

Technical Review Package Content Sheet

TRP #: USQ-HTF-2015-00635

Rev: 0

Technical Review Package Title

Use-As-Is Disposition of Non-Conformance Report (NCR) 2015-NCR-15-WHC-0008

Functional Classification: GS

Documents included in package

- ☒ DATR
- ☐ DATR Summary
- ☒ USQS
- ☐ USQE
- ☒ CHAPS
- ☐ TSQS
- ☐ TSQE
- ☐ MSBS
- ☐ MSBE

Other Documents Included (List)

USQ-HTF-2015-00635 Attachment
USQ-HTF-2015-00635 UWMQ Determination

CLASSIFICATION REVIEW

DC/RO: N/A

Date: 9/29/2015

Guidance / Exemption:

Design Authority Technical Review Report

Design Authority Technical Review Report No. USQ-HTF-2015-00635		Rev 0	Date 9/17/2015
Section 1.0 - Scope of Review			
Building 241916	System		Functional Classification GS
Title Use-As-Is Disposition of Non-Conformance Report (NCR) 2015-NCR-15-WHC-0008			
Type of Modification PLANT MODIFICATION		Modification Number 2015-NCR-15-WHC-0008	
Brief Description of the Modification Being Reviewed See Attachment			
Listing of Documents Reviewed See Attachment			
Section 2.0 - Review Categories			
Section 2.1 - Facility Impacts			
Documents	Document Description No.	Doc. Change Request/Tracking No.	Completion Code

Design Authority Technical Review Report (Continued)

Design Authority Technical Review Report No. USQ-HTF-2015-00635	Rev 0	Date 9/17/2015
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 Protection, etc.)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 waste, petroleum substance, wastewater, or other pollutants from a facility or process? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No be located outside of a previously developed area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No involve siting, construction, modification, renovation, closure or D&D of facilities or processes? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No involve site characterization, environmental monitoring, or R&D program? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No involve any type of land disturbance, Underground Storage Tank (UST), or subsurface injection/extraction? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No involve a Site Evaluation (SE) area, RCRA/CERCLA area/facility, or associated 200 foot Buffer Zone? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Section 2.3 - Safety Basis Review		
Is the Modification to a Nuclear Facility or will the Modification impact a Nuclear Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <div>USQS No. <u>USQ-HTF-2015-00635</u></div>		
Section 2.4 - System Acceptability Review		
See Attachment		
Section 2.5 - System Interface Reviews		
Are all other impacted Design Authority reviews identified and complete (i.e. Electrical, Compressed Air, Domestic Water, etc.)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Is FOSC review required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Section 3.0 - Approval		
Preparer	<u>VOEGTLEN, ROBERT O</u> (PRINT NAME)	<u>9/23/2015</u> (Date)
Contributing Reviewers	<u>N/A</u> <u>N/A</u> <u>N/A</u> <u>N/A</u> (PRINT NAME)	<u>9/23/2015</u> <u>9/23/2015</u> <u>9/23/2015</u> <u>9/23/2015</u> (Date)
Approver (Design Authority)	<u>VOEGTLEN, ROBERT O</u> (PRINT NAME)	<u>9/23/2015</u> (Date)

UNREVIEWED SAFETY QUESTION REVIEW (USQS)

USQ No. USQ-HTF-2015-00635 **Rev.** 0 **Functional Classification** GS
Title: Use-As-Is Disposition of Non-Conformance Report (NCR) 2015-NCR-15-WHC-0008

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:

9/23/2015

Screen Reviewer:

CHANDLER, TIMOTHY LEON

Date:

9/23/2015

Consolidated Hazard Analysis Process (CHAP) Screening

CHAP Screening No. USQ-HTF-2015-00635	Rev No. 0	Functional Classification: GS	Building/Location 241916	System
Title Use-As-Is Disposition of Non-Conformance Report (NCR) 2015-NCR-15-WHC-0008				
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?			<input type="checkbox"/> Yes If Yes, the CHA process is required. <input checked="" type="checkbox"/> 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?			<input type="checkbox"/> Yes If Yes, the DHA process is required. <input checked="" type="checkbox"/> 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				

