented in the site acceptance reports CI-IDA-NDA-0051 through CI-IDA-NDA-0054.</p> <p>The calibration of the IWAS was verified and documented in CI-IDA-NDA-0035. Calibration Verification and Confirmation Procedure for the IWAS at AMWTP.</p> <p>The determination of TMU for the IWAS unit is documented in CI-IDA-NDA-0055, Total Measurement Uncertainty for the AMWTP Integrated Waste Assay Systems.</p>
DA4	Z-390-101	<p>Canberra Integrated Waste Assay System (IWAS) - DAS4 – 55 gallon drums</p> <p>DAS-101 – PDP Registration # AM04/AMN4 Method described in TPR-8025</p> <p>Location: WMF-676</p>	<ul style="list-style-type: none"> <li>• Broad Energy Germanium (BEGe) gamma detectors</li> <li>• 122 helium-3 tubes used in passive neutron coincidence counting modality and the active neutron differential die- away modality</li> <li>• Cf-252/Cs-137 Add-A-Source (AAS) correction source</li> <li>• 14 MeV neutron generator</li> <li>• Fast Neutron Detector Packs (FNDP)</li> </ul>	<ul style="list-style-type: none"> <li>• NDA 2000</li> <li>• Canberra's Genie 2000</li> <li>• Multi-Group Analysis (MGA)</li> <li>• Multi-Group Analysis-Uranium (MGA-U)</li> </ul>	<p>The calibration of IWAS system was verified and documented in the site acceptance reports CI-IDA-NDA-0051 through CI-IDA-NDA-0054.</p> <p>The calibration of the IWAS was verified and documented in CI-IDA-NDA-0035. Calibration Verification and Confirmation Procedure for the IWAS at AMWTP.</p> <p>The determination of TMU for the IWAS unit is documented in CI-IDA-NDA-0055, Total Measurement Uncertainty for the AMWTP</p>



AMWTP LIST OF EQUIPMENT/PROCESSES					
WIPP #	Site Equipment #	Equipment Description	Components	Software	NDA Calibrated Range, Operating Range and TMU
					Integrated Waste Assay Systems.
9RBAS1	Z-212-105	<p>Retrieval Box Assay System (RBAS)</p> <p>BAS-105- PDP Registration #AM05/AMN5 Method described in TPR-8095</p> <p>Location: WMF-634</p>	<ul style="list-style-type: none"> <li>Broad Energy Germanium (BEGe) gamma detectors</li> <li>84 six foot helium-3 tubes used in passive neutron coincidence counting modality and the active neutron differential die-away modality</li> <li>Eu-152 Source Gamma check source</li> <li>14 MeV neutron generator</li> <li>4 Flux monitor assemblies</li> </ul>	<ul style="list-style-type: none"> <li>PSC RBAS.exe</li> <li>PSC RWARS software package</li> </ul>	The calibration of the RBAS was verified and documented in PSC-5431-CCR-001, Calibration Confirmation Report. The determination of TMU for the RBAS unit is documented in BII-5112-TMU-001, AMWTP Retrieval Box Assay System Total Measurement Uncertainty Report.
9WAGS1	WAGS-610	<p>Waste Assay Gamma Spectrometer (WAGS)</p> <p>WAGS – PDP Registration # AM07/AMG2 Method described in TPR-8093</p> <p>Location: WMF-610</p>	<ul style="list-style-type: none"> <li>Broad Energy Germanium (BEGe) gamma detectors</li> <li>Barium Transmission Source</li> </ul>	<ul style="list-style-type: none"> <li>NDA 2000</li> <li>Canberra's Genie 2000</li> <li>Multi-Group Analysis (MGA)</li> <li>Multi-Group Analysis-Uranium (MGA-U)</li> </ul>	The calibration of the WAGS was verified and documented in CCP-INL-WAGS-001 and CCP-INL-WAGS-003, Waste Assay Gamma Spectrometer (WAGS) Calibration, Confirmation, and Verification Reports. The determination of TMU for the WAGS is documented in CCP-INL-WAGS-002, Total Measurement Uncertainty for the WAGS System.
9SGRS1	SGRS-610	<p>SWEPP Gamma-Ray Spectrometer (SGRS)</p> <p>SGRS – PDP Registration # AM06/AMG1 Method described in TPR-8092).</p> <p>Location: WMF-610</p>	<ul style="list-style-type: none"> <li>Broad Energy Germanium (BEGe) gamma detectors</li> </ul>	<ul style="list-style-type: none"> <li>NDA 2000</li> <li>Canberra's Genie 2000</li> <li>Multi-Group Analysis (MGA)</li> <li>Multi-Group Analysis-Uranium (MGA-U)</li> </ul>	The calibration of the WAGS was verified and documented in CCP-INL-SGRS-001 SWEPP Gamma-Ray Spectrometer (SGRS) Calibration, Confirmation, and Verification Report. The determination of TMU for the SGRS is documented in CCP-INL-SGRS-002, Total Measurement Uncertainty for the SGRS System.

