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Title: Los Alamos National Laboratory Spent Fuel Waste Disposition (SFWD)
Quality Assurance (QA) Assessment Report Rev. 1

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Los Alamos National Laboratory

Spent Fuel Waste Disposition (SFWD)

Quality Assurance (QA) Assessment Report

Rev. 1

June 23, 2020

1. ASSESSMENT PURPOSE & SCOPE

An internal assessment was conducted of the Los Alamos National Laboratory (LANL) work activities, as required to complete the FY20 Spent Fuel and Waste Disposition (SFWD) Program Level 4 Milestone M4SF-20LA010802012 - Summary report of QA Assessment conducted on LANL SFWD work packages. It assessed the SFWD activities at LANL to verify the LANL implementation of the NFCSC Quality Assurance (QA) Program meets the requirements of the *NFCSC Quality Assurance Program Document*, Revision 6. The source document for the evaluation is CNP-NFCSC-QAPP-001, Rev 4, *LANL NFCSC Quality Assurance Program Plan*, March 2020. This assessment was performed June 8-11, 2020 by reviewing program documentation, training records, implementation records, and discussion with the LANL QA Point of Contact (POC). The evaluation does not include a review of the ASME NQA-1-2008/1a-2009 Addenda criteria.

2. EXECUTIVE SUMMARY

The LANL NFCSC QAPP Rev. 4 addresses the organization, roles, and responsibilities for the maintenance and implementation of the NE-4 NFCSC QAPP. The results of this assessment concluded that the LANL NFCSC QAPP is effectively and satisfactorily implementing the NE-4 NFCSC program, with the exceptions noted in the assessment report.

The QAPP addresses Quality Rigor Levels, training requirements, and implementation requirements. Documents are reviewed, approved, and uploaded in the Review & Approval System for Scientific and Technical Information (RASSTI), the LANL Records Management System. P1020-1, *Laboratory Records Management* details the process for controlling and maintaining records.

This assessment is a follow up to the FY19 SFWD Assessment and satisfactorily verified that previous concerns and recommendations were completed. Also, this assessment verified that CNP0-NTRD-QAPP-001 was revised to reflect SFWD activities as recommended.

The SFWD activities of the LANL NFCSC Program are satisfactory. The assessment resulted in one observation and one opportunity for improvement. See Section 4 for details.

3. ASSESSMENT TEAM

This assessment was conducted by Emily Wilson, Lead Assessor, Michelle Sharp, Assessor, and John Dunwoody, Assessor.

4. ASSESSMENT RESULTS

The assessment was conducted June 8-11, 2020 in virtual meetings with auditors and

participants at PNNL, INL, and LANL due to the ongoing COVID-19 pandemic. This evaluation was performed by reviewing program documentation, SFWD training records, and program implementation records. The evaluation was conducted on FY19-FY20 milestone activities performed from August 1, 2019 through June 11, 2020. A total of four completed FY19 SFWD milestone activities were available for review.

The details of the results are documented in the SFWD QA Checklist (See Attachment 1).

The assessment reviewed completed work package milestones to verify appropriate Quality Rigor Level (QRL) assignments and associated peer and/or technical reviews were conducted, by reviewing the uploaded documentation into the PICS: NE database. Also, the assessment verified that required training had been effectively implemented. Documentation and records were reviewed to ensure they were complete, easily retrievable and submitted to the laboratory's record system per LANL procedure P1020-1, *Laboratory Records Management*. Lastly, the assessment verified that NFCSC QAPD, Appendix E cover sheets and/or PICS: NE Deliverable Forms were used, that they were properly completed and that they were included in the laboratory's record system.

One observation and one opportunity for improvement (OFI) were identified in this assessment:

Observation: Records are listed as "draft" in the LANL system and are not easily retrievable. Records should be updated to reflect an "active" status.

Opportunity for Improvement: In some cases, LA-UR numbers on final record documents are not complete. Final documents that become records should include complete LA-UR numbers.

The objective evidence reviewed during the assessment is provided in the attachments below.

5. ASSESSMENT CONCLUSIONS

The overall conclusion of the assessment was that the LANL, has satisfactorily and effectively implemented a QA Program in compliance with the NFCSC QAPD, Revision 6 and CNP-NFCSC-QAPP-001, Rev 4, *LANL NFCSC Quality Assurance Program Plan*. The observation and OFI are for information of the assessed organization. There is no formal response required. The observation and OFI will be followed up in the 2021 Level 4 milestone assessment activity.

