TRP #: USQ-FTF-2013-00320 **Rev:** 0 Date 10/23/2013

Technical Review Package
Content Sheet

TRP #: USQ-FTF-2013-00320 **Rev:** 0

Technical Review Package Title

Use-As-Is Disposition of the Non-Conformance Report (NCR) 2013-NCR-15-WFC-0007 "F Tank Farm Grout – Tank 5 and 6". Non-Conformance Tanks 5 and 6 Grout Test Cylinders Deviation from Requirements of C-SPP-F-00055, Rev. 4 "Furnishing and Delivery of Tank Closure Grout"

Functional Classification: GS

Documents included in package

- [X] **DATR**
- [ ] **DATR Summary**
- [X] **USQS**
- [ ] **USQE**
- [X] **CHAPS**
- [ ] **TSQS**
- [ ] **TSQE**
- [ ] **MSBS**
- [ ] **MSBE**

Other Documents Included (List)

USQ-FTF-2013-00320 “Use-As-Is Disposition of Non-Conformance Report (NCR) 2013-NCR-15-WFC-0007”
FTF Applicability Determination for Unreviewed Waste Management Question

---

CLASSIFICATION REVIEW

UNCLASSIFIED - Does Not Contain Unclassified Controlled Nuclear Information

DC/RO: N/A

Date: 11/12/2013

Guidance / Exemption:

UNCLASSIFIED
DOES NOT CONTAIN
UNCLASSIFIED CONTROLLED
NUCLEAR INFORMATION
ADC &
Reviewing
Official (Name and Title)
Date: May 7, 2014

TRP #: USQ-FTF-2013-00320 **Rev:** 0 Date 10/23/2013

Design Authority Technical Review Report

Design Authority Technical Review Report No.	Rev	Date
USQ-FTF-2013-00320	0	10/23/2013

Section 1.0 - Scope of Review

Building	System	Functional Classification
241906		GS

Title

Use-As-Is Disposition of the Non-Conformance Report (NCR) 2013-NCR-15-WFC-0007 "F Tank Farm Grout – Tank 5 and 6". Non-Conformance Tanks 5 and 6 Grout Test Cylinders Deviation from Requirements of C-SPP-F-00055, Rev. 4 "Furnishing and Delivery of Tank Closure Grout"

Type of Modification	Modification Number
NCR USE AS IS	2013-NCR-15-WFC-0007

Brief Description of the Modification Being Reviewed

See Attachment

Listing of Documents Reviewed

2013-NCR-15-WFC-0007 “F-Tank Farm Grout – Tank 5 and 6”
C-SPP-F-00055, Revision 4, "Furnishing and Delivery of Tank Closure Grout"
ASTM C31/C31M, Revision 12 “Standard Practice for Making and Curing Concrete Test Specimens in the Field”
ASTM C511, Revision 9 “Standard Specification for Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes”
ASTM C39/C39M, Revision 12 “Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens”

Section 2.0 - Review Categories

Section 2.1 - Facility Impacts

Documents	Document Description No.	Doc. Change Request/Tracking No.	Completion Code
OTHER AFFECTED DOCUMENTS	UWMQE	TBD	CN

TRP #: USQ-FTF-2013-00320 **Rev:** 0 Date 10/23/2013

Design Authority Technical Review Report (Continued)

Design Authority Technical Review Report No.	Rev	Date
USQ-FTF-2013-00320	0	10/23/2013

Section 2.0 - Review Categories (Continued)

Section 2.2 - Technical Agency Reviews

Are all Technical Agency Reviews identified and complete (i.e. Fire Protection, Safeguards and Security, HPT, Pressure Protecion, etc.)? [X] Yes [ ] No

If any of the questions below are answered "YES," an Environmental Evaluation Checklist is required. Will the proposed activity:

result in a change in emissions, generation rates, or new discharge of hazardous, mixed, radioactive, asbestos, PCB, sanitary/industrial solid or liquid wste, petroleum substance, wastewater, or other pollutants from a facility or process? [ ] Yes [X] No

be located outside of a previously developed area? [ ] Yes [X] No

involve siting, construction, modification, renovation, closure or D&D of facilities or processes? [ ] Yes [X] No

potentially affect environmentally sensitive areas/resources such as flood plain/wetlands, archeologically or historically significant areas, threatened or endangered species and/or their habitat, special sources of water (e.g. aquifer)? [ ] Yes [X] No

involve site characterization, environmental monitoring, or R&D program? [ ] Yes [X] No

involve any type of land disturbance, Underground Storage Tank (UST), or subsurface injection/extraction? [ ] Yes [X] No

involve a Site Evaluation (SE) area, RCRA/CERCLA area/facility, or associated 200 foot Buffer Zone? [ ] Yes [X] No