<b>AMWTP LIST OF EQUIPMENT/PROCESSES</b>					
WIPP #	Site Equipment #	Equipment Description	Components	Software	NDA Calibrated Range, Operating Range and TMU
9ISOCS1	Z-295-100	In-situ Object Counting System (ISOCS)  ISOCS – PDP Registration # AM08/AMG3 Method described in TPR-8182  Location: WMF-635	<ul style="list-style-type: none"> <li>• Broad Energy Germanium (BEGe) gamma detector</li> </ul>	<ul style="list-style-type: none"> <li>• NDA 2000</li> <li>• Canberra's Genie 2000</li> <li>• Multi-Group Analysis (MGA)</li> <li>• Multi-Group Analysis-Uranium (MGA-U)</li> </ul>	Drum Assay  The calibration of the ISOCS was verified and documented in 10000008684, ISOCS Calibration, Confirmation and Verification Report. The determination of TMU for the ISOCS is documented in 10000008683, Total Measurement Uncertainty for ISOCS.
9ISOCS2	Z-295-101	In-situ Object Counting System (ISOCS)  ISOCS – PDP Registration # AM09/AMG4 Method described in TPR-8182  Location: WMF-635	<ul style="list-style-type: none"> <li>• Low Energy Germanium (LEGe) gamma detector</li> </ul>	<ul style="list-style-type: none"> <li>• NDA 2000</li> <li>• Canberra's Genie 2000</li> <li>• Multi-Group Analysis (MGA)</li> <li>• Multi-Group Analysis-Uranium (MGA-U)</li> </ul>	Drum Assay  The calibration of the ISOCS was verified and documented in 10000008684, ISOCS Calibration, Confirmation and Verification Report. The determination of TMU for the ISOCS is documented in 10000008683, Total Measurement Uncertainty for ISOCS.
9ISOCS3	Z-295-200	In-situ Object Counting System (ISOCS)  ISOCS – PDP Registration # AM10/AMG5 Method described in TPR-8182  Location: WMF-635	<ul style="list-style-type: none"> <li>• Broad Energy Germanium (BEGe) gamma detector</li> </ul>	<ul style="list-style-type: none"> <li>• NDA 2000</li> <li>• Canberra's Genie 2000</li> <li>• Multi-Group Analysis (MGA)</li> <li>• Multi-Group Analysis-Uranium (MGA-U)</li> </ul>	Box Assay  The calibration of the ISOCS was verified and documented in 10000008684, ISOCS Calibration, Confirmation and Verification Report. The determination of TMU for the ISOCS is documented in 10000008683, Total Measurement Uncertainty for ISOCS.
9ISOCS4	Z-295-201	In-situ Object Counting System (ISOCS)  ISOCS – PDP Registration # AM011/AMG6 Method described in TPR-8182	<ul style="list-style-type: none"> <li>• Low Energy Germanium (LEGe) gamma detector</li> </ul>	<ul style="list-style-type: none"> <li>• NDA 2000</li> <li>• Canberra's Genie 2000</li> <li>• Multi-Group Analysis (MGA)</li> </ul>	Box Assay  The calibration of the ISOCS was verified and documented in

AMWTP LIST OF EQUIPMENT/PROCESSES					
WIPP #	Site Equipment #	Equipment Description	Components	Software	NDA Calibrated Range, Operating Range and TMU
		Location: WMF-635		<ul style="list-style-type: none"> <li>Multi-Group Analysis-Uranium (MGA-U)</li> </ul>	10000008684, ISOCS Calibration, Confirmation and Verification Report. The determination of TMU for the ISOCS is documented in 10000008683, Total Measurement Uncertainty for ISOCS.
<b>NONDESTRUCTIVE EXAMINATION</b>					
9RR1	Z-213-101	Real-Time Radiography System Method described in TPR-8 Location: WMF-634.	RTR System	Waste Tracking System (WTS)	N/A
9RR2	Z-213-106	Real-Time Radiography System Method described in TPR-8089 Location: WMF-634.	RTR System	Waste Tracking System (WTS)	N/A
9RR3	RTR-RTR-1001	Real-Time Radiography System Method described in TPR-8120 Location: WMF-610.	RTR System	Waste Tracking System (WTS)	N/A
<b>VISUAL EXAMINATION</b>					
9VE6	N/A	Newly Generated Waste Visual Examination Closure (VNC) Method described in TPR-8041. Location: WMF-676	N/A	Waste Tracking System (WTS)	N/A
9VE7	N/A	Box Line Visual Examination (VEB) Box to drum repackaging Method described in TPR-8041. Location: WMF-676	N/A	Waste Tracking System (WTS)	N/A
9VE8	N/A	Box Line Visual Examination (VEB) Drum to new drum repackaging Method described in TPR-8041. Location: WMF-676	N/A	Waste Tracking System (WTS)	N/A
9VE12	N/A	Visual Examination: ARP Packaging Stations (VEA and VEP). Newly-generated waste from retrieval of buried waste at the INL Method described in TPR-7997. Location: ARP/SRP	N/A	Waste Tracking System (WTS)	N/A