6. ATTACHMENTS:

- Attachment 1, NFCSC Assessment Checklist, Rev. 2
- Attachment 2, FY 2019 Milestones Reviewed
- Attachment 3, Required Reading Report

Prepared by:

Attachment 1

NUCLEAR FUEL CYCLE AND SUPPLY CHAIN (NFCSC ASSESSMENT CHECKLIST, REV 2 (12-12-29))

Assessment Report Number: FY 2020 LANL SFWD QA Assessment Report, Rev. 1

QAPD Ref. Sect.	Quality Assurance Requirements	Sat	Unsat.	N/A	Verification Conducted
	REQUIREMENT: 1 - PROGRAM				
Section 1.1	Verify that your national laboratory conducting NFCSC work activities is maintaining its interface document, describing the application of their QA Program (including implementing procedures), in compliance with the latest issued NFCSC QAPD revision.	X	<input type="checkbox"/>	<input type="checkbox"/>	PLN-3708 INL NFCSC Quality Assurance Program Plan, Rev. 5 12/4/19 implements NFCSC QAPD Rev. 6 issued October 2019
	REQUIREMENT: 2 - TRAINING				
Section 2.0, POC Responsibilities	Verify that personnel (work package managers and associated laboratory technical staff) have received the required training (which may include self-study).	X		<input type="checkbox"/>	Verified WPM and applicable staff have been trained except for two LANL staff members. Required Reading Completion Report is attached. During the assessment, four workers were removed from training (1 retired, 2 upper level managers, 1 no longer on the program). 2 workers (D. Henzlova, G. Goff) were in-process of completing training.
Section 3.0	REQUIREMENT: 3 - QA REQUIREMENTS FOR WORK PERFORMED BY THE NATIONAL LABORATORIES				
Section 3.1	QUALITY RIGOR LEVEL 1 REQUIREMENTS				
Section 3.1, Table 1.0	Verify activities are conducted in accordance with an established NQA-1- 2000 (or later version) quality assurance program.	<input type="checkbox"/>	<input type="checkbox"/>	X	N/A

Attachment 1

NUCLEAR FUEL CYCLE AND SUPPLY CHAIN (NFCSC ASSESSMENT CHECKLIST, REV 2 (12-12-29))

QAPD Ref. Sect.	Quality Assurance Requirements	Sat	Unsat.	N/A	Verification Conducted
Section 3.1, Table 1.0	Verify software design, development, and testing meets the requirements of NQA-1-2000 (or later version), for Design Control, and, Test Control. In addition, a work package may specify that the activities meet the requirements of NQA-1 Subpart 2.7 Quality Assurance Requirements for Computer Software for Nuclear Facility Applications.	<input type="checkbox"/>	<input type="checkbox"/>	X	N/A
Section 3.2	QUALITY RIGOR LEVEL 2 REQUIREMENTS				
Section 3.2, Table 2.0	Verify activities are conducted in accordance with the Laboratory's DOE-approved quality assurance program.	X	<input type="checkbox"/>	<input type="checkbox"/>	See attached List of Work Packages Reviewed
Section 3.2, Table 2.0	Verify that milestones / deliverables with a Quality Rigor Level 2 received a Peer Review in accordance with NFCSC QAPD Appendix C or a procedure that meets the requirements for Peer Review as specified in Appendix C of the NFCSC QAPD.		<input type="checkbox"/>	X	No QRL-2 deliverables were submitted in FY2019.
Section 3.3	QUALITY RIGOR LEVEL 3 REQUIREMENTS				
Section 3.3, Table 3.0	Verify activities are conducted in accordance with the Laboratory's DOE-approved quality assurance program.	X	<input type="checkbox"/>	<input type="checkbox"/>	See attached list of Work Packages Reviewed
Section 3.3, Table 3.0	Verify that milestones / deliverables with a Quality Rigor Level 3 received a technical review in accordance with NFCSC QAPD Appendix B of the NFCSC QAPD or a procedure that meets the requirements specified in Appendix B of the NFCSC QAPD.	X		<input type="checkbox"/>	See attached list of Work Packages Reviewed. All milestones/deliverables with a QRL-3 included technical reviews.
Section 3.4	QUALITY RIGOR LEVEL 4 REQUIREMENTS				
Section 3.4, Table 4.0	Verify that Laboratory QA requirements apply to the work activity and no additional NFCSC QA requirements (such as QRL-1/NQA-1, QRL-2 or QRL-3) are applied.	X	<input type="checkbox"/>	<input type="checkbox"/>	See attached list of Work Packages Reviewed