Section 2.3 - Safety Basis Review

Is the Modification to a Nuclear Facility or will the Modification impact a Nuclear Facility? [X] Yes [ ] No USQS No. USQ-FTF-2013-00320

Section 2.4 - System Acceptablity Review

The PA (Use-As-Is disposition of the Non-Conformance Report (NCR) 2013-NCR-15-WFC-0007 "F Tank Farm Grout - Tank 5 and 6") has found the non-conforming items to be acceptable. The PA does not impact grout formulation, flammability or grout strength. For all cylinders in question, the compressive strength tests concluded that the results exceeded the minimum requirement of 2000 psi as required by procurement specification C-SPP-F-00055, Revision 4, "Furnishing and Delivery of Tank Closure Grout". The PA had no adverse impact to grout strength. Therefore it was deemed acceptable. There was no adverse influences identified and therefore has not impact on the Facility. A USQS has been performed and found the PA to be acceptable. A UWMQE will be performed to ensure there is no negative impact to the DOE approved Performance Assessment, Section 3116 Waste Determination and SRS Composite Analysis.

TRP #: USQ-FTF-2013-00320 **Rev:** 0 Date 10/23/2013

Section 2.5 - System Interface Reviews		
Are all other impacted Design Authority reviews identified and complete (i.e. Electrical, Compressed Air, Domestic Water, etc.)?	[X] **Yes**	[ ] **No**
Is FOSC review required?	[ ] **Yes**	[X] **No**

Section 3.0 - Approval		
Preparer	VOEGTLEN, ROBERT O (PRINT NAME)	11/11/2013 (Date)
Contributing Reviewers	N/A	11/11/2013
	N/A	11/11/2013
	N/A	11/11/2013
	N/A (PRINT NAME)	11/11/2013 (Date)
Approver (Design Authority)	VOEGTLEN, ROBERT O (PRINT NAME)	11/11/2013 (Date)

TRP #: USQ-FTF-2013-00320 **Rev:** 0 Date 10/23/2013

UNREVIEWED SAFETY QUESTION REVIEW (USQS)

USQ No. USQ-FTF-2013-00320 **Rev.** 0 **Functional Classification** GS

Title: Use-As-Is Disposition of the Non-Conformance Report (NCR) 2013-NCR-15-WFC-0007 "F Tank Farm Grout – Tank 5 and 6". Non-Conformance Tanks 5 and 6 Grout Test Cylinders Deviation from Requirements of C-SPP-F-00055, Rev. 4 "Furnishing and Delivery of Tank Closure Grout"

Description of Proposed Activity:

See Attachment

Is the Proposed Activity a change to TSRs or JCO controls? ☐ **Yes** ☒ **No**

Justification:

See Attachment

If "Yes", prior DOE approval through the TSR change process is required (see 11Q, 1.01), no further USQ screening or USQ Evaluation is required. If "No", continue with Screening.

Does the Proposed Activity permanently eliminate a DID/ITS or Degrade its safety Function as explicitly described in the Safety Basis? ☐ **Yes** ☒ **No**

Justification:

See Attachment

If "Yes", prior DOE approval is required, no further USQ screening or evaluation is required. If "No", continue with Screening.

References:

See Attachment

Screening

Does the Proposed Activity involve a:

a. Change to the facility as described in the Safety Basis? ☐ **Yes** ☒ **No**

b. Change to the procedures as described in the Safety Basis? ☐ **Yes** ☒ **No**

c. Test or experiment not described in the Safety Basis? ☐ **Yes** ☒ **No**

Justification:

See Attachment

Screening Conclusion

☒ All answers above are 'No' and a USQ Evaluation is not required.

☐ Screening not performed or any answer above is 'Yes' and a USQ Evaluation is required.