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 9/23/2015
Design Authority Engineer VOEGTLEN, ROBERT O	Date 9/23/2015
Safety Basis Regulatory Authority or Designee ARTHUR, GREGORY CLARK	Date 9/29/2015

USQ-HTF-2015-00635 "Use-As-Is Disposition of Non-Conformance Report (NCR) 2015-NCR-15-WHC-0008"

Title:

Use-As-Is Disposition of the Non-Conformance Report (NCR) 2015-NCR-15-WHC-0008 "H Tank Farm Grout – Tank 16". Non-Conformance Tank 16 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) 2015-NCR-15-WHC-0008 "H Tank Farm Grout – Tank 16".

Background:

During tank grouting operations, grout samples (specimens) are collected and tested per the requirements of C-SPP-F-00055, Revision 4, "Furnishing and Delivery of Tank Closure Grout". The specification invokes the specimen curing requirements of "American Society for Testing & Materials" (ASTM) C31 / C31M - 15, "Standard Practice for Making and Curing Concrete Test Specimen's in the Field". Per ASTM C31 / C31M paragraph 10.1.3.1 "Cylinders" requires the cure specimens to be stored at all times at a temperature of 73.5 ± 3.5 °F or between 70.0 and 77.0 °F.

Contrary to this, due to equipment failure, the temperature of the curing room rose to 78.5 °F for 2 hours on June 17, 2015 for twelve batch samples.

A Non-Conformance Report (NCR number 2015-NCR-15-WHC-0008) was issued to document the non-compliance. The NCR was dispositioned for Use-As-Is.

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

ASTM C31/C31M requirements are to ensure that the test specimens (cylinders) are handled carefully as not to damage cylinders and to obtain accurate strength data when tested. While the temperature requirements in the curing room deviated by only 1.5 °F from the specified temperature (including tolerance), the cylinder break test results verified that the compressive strengths met or exceeded the minimum requirement of 2,000 psi as required by C-SPP-F-00055, Revision 4, "Furnishing and Delivery of Tank Closure Grout". A higher specimen curing room temperature could only negatively impact the compressive test strength results (i.e. lower the compressive strength). However, the test data for the specimens met or exceeded the requirement. Therefore, the "Use-As-Is" disposition of the NCR is acceptable.

USQ-HTF-2015-00635 "Use-As-Is Disposition of Non-Conformance Report (NCR) 2015-NCR-15-WHC-0008"

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. 332 – LWD/WS PROJECTS SAFETY BASIS MANUAL

SAFETY BASIS DOCUMENTS:

WSRC-SA-2002-00007, Rev. 16, June 2014, "Concentration, Storage, and Transfer Facilities Documented Safety Analysis."

S-TSR-G-00001, Rev. 47, May 2015, "Concentration, Storage, and Transfer Facilities Technical Safety Requirements."

SB Document Change Request Packages:

HLW-CRF-14007, Rev. 1 (8/13/14) "299-H WCT Flammability, Saltstone Facility Interface"
(Change to DSA, Chapters 3 and 5)

HLW-CRF-14008, Rev. 0 (9/24/2014) "Tank 15 Rewet" (Change to DSA, Chapters 2, 3, 4, and 5)

HLW-CRF-14009, Rev. 0 (2/5/2015) "2F Evaporator Ventilation Temp Mod Removal"
(Change to DSA, Chapter 2)

HLW-CRF-14011, Rev. 1 (2/11/15) "Installation of New 254-13H Diesel Generator" (Change to DSA, Chapters 1, 4, and 5)

HLW-CRF-15002, Rev. 0 (2/11/15) "Recognizing Boundaries for Control Room Operators" (Change to DSA, Chapter 5)