Attachment 1

NUCLEAR FUEL CYCLE AND SUPPLY CHAIN (NFCSC ASSESSMENT CHECKLIST, REV 2 (12-12-29))

QAPD Ref. Sect.	Quality Assurance Requirements	Sat	Unsat.	N/A	Verification Conducted
Section 3.4, Table 4.0	Verify, as applicable, that if a QRL-4 milestone / deliverable provides input to a final QRL-2 or QRL-3 milestone / deliverable, that a note was added in the "Comments" section on the Deliverable Form in PICS: NE, stating that review requirements (i.e., peer review, technical review, etc.) will be documented in the final QRL-2 or QRL-3 milestone / deliverable	<input type="checkbox"/>	<input type="checkbox"/>	X	N/A – none were identified during this review.
Section 6.0	GENERAL IMPLEMENTATION REQUIREMENTS				
Section 6.2	Verify that a QRL designation has been assigned to the milestone / deliverable that is associated with the work package.	X	<input type="checkbox"/>	<input type="checkbox"/>	All QRLs were assigned to milestones/ and deliverables.
Section 6.3	Verify that the QRL designation (associated to a particular milestone / deliverable) has been changed accordingly, if the work package has been changed.	X	<input type="checkbox"/>	<input type="checkbox"/>	See attached list of Work Packages reviewed.
Section 6.4	Verify that the QA requirements identified in a work package, including the designated Quality Rigor Level(s) are flowed down to other participants, contractors and/or subcontractors through the appropriate contractual or work control process.	<input type="checkbox"/>	<input type="checkbox"/>	X	N/A
Section 6.6	Verify records are controlled and maintained at your national laboratory site, using each lab's record management system and procedures.	X	<input type="checkbox"/>	<input type="checkbox"/>	<p>Records are controlled using Records Procedure SPO-CNP: 20.001, <i>Civilian Nuclear Program Office Records Management Plan, Rev 2.</i></p> <p>Observation 1: Records are listed as "draft" in the LANL system and are not easily retrievable. The status of reports should be updated to reflect "active" status. See list of work packages reviewed.</p>

Attachment 1

NUCLEAR FUEL CYCLE AND SUPPLY CHAIN (NFCSC ASSESSMENT CHECKLIST, REV 2 (12-12-29))

QAPD Ref. Sect.	Quality Assurance Requirements	Sat	Unsat.	N/A	Verification Conducted
					OFI 1: LA-UR numbers on final records documents are not complete (e.g., LA-UR-19XXXXX).
Section 6.10	Verify each deliverable having a QRL-1, -2, -3 or -4 designation, includes a standardized Document Cover Sheet (Appendix E). If the PICS: NE system permits, complete information entered into the PICS: NE Deliverable Form, and listing the names of all reviewers, satisfies this requirement, including the requirement for signatures on the Document Cover Sheet (Appendix E).	X		<input type="checkbox"/>	See attached List of Work Packages Reviewed
Appendix A	If applicable, verify the NFCSC Nuclear Data activities meet the requirements established in Appendix A of the NFCSC QAPD.	<input type="checkbox"/>	<input type="checkbox"/>	X	N/A
Appendix D	If applicable, verify NEUP University assessment work completed during the year, meets the requirements of Appendix D of the NFCSC QAPD.	<input type="checkbox"/>	<input type="checkbox"/>	X	N/A