Screen Originator: VOEGTLEN, ROBERT O **Date:** 11/11/2013

Screen Reviewer: CARROLL, PAUL EUGENE **Date:** 11/11/2013

TRP #: USQ-FTF-2013-00320 **Rev:** 0 Date 10/23/2013

Consolidated Hazard Analysis Process (CHAP) Screening

CHAP Screening No.	Rev No.	Functional Classification:	Building/Location	System
USQ-FTF-2013-00320	0	GS	241906	

Title

Use-As-Is Disposition of the Non-Conformance Report (NCR) 2013-NCR-15-WFC-0007 "F Tank Farm Grout – Tank 5 and 6". Non-Conformance Tanks 5 and 6 Grout Test Cylinders Deviation from Requirements of C-SPP-F-00055, Rev. 4 "Furnishing and Delivery of Tank Closure Grout"

Brief Description of the Proposed Activity (include reference to Modification Traveler number or other Engineering change document as applicable)

See Attachment

Part A -- CHAP Determination

1. Is this a new facility, new process, process change, or physical modification to an existing facility that could potentially introduce new hazards or increase the consequence or frequency of a current hazard, thereby impacting safety basis controls?

☐ **Yes** **If Yes, the CHA process is required.**

☒ **No** **If NO, CHA is not required.**

Provide justification for conclusion (required).

Justification (consult with Nuclear Safety as needed to justify conclusion):

See Attachment

Part B -- DHAP Determination

2. Is this a new facility, new process, process change, or physical modification to an existing facility that could potentially introduce new hazards, increase the consequence or frequency of a current hazard, or result in impacting the controls associated with a current hazard **that may cause a worker fatality or serious injury, CW or FW Radiation exposure > 5 rem, CW or FW Toxic Material Exposure > PAC-2, loss of equipment or facilities > $2,000,000, or loss of production > 6 months?**

☐ **Yes** **If Yes, the DHA process is required.**

☒ **No** **If No, DHA is NOT required**

Provide justification for conclusion (required).

Justification (consult with Nuclear Safety or Design Engineering as needed to justify conclusion):

See Attachment

TRP #: USQ-FTF-2013-00320 **Rev:** 0 Date 10/23/2013

Review & Approval signatures:
- Preparer and Design Authority Engineer can be the same.
- Safety Basis Regulatory Authority. If the Part A screening is positive, obtain Safety Basis Regulatory Authority approval.
- If the Part A screening is negative, Design Authority Manager may substitute for Safety Basis Regulatory Authority.

*Number per Smartplant Foundation (SPF). If SPF not used, Numbers should be of the form: X-CHA-Y-seq # where X is the discipline code and Y is the facility designator (e.g., S-CHA-H-0001).

**This form is intended to address unmitigated process hazards for any system/unit operation, regardless of functional classification.

Reviewer Preparer VOEGTLEN, ROBERT O	**Date** 11/11/2013
Design Authority Engineer VOEGTLEN, ROBERT O	**Date** 11/11/2013
Safety Basis Regulatory Authority or Designee ARTHUR, GREGORY CLARK	**Date** 11/12/2013

USQ-FTF-2013-00320 “Use-As-Is Disposition of Non-Conformance Report (NCR) 2013-NCR-15-WFC-0007”

Title:

Use-As-Is Disposition of the Non-Conformance Report (NCR) 2013-NCR-15-WFC-0007 "F Tank Farm Grout – Tank 5 and 6". Non-Conformance Tanks 5 and 6 Grout Test Cylinders Deviation from Requirements of C-SPP-F-00055, Rev. 4 "Furnishing and Delivery of Tank Closure Grout"

Proposed Activity:

The Proposed Activity (PA) is the Use-As-Is disposition of the Non-Conformance Report (NCR) 2013-NCR-15-WFC-0007 "F Tank Farm Grout – Tanks 5 and 6".

Background:

There were two deviations from the requirements of the procurement specification C-SPP-F-00055, Revision 4, "Furnishing and Delivery of Tank Closure Grout".

First, the C-SPP-F-00055, Revision 4, Attachment 5.3 invokes the test method evaluation specimen curing per ASTM C31/C31M, Revision 12 “Standard Practice for Making and Curing Concrete Test Specimens in the Field”. Per paragraph 10.1.3.1 of ASTM C31/C31M, cure specimens to be stored in a temperature range of 73.5 +/- 3.5 °F. Furthermore this standard invokes ASTM Standard C511, Revision 9 “Standard Specification for Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes”. Per C511 paragraph 6.1 the storage of the cure specimens shall be maintained in an atmosphere of 95% or greater relative humidity. It must be demonstrated that the required temperatures and humidity are within the required tolerances. Due to equipment failure, the temperature and humidity were not recorded from 9/17/2013 to 10/18/2013 and therefore it could not be demonstrated that the temperatures and humidity are within the required tolerances. There were twenty-six (26) cylinder specimens which did not comply with this requirement.