HLW-CRF-15001, Rev. 0 (2/27/15) "Addition of CHA for Commercial Submersible Mixer Pumps (CSMPs)"
(Change to DSA, Chapters 2, 3, and 5)

HLW-CRF-15004, Rev. 1 (4/28/15) "MCU Caustic Wash Once-Through System Modifications" (Change to DSA, Chapters 2 and 6)

HLW-CRF-15003, Rev. 0 (4/1/15) "No-MST Operations" (Change to DSA, Chapters ES, 2, 3, 5, and 6)

HLW-CRF-15007, Rev. 0 (8/13/15) "242-16F/242-16H Automatic Isolation Valve Modification" (Change to DSA, Chapter 2)

CONFIGURATION MANAGED DOCUMENTS:

USQ-HTF-2015-00635 "Use-As-Is Disposition of Non-Conformance Report (NCR) 2015-NCR-15-WHC-0008"

S-TSR-G-00001, Rev. 2015-B, TBD "Concentration, Storage, and Transfer Facilities Technical Safety Requirements."

WSRC-SA-2002-00007, Rev. 17, June 2015, "Concentration, Storage, and Transfer Facilities Documented Safety Analysis."

S-TSR-G-00001, Rev. 2015-C, TBD "Concentration, Storage, and Transfer Facilities Technical Safety Requirements."

SB Document Change Request Packages:

HLW-CRF-15005, Rev. 0 (5/26/15) "242-16H (2H) Evaporator Chemical Cleaning Process Improvement" (Change to DSA, Chapters 2, 3, 4, 5, and 13)

HLW-CRF-15007, Rev. 1 (8/13/15) "242-16F/242-16H Automatic Isolation Valve Modification" (Change to DSA, Chapter 2)

Reviewed WSRC-SA-2002-00007, Rev. 16 (including pending revision 17 and related CRFs) Sections E.2.2.1, E.3, 2.3.3, 2.4.1, 2.5.7, 2.5.7.1, 3.3.3.3.2, 3.4.1.5.2, Tables 3.3-10 and 3.3-22, 4.3.10, Tables 4.3-1, 4.3-2, 4.4-1 and 4.4-2, 5.4, 5.4.3, 16.3.4, and 17.4.1. No impacts were noted to these sections.

The sections (5.5.4.2.8 and 5.5.4.2.43) of Chapter 5 that align with the TSR sections reviewed have been reviewed with no impacts noted.

S-CHA-F-00010 Revision 2, "Waste Tank Grouting"

U-DCF-F-00171 Revision 0, "Modify Waste Tank Grouting CHA, S-CHA-F-00010, for Clarification of NFPA 69 Compliance"

DATR List of Documents Reviewed:

2015-NCR-15-WHC-0008 (08/20/2015) "H Tank Farm Grout – Tank 16"

C-SPP-F-00055, Revision 4, "Furnishing and Delivery of Tank Closure Grout"

ASTM C31/C31M, Revision 15 "Standard Practice for Making and Curing Concrete Test Specimens in the Field"

N-ESR-G-00001, Revision 745, "High Level Waste Emergency Response Data and Waste Tank Data"

SRR-LWE-2014-00013, Rev. 1, "Tank 16H Grout Strategy"

LWO-H-2014-0026, Rev. 1, "Tank 16 Electrical and Ventilation Isolation and Closure" Environmental Evaluation Checklist (EEC)

DATR – System Acceptability Review

The PA (Use-As-Is disposition of the Non-Conformance Report (NCR) 2015-NCR-15-WHC-0008 "H Tank Farm Grout – Tank 16") has found the non-conforming items to be acceptable. The PA does not impact

USQ-HTF-2015-00635 "Use-As-Is Disposition of Non-Conformance Report (NCR) 2015-NCR-15-WHC-0008"

grout formulation, flammability or grout strength. For all cylinders in question, the compressive strength tests concluded that the results met or 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.

The PA aligns with SRR-LWE-2014-00013, "Tank 16H Grout Strategy" and Environmental Evaluation Checklist (EEC) LWO-H