Attachment 2
FY 19 Completed Milestones

Milestone	Title	Date Completed	QRL #	Comments
FY19 SFWD Completed Milestones				
M4SF-19LA010304021	Progress Report on Geological Framework for GDSA	8/8/19	QRL-4	Satisfactory LA-UR-19-27943
M4SF-19LA010305032	Dual Purpose Canister of BORAL Solubility	7/25/19	QRL-4	Satisfactory LA-UR-19-27122 but record copy of document cover page has incomplete number LA-UR-19#####. See OFI 1.
M4SF-19LA010310012	LANL Technical Support for Underground Research Laboratory Activities	8/31/19	QRL-4	Satisfactory LA-UR-19-29779 Released as draft – record not updated/uploaded after LA-UR was assigned. Only available with manager’s permission. See Observation 1.
M4SF-19LA-10303014	2019 LANL Experiments and Simulation in Support of Salt R&D	9/30/19	QRL-3	Satisfactory LA-UR-19-29830 Released as draft – record not updated/uploaded after LA-UR was assigned. Only available with manager’s permission. See Observation 1.

Attachment 3 Required Reading Report

Active	User	Last Name	Curriculum ID	Curriculum Title	Completed	Assignment Date	Days Remaining	Item ID	Revision Number	Completion Date	Completion Status ID	Completion Status
Yes	Caporuscio		3438	FCT Quality Assuranc	Y	6/12/14	659	24599	4	4/1/2020 09	RR-COMPL	Completed
Yes	Caporuscio		3438	FCT Quality Assuranc	Y	6/12/14	659	24598	6	4/1/2020 09	RR-COMPL	Completed
Yes	Woloshun		3438	FCT Quality Assuranc	Y	6/12/14	724	24599	4	6/5/2020 12	RR-COMPL	Completed
Yes	Woloshun		3438	FCT Quality Assuranc	Y	6/12/14	724	24598	6	6/5/2020 12	RR-COMPL	Completed
Yes	Viswanathan		3438	FCT Quality Assuranc	Y	2/1/18	663	24599	4	4/5/2020 11	RR-COMPL	Completed
Yes	Viswanathan		3438	FCT Quality Assuranc	Y	2/1/18	663	24598	6	4/5/2020 11	RR-COMPL	Completed
Yes	Maloy		3438	FCT Quality Assuranc	Y	6/12/14	673	24599	4	4/15/2020 0	RR-COMPL	Completed
Yes	Maloy		3438	FCT Quality Assuranc	Y	6/12/14	673	24598	6	4/15/2020 0	RR-COMPL	Completed
Yes	Unal		3438	FCT Quality Assuranc	Y	6/12/14	693	24599	4	5/5/2020 09	RR-COMPL	Completed
Yes	Unal		3438	FCT Quality Assuranc	Y	6/12/14	693	24598	6	5/5/2020 09	RR-COMPL	Completed
Yes	Browne		3438	FCT Quality Assuranc	Y	2/12/19	717	24599	4	5/29/2020 1	RR-COMPL	Completed
Yes	Browne		3438	FCT Quality Assuranc	Y	2/12/19	717	24598	6	5/29/2020 1	RR-COMPL	Completed
Yes	Mcclellan		3438	FCT Quality Assuranc	Y	6/12/14	659	24599	4	4/1/2020 09	RR-COMPL	Completed
Yes	Mcclellan		3438	FCT Quality Assuranc	Y	6/12/14	659	24598	6	4/1/2020 08	RR-COMPL	Completed
Yes	Stauffer		3438	FCT Quality Assuranc	Y	2/1/18	660	24599	4	4/2/2020 09	RR-COMPL	Completed
Yes	Stauffer		3438	FCT Quality Assuranc	Y	2/1/18	660	24598	6	4/2/2020 10	RR-COMPL	Completed
Yes	Weaver		3438	FCT Quality Assuranc	Y	6/12/14	659	24599	4	4/1/2020 07	RR-COMPL	Completed