Second, the C-SPP-F-00055, Revision 4, Attachment 5.3 invokes the test method evaluation for compressive strength of ASTM C39/C39M, Revision 12 “Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens”. Paragraph 7.3 of ASTM C39/C39M invokes a test time tolerance for the 7-day and 28-day test cylinders. There were seventeen (17) cylinder specimens which did not comply with the required test frequency and tolerance.

A Non-Conformance Report (NCR number 2013-NCR-15-WFC-0007) was issued to document the non-compliance. The NCR was dispositioned for Use-As-Is.

The basis for the Use-As-Is disposition is as follows:

a. ASTM C31/C31M was developed to ensure that the test specimens are handled in such a way that accurate strength data can be obtained when tested. While the temperature and humidity conditions in the room could not be verified for these specimens, the cylinder break test results verified the compressive strengths exceeded the minimum requirement of 2000 psi as required

by procurement specification C-SPP-F-00055, Revision 4, "Furnishing and Delivery of Tank Closure Grout". Therefore it was deemed acceptable.

b. ASTM C39/C39Mrequires the 7 day and 28 day cylinder test breaks to ensure timely required concrete (grout) strength attainment. While the lab was unable to perform these within the permissible tolerances, the compressive strength test results showed the results exceeded the minimum requirement of 2000 psi as required by procurement specification C-SPP-F-00055, Revision 4, "Furnishing and Delivery of Tank Closure Grout". Therefore it was deemed acceptable.

Compliance with the procurement specification C-SPP-F-00055, Revision 4 inherently bounds the inputs, assumptions, results, and conclusions of the DOE approved Performance Assessment, Section 3116 Waste Determination (WD) as well as any Special Analyses (SA). Therefore, non-compliance with the procurement specification C-SPP-F-00055, Revision 4 will require evaluation. An FTF Applicability Determination for Unreviewed Waste Management Question (UWMQ) was performed and forwarded to Closure & Waste Disposal Authority (C&WDA) for disposition (a copy is included in this TRP).

There are no interim configuration issues associated with the PA. The Functional Classification of the PA is GS.

References (USQ):

WSRC-IM-94-10
Section: 3.0, Rev. 287
Date: 9/26/13

LWD/WS PROJECTS SAFETY BASIS MANUAL
Concentration, Storage, and Transfer Facilities (CSTF)

1.0 SAFETY BASIS DOCUMENTS:

WSRC-SA-2002-00007, Rev. 14, July 2012, “Concentration, Storage, and Transfer Facilities Documented Safety Analysis.”

S-TSR-G-00001, Rev. 40, April 2013, “Concentration, Storage, and Transfer Facilities Technical Safety Requirements.”

Evaluation of the Safety of the Situation (ESS): Management of Mercury Hazards in Tank Farm Evaporators and Satellite Accumulation Areas (SAA) (PISA PI-2013-0002), March 27, 2013 (copy contained in WSRC-IM-99-00009)

U-ESR-F-00055, Rev. 0, April 2013, “Repair Plan for F-Area Pump Tank 1 / F-Area Pump Pit 1” (copy contained in WSRC-IM-99-00009)

SB Document Change Request Packages:

Note: These are SB Document Change Request Packages that have been approved by the FOSC, implemented, but have not been incorporated into the affected document.

Copies of the CRFs are contained in WSRC-IM-99-00009

HLW-CRF-12008, Rev. 2 (8/20/13) “Revised Nuclear Criticality Barriers for ARP/MCU per NCSASR, Rev. 7” (Change to DSA, Chapter 6)

HLW-CRF-12009, Rev. 0 (9/26/12) “RKI Eagle 2 Portable LFL Monitor Reference Update” (Change to DSA, Chapters 3 and 5)

HLW-CRF-12013, Rev. 0 (12/18/12) “F Tank Farm Control Room Consolidation” (Change to DSA, Chapters 2, 3, 4, 5, 11, 13, and 18)

HLW-CRF-12011, Rev. 0 (10/15/12) “HPT-3/4 Recirculation Jet and Tank 42 Steam Sparger PISA Resolution” (Change to DSA, Chapters 2 and 3)

HLW-CRF-12012, Rev. 0 (12/03/12) “Type I/II/IV Waste Tank Grouting” (Change to DSA, Chapters ES, 1, 2, 3, 4 and 5)

HLW-CRF-13002, Rev. 1 (8/22/13) “Next Generation Solvent Deployment at MCU” (Change to DSA, Chapters ES, 2, 3, 5, and 6)

HLW-CRF-13004, Rev. 0 (5/1/13) “HDB-2 Inlet HEPA” (Change to DSA, Chapters 2 and 4)

2.0 CONFIGURATION MANAGED DOCUMENTS:

Copies of the Configuration Managed Documents are contained in WSRC-IM-99-00009

WSRC-SA-2002-00007, Rev. 15, June 2013, “Concentration, Storage, and Transfer Facilities Documented Safety Analysis.”

S-TSR-G-00001, Rev. 2013-A, TBD, “Concentration, Storage, and Transfer Facilities Technical Safety Requirements.”

S-TSR-G-00001, Rev. 2013-B, TBD, “Concentration, Storage, and Transfer Facilities Technical Safety Requirements.”

SB Document Change Request Packages:

Note: These are SB Document Change Request Packages that have been approved by the FOSC but have not been implemented or incorporated into the affected document(s).

HLW-CRF-13005, Rev. 2 (9/19/13) “Revised Transfer Line Volume for SEHT transfers to DWPF and ppm to mg/L for Isopar L carryover” (Change to DSA, Chapter 5)

HLW-CRF-13007, Rev. 0 (9/25/13) “MCU Solvent Hold Tank Sampler Installation” (Change to DSA, Chapters 3 and 5)

3.0 CATEGORICAL EXCLUSIONS:
None

4.0 TSR INTERPRETATIONS:
None

DATR List of Documents Reviewed:

2013-NCR-15-WFC-0007 “F-Tank Farm Grout – Tank 5 and 6”
C-SPP-F-00055, Revision 4, "Furnishing and Delivery of Tank Closure Grout"
ASTM C31/C31M, Revision 12 “Standard Practice for Making and Curing Concrete Test Specimens in the Field”
ASTM C511, Revision 9 “Standard Specification for Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes”
ASTM C39/C39M, Revision 12 “Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens”

DATR – System Acceptability Review

The PA (Use-As-Is disposition of the Non-Conformance Report (NCR) 2013-NCR-15-WFC-0007 "F Tank Farm Grout - Tank 5 and 6") has found the non-conforming items to be acceptable. The PA does not impact grout formulation, flammability or grout strength. For all cylinders in question, the compressive strength tests concluded that the results exceeded the minimum requirement of 2000 psi as required by procurement specification C-SPP-F-00055, Revision 4, "Furnishing and Delivery of Tank Closure Grout". The PA had no adverse impact to grout strength. Therefore it was deemed acceptable. There was no adverse influences identified and therefore has not impact on the Facility. A USQS has been performed and found the PA to be acceptable. A UWMQE will be performed to ensure there is no negative impact to the DOE approved Performance Assessment, Section 3116 Waste Determination and SRS Composite Analysis.

Screening Questions:

Is the Proposed Activity a change to TSRs or JCO controls?

Justification:

Reviewed S-TSR-G-00001 (Rev. 40 and pending 2013-A and B). Specifically, Sections 1.6 “Modes”, 5.8.2.27 “Flammability Control Program” and associated bases applied to the PA. The TSR interacts with waste tank grouting process by requiring that an active process area waste tank to be grouted must be in the required TSR mode. For TSR Rev 40, that mode will be "Closure". There are no TSR requirements for grout quality during the grouting process. This PA does not add or cause a change to any process or SSCs as described in the TSRs. Therefore, there are no changes to the TSR controls. There are no JCO controls associated with CSTF.

Does the Proposed Activity permanently eliminate a DID/ITS or Degrade its safety Function as explicitly described on the Safety Basis?