**Table 1**  
**AMWTP CH Certified Waste Characterization Processes To Be Audited**  
**TBA – To Be Audited**

<b>Characterization Process<sup>2, 3</sup></b>	<b>CH S3000 Homogenous solids</b>	<b>CH S4000 ARP Soils/Gravel</b>	<b>CH S5000 Debris</b>
Visual Examination (VE)	TBA*	TBA	TBA
Data Generation (DGL)/Project-level Data Verification and Validation (PLV&V)	TBA	TBA	TBA
Real-time Radiography (RTR)	TBA	TBA	TBA
Acceptable Knowledge (AK) Process	TBA	TBA	TBA
Certified Program Acceptable Knowledge Assessments (AKA)	TBA	TBA	TBA
Certified Program Enhanced Chemical Compatibility Evaluation (CCE)	TBA	TBA	TBA
Basis of Knowledge (BOK) Evaluating Oxidizing Chemicals in TRU Waste	TBA	TBA	TBA
Nondestructive Assay <sup>1</sup>	TBA	TBA	TBA
Performance Demonstration Program (PDP)	TBA	TBA	TBA
WIPP Waste Information System/Waste Data System	TBA	TBA	TBA
Container Management (CM)/Load Management <sup>4</sup>	TBA	TBA	TBA
WWIS/WDS	TBA	TBA	TBA
Flammable Gas Analysis (FGA)	TBA	TBA	TBA
Transportation Operations relative to implementation of procedures	TBA	TBA	TBA

<sup>1</sup>Based on the EPA approved report DOCKET NO: A-98-49; II-14-218 dated May 4, 2018, the EPA has no technical issues or concerns with the four IWAS units for assaying CH TRU waste." Section Summary of Evaluation of Integrated Waste Assay System Units Z-211-102, Z-211-103, Z-390-100 and Z-390-101, Page 19 of the report states and doesn't limit the characterization of Summary Category Group using these units.

<sup>2</sup>Characterization Processes in this Table may not be completely listed in Attachment 2.

<sup>3</sup>The IWMDL was not reviewed during the A-18-04 audit since it has not been implemented at AMWTP.

<sup>4</sup>Load Management approved for the following waste streams: Mound Site; Rocky Flats, Environmental Technology Site; Battelle Columbus Laboratories; Bettis Atomic Power Laboratory; Argonne National Laboratory-East; Idaho National Laboratory, including the Materials and Fuel Complex and pre-1980 INL-exhumed Subsurface Disposal Area waste; and waste stream's approved through the Accelerated Retrieval Project S3000 and S5000 Waste from the Subsurface Disposal Area. Load management of any new or unapproved waste stream or new waste category will be a Tier 1.

- EPA approval of AMWTP CH Baseline dated October 3, 2006, Docket No: A-98-49; II-A4-66.
- EPA Tier 1 approval adding Hanford legacy waste to the existing AMWTP BN-510 Waste Stream dated June 10, 2010, Docket No. A-98-49; II-A4127.
- EPA Unannounced Continued Compliance Inspection dated March 16, 2011, Docket No: A-98-49; II-A4-143.
- EPA Tier 1 approval adding ANL and MFC waste dated February 27, 2013, Docket No: A-98-49; II-A4-169.
- EPA Continued Compliance Inspection dated April 25, 2013, Docket No: A-98-49; II-A4-173.
- EPA Tier 1 approval adding SDA waste dated July 9, 2013, Docket No. A-98-49; II-A4-174.
- EPA Tier 1 approval adding LANL waste to the supercompacted BN510.2 Waste Stream dated September 16, 2013, Docket No. A 98-49; II-A4-178.
- EPA Tier 1 approval adding the INL Generated CH TRU S3000 Homogenous Solids and S5000 Debris Wastes dated February 11, 2014, Docket No. A 98 49; II-A4-180.
- EPA Tier 1 approval allowing the assembly of CH debris waste payloads at AMWTP to include some compacted containers (pucks) that cannot be directly measured dated May 13, 2015.
- EPA Tier 1 approval adding the Retrieval Box Assay System (RBAS) NDA system dated October 19, 2015, Docket No: A-98-49; II-A4-200.
- EPA Continued Compliance Inspection from the CCP at Idaho to the AMWTP dated April 4, 2016, Docket No: A-98-49; II-A4-206. EPA has not inspected SCG S4000. Load management of any new or unapproved waste stream or new waste category will be a Tier 1.
- EPA CH Baseline Approval Incorporating Enhanced AK Process dated May 4, 2018, Docket No: A-98-49; II-A4-218. EPA Tier 1 approval adding the ISOCs NDA dated March 6, 2019, Docket No: A-98-49; II-A4-221.
- EPA Tier 1 approval adding the Dual Characterization to the certified program was inspected May 15-16, 2018 is pending approval.