Yes	Weaver		3438	FCT Quality Assuranc	Y	6/12/14	659	24598	6	4/1/2020 07	RR-COMPL	Completed
Yes	Chu		3438	FCT Quality Assuranc	Y	6/12/14	659	24599	4	4/1/2020 11	RR-COMPL	Completed
Yes	Chu		3438	FCT Quality Assuranc	Y	6/12/14	659	24598	6	4/1/2020 11	RR-COMPL	Completed
Yes	Limback		3438	FCT Quality Assuranc	Y	6/12/14	693	24599	4	5/5/2020 10	RR-COMPL	Completed
Yes	Limback		3438	FCT Quality Assuranc	Y	6/12/14	693	24598	6	5/5/2020 10	RR-COMPL	Completed
Yes	Saleh		3438	FCT Quality Assuranc	Y	6/12/14	728	24599	4	6/9/2020 10	RR-COMPL	Completed
Yes	Saleh		3438	FCT Quality Assuranc	Y	6/12/14	728	24598	6	6/9/2020 10	RR-COMPL	Completed
Yes	Byler		3438	FCT Quality Assuranc	Y	6/12/14	659	24599	4	4/1/2020 09	RR-COMPL	Completed
Yes	Byler		3438	FCT Quality Assuranc	Y	6/12/14	659	24598	6	4/1/2020 09	RR-COMPL	Completed
Yes	Dunwoody		3438	FCT Quality Assuranc	Y	6/12/14	659	24599	4	4/1/2020 11	RR-COMPL	Completed
Yes	Dunwoody		3438	FCT Quality Assuranc	Y	6/12/14	659	24598	6	4/1/2020 11	RR-COMPL	Completed
Yes	Key		3438	FCT Quality Assuranc	Y	2/1/18	685	24599	4	4/27/2020 1	RR-COMPL	Completed
Yes	Key		3438	FCT Quality Assuranc	Y	2/1/18	685	24598	6	4/27/2020 1	RR-COMPL	Completed
Yes	Dozier		3438	FCT Quality Assuranc	Y	6/12/14	659	24599	4	4/1/2020 05	RR-COMPL	Completed
Yes	Dozier		3438	FCT Quality Assuranc	Y	6/12/14	659	24598	6	4/1/2020 05	RR-COMPL	Completed
Yes	Croce		3438	FCT Quality Assuranc	Y	2/1/18	687	24599	4	4/29/2020 0	RR-COMPL	Completed
Yes	Croce		3438	FCT Quality Assuranc	Y	2/1/18	687	24598	6	4/29/2020 0	RR-COMPL	Completed
Yes	Goff		3438	FCT Quality Assuranc	N	4/7/20	-64	24598	6			
Yes	Goff		3438	FCT Quality Assuranc	N	4/7/20	-64	24599	4			
Yes	LaFleur		3438	FCT Quality Assuranc	Y	2/12/19	664	24599	4	4/6/2020 12	RR-COMPL	Completed
Yes	LaFleur		3438	FCT Quality Assuranc	Y	2/12/19	664	24598	6	4/6/2020 12	RR-COMPL	Completed
Yes	Otto		3438	FCT Quality Assuranc	Y	6/12/14	659	24599	4	4/1/2020 05	RR-COMPL	Completed
Yes	Otto		3438	FCT Quality Assuranc	Y	6/12/14	659	24598	6	4/1/2020 05	RR-COMPL	Completed
Yes	Andersson		3438	FCT Quality Assuranc	Y	6/12/14	659	24599	4	4/1/2020 06	RR-COMPL	Completed
Yes	Andersson		3438	FCT Quality Assuranc	Y	6/12/14	659	24598	6	4/1/2020 06	RR-COMPL	Completed
Yes	Neiner		3438	FCT Quality Assuranc	Y	4/7/20	666	24598	6	4/8/2020 08	RR-COMPL	Completed
Yes	Neiner		3438	FCT Quality Assuranc	Y	4/7/20	666	24599	4	4/8/2020 08	RR-COMPL	Completed
Yes	Henzlova		3438	FCT Quality Assuranc	N	2/1/18	-71	24599	4			
Yes	Henzlova		3438	FCT Quality Assuranc	N	2/1/18	-71	24598	6			
Yes	Eftink		3438	FCT Quality Assuranc	Y	2/12/19	659	24599	4	4/1/2020 03	RR-COMPL	Completed
Yes	Eftink		3438	FCT Quality Assuranc	Y	2/12/19	659	24598	6	4/1/2020 02	RR-COMPL	Completed