Justification:

No, the PA is the Use-As-Is disposition of the Non-Conformance Report (NCR) 2013-NCR-15-WFC-0007 "F Tank Farm Grout - Tank 5 and 6" and has found the non-conforming items to be acceptable. The PA and associated activities do not alter, adversely impact and/or degrade a DID/ITS as explicitly described in the Safety Basis (SB) as stated in WSRC-SA-2002-00007, Revision 14, Section 3.3.3.3.2 and Table 3.3-22 CSTF Defense-in-Depth / Important-to-Safety Hazard Controls, therefore, this PA does not eliminate or degrade a DID/ITS SSC or its function.

Does the Proposed Activity involve a:

a. *Change to the facility as described in the Safety Basis?*
b. *Change to the procedures as described in the Safety Basis?*
c. *Test or experiment not described in the Safety Basis*?

Justification:

a. No, the PA does not change the facility as described in the Safety Basis (SB). WSRC-SA-2002-00007, Rev. 14 (including pending Rev. 15), and HLW-CRF-12012, Rev. 0, were reviewed. The PA has no impact to flammability or to tank structure. WSRC-SA-2002-00007, Rev. 14 (including pending Rev. 15), and HLW-CRF-12012, Rev. 0, Sections were identified as related to the PA:

2.5.7 “Waste Tank/Equipment Grouting

The Section 2.5.7 describes the grouting of tanks. The PA is consistent with SB.

The PA does not add additional MAR, change the consequences or frequency of a previously analyzed accident or add a new accident. The tank closure grout quality is not credited in the SB.

Therefore, based on this review it was concluded the PA is not a change to the facility as it is described in the SB.

b. No, the PA (Use-As-Is disposition of the Non-Conformance Report (NCR) 2013-NCR-15-WFC-0007 "F Tank Farm Grout - Tank 5 and 6") is in compliance with the requirements of the 1Q “Quality Assurance Manual” and is a routine and normal function by the Facility. The PA is not a procedure change.

c. No, the PA (Use-As-Is disposition of the Non-Conformance Report (NCR) 2013-NCR-15-WFC-0007 "F Tank Farm Grout - Tank 5 and 6") does not involve any test or experiments in its generation or execution. Therefore, the PA does not involve a test or experiment not described in the SB.

Consolidated Hazard Analysis Process (CHAP) Screening

1. *Is this a new facility, new process, process change, or physical modification to an existing facility that could potentially introduce new hazards or increase the consequence or frequency of a current hazard, thereby impacting safety basis controls*?

Justification:

The PA is not a new facility, new process, process change or physical modification. The PA is the Use-As-Is disposition to an NCR. The disposition of the NCR concluded the non-confirming items are acceptable. The "Waste Tank Grouting Consolidated Hazard Analysis" S-CHA-F-00010, Rev. 2 (including U-DCF-F-00171, Rev. 0 “Modify Waste Tank Grouting CHA, S-CHA-F-00010, for Clarification of NFPA 69 Compliance”) was performed and evaluated the tank grouting process. The PA is within the scope evaluated by S-CHA-F-00010, Revision 2. This PA does not impact or invalidate any conclusions of this CHA.

2. *Is this a new facility, new process, process change, or physical modification to an existing facility that could potentially introduce new hazards, increase the consequences or frequency of a current hazard, or result in impacting the controls, associated with a current hazard that may cause a worker fatality or serious injury, CW or FW Radiation exposure > 5 rem, CW or FW Toxic Material Exposure > PAC-2, loss of equipment or facility > $2,000,000, or loss of production > 6 months*?

Justification:

The PA is not a new facility, new process, process change or physical modification. The PA is the Use-As-Is disposition to an NCR. The disposition of the NCR concluded the non-confirming items are acceptable. As a result of implementation of the PA, radiation exposure and toxic material exposure will not be impacted. The PA will not result in loss of equipment (>$2,000K), facilities (>$2,000K), or production (>

6 months). The PA is within the scope evaluated by S-CHA-F-00010, Revision 2. Therefore, the DHA process is not required.

FTF APPLICABILITY DETERMINATION FOR UNREVIEWED WASTE MANAGEMENT QUESTION

RV
10/31/13

DATR Number: USQ-FTF-2013-00320

Title: Indet. Qty of Grout per Req. of C-SPP-F-00055, Rev. 4, Compressive. Samp. Test Age Out of Limits and Failed Moisture & Temp. Recorder

SEE PAGE 2 - NON-CONFORMANCE REPORT (NCR) NO. 2013-NCR-15-WFC-0007 COVER PAGE FOR MORE DETAILS.

Fill out this checklist for proposed activities defined as applicable to Tank Closure Activities. If the answer is YES to any of the following questions, the Closure & Waste Disposal Authority (C&WDA) group shall perform an Unreviewed Waste Management Question (UWMQ) Evaluation.

FTF UWMQ Applicability Determination

Does the proposed activity:		
(1) Change the waste tank or waste tank annulus structure?	○ Yes	◉ No
(2) Impact the waste tank concrete vault integrity (waste tank top, side walls and basemat)?	○ Yes	◉ No
(3) Change the waste tank stabilization fill grout formulation? (NEW DATA)	◉ Yes	○ No
(4) Introduce new material (liquid or solid) into the Tank/Annulus after residual sampling has begun?	○ Yes	◉ No
(5) Change the final equipment configuration within the Waste Tank/Annulus?	○ Yes	◉ No

Note: use shift key to deselect radio buttons.

J. Voelker R. Voelker 10/31/13

PDF completed form and attach to DATR in SPF.

CMP 10-1.3-2
(6-21-07)
Page 1

ORIGINAL Rev 1 10/31/13

Nonconformance Report

COPY

☒ Unclassified
☐ Other, Refer To WSRC 7Q Security Manual

3d. Design Classification: GS

2. Page 1 of

1. Originator	Ph.	Date	11. NCR NO.	3a. Project Name or No.	3b. Work Package No.	3c. Responsible CESM
Andy Redwood	8-1447	10/23/13	2013 WFC - 0007 -NCR-15-	Tank 5 and Tank 6 Grout	1199252-30 & 1199254-18	Dave Hooks

4. Drawing / Spec. / Item No.	Rev.	5. Area / Location	6. Organization / Contractor / Supplier
C-SPP-F-00055	4	F Tank Farm	SRR Construction

8. Trend Codes:	9a. Validated By:	Date
Commodity 14 Problem 11 Probable Cause 16 Recent Furlough/Equip Fail	M.D. Wilmoth	10/23/13

9b. Affects Operability	9c. DOE Reportable	9d. Site Tracking Analysis Report	10. Hold Tags Issued
☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No STAR NO.	0

7. Nonconforming Condition	12. Field Engineering Disposition / Recommendation	13a. Design Engineering Disposition	22. Results

7a. Specification C-SPP-F-00055 requires that concrete cylinders be cured in accordance with ASTM C31 and ASTM C511. Paragraph 10.1.3.1 of ASTM C31 requires that cylinders be cured at 73.5 degrees Fahrenheit +/- 3.5 degrees, and paragraph 6.1 of ASTM C511 requires a moist room with relative humidity of 95%. Contrary to this, due to equipment failure, the temperature and humidity in the curing room could not be verified from 9/17/13 thru 10/8/13 for the following lab numbers: 130038 thru 130063, 130067 thru 130072, and 130074 thru 130090.

7b. Specification C-SPP-F-00055 requires that concrete cylinders be compressive strength tested per ASTM C39. Paragraph 7.3 of ASTM C39 requires that 7-day and 28-day test cylinders be tested within 6 hours and 20 hours, respectively. Contrary to this, due to the recent furlough, the the following lab numbers were not tested within the 6 hour timeframe for 7-day tests: 130088, 130089, and 130090. The following lab numbers were not tested within the 20 hour timeframe for 28-day tests: 130062, 130063, 130067 thru 130072, and 130076 thru 130081.

Andrew R. Redwood Andrew R. Redwood 10/23/13

14. Disposition Concurrence				13b. USQ / MSB Required: ☐ Yes ☐ No	If Required, Document No.
Rework ☐	Reject ☐	Repair ☐	Use As is ☐	16. Design Change Required. ☐ Yes ☐ No	For Information Only
15. Design	Date			17. Drawing No.	Rev.
20. Construction Engineering	Date			18. Spec. No.	Rev.
21. Quality Control	Date			19. Design Change No.	23. Inspection / Verification Record(s), Work Package(s) or N/A
					No. of Hold Tags removed
					QCE / CDE / Date

See Next Page

FILE APPLICABILITY DETERMINATION FOR USQ-FTF-2013-00320 DATE No.