Yes	Frazer		3438	FCT Quality Assuranc	Y	2/12/19	659	24599	4	4/1/2020 08	RR-COMPL	Completed
Yes	Frazer		3438	FCT Quality Assuranc	Y	2/12/19	659	24598	6	4/1/2020 08	RR-COMPL	Completed
Yes	White		3438	FCT Quality Assuranc	Y	6/12/14	659	24599	4	4/1/2020 07	RR-COMPL	Completed
Yes	White		3438	FCT Quality Assuranc	Y	6/12/14	659	24598	6	4/1/2020 07	RR-COMPL	Completed
Yes	Remillieux		3438	FCT Quality Assuranc	Y	6/12/14	693	24599	4	5/5/2020 02	RR-COMPL	Completed
Yes	Remillieux		3438	FCT Quality Assuranc	Y	6/12/14	693	24598	6	5/5/2020 02	RR-COMPL	Completed
Yes	Telles		3438	FCT Quality Assuranc	Y	6/12/19	659	24599	4	4/1/2020 12	RR-COMPL	Completed
Yes	Telles		3438	FCT Quality Assuranc	Y	6/12/19	659	24598	6	4/1/2020 12	RR-COMPL	Completed
Yes	Kardoulaki		3438	FCT Quality Assuranc	Y	2/1/18	659	24599	4	4/1/2020 09	RR-COMPL	Completed
Yes	Kardoulaki		3438	FCT Quality Assuranc	Y	2/1/18	659	24598	6	4/1/2020 09	RR-COMPL	Completed
Yes	Grote		3438	FCT Quality Assuranc	Y	2/1/18	659	24599	4	4/1/2020 08	RR-COMPL	Completed
Yes	Grote		3438	FCT Quality Assuranc	Y	2/1/18	659	24598	6	4/1/2020 08	RR-COMPL	Completed
Yes	Ulrich		3438	FCT Quality Assuranc	Y	4/7/20	666	24598	6	4/8/2020 01	RR-COMPL	Completed
Yes	Ulrich		3438	FCT Quality Assuranc	Y	4/7/20	666	24599	4	4/8/2020 01	RR-COMPL	Completed
Yes	Widgeon Paisner		3438	FCT Quality Assuranc	Y	2/12/19	659	24599	4	4/1/2020 09	RR-COMPL	Completed
Yes	Widgeon Paisner		3438	FCT Quality Assuranc	Y	2/12/19	659	24598	6	4/1/2020 09	RR-COMPL	Completed
Yes	Shivprasad		3438	FCT Quality Assuranc	Y	2/1/18	659	24599	4	4/1/2020 10	RR-COMPL	Completed
Yes	Shivprasad		3438	FCT Quality Assuranc	Y	2/1/18	659	24598	6	4/1/2020 09	RR-COMPL	Completed
Yes	Abdul-Jabbar		3438	FCT Quality Assuranc	Y	2/12/19	709	24599	4	5/27/2020 1	RR-COMPL	Completed
Yes	Abdul-Jabbar		3438	FCT Quality Assuranc	Y	2/12/19	709	24598	6	5/21/2020 0	RR-COMPL	Completed
Yes	Taylor		3438	FCT Quality Assuranc	Y	4/7/20	666	24599	4	4/8/2020 01	RR-COMPL	Completed
Yes	Taylor		3438	FCT Quality Assuranc	Y	4/7/20	666	24598	6	4/8/2020 11	RR-COMPL	Completed
Yes	Gross		3438	FCT Quality Assuranc	Y	4/7/20	666	24598	6	4/8/2020 03	RR-COMPL	Completed
Yes	Gross		3438	FCT Quality Assuranc	Y	4/7/20	666	24599	4	4/8/2020 03	RR-COMPL	Completed
Yes	Hayne		3438	FCT Quality Assuranc	Y	4/7/20	667	24599	4	4/9/2020 10	RR-COMPL	Completed
Yes	Hayne		3438	FCT Quality Assuranc	Y	4/7/20	667	24598	6	4/9/2020 10	RR-COMPL	Completed
Yes	Coons		3438	FCT Quality Assuranc	Y	4/7/20	666	24598	6	4/8/2020 03	RR-COMPL	Completed
Yes	Coons		3438	FCT Quality Assuranc	Y	4/7/20	666	24599	4	4/9/2020 09	RR-COMPL	Completed
Yes	Steckler		3438	FCT Quality Assuranc	Y	4/7/20	667	24598	6	4/9/2020 03	RR-COMPL	Completed
Yes	Steckler		3438	FCT Quality Assuranc	Y	4/7/20	667	24599	4	4/13/2020 1	RR-COMPL	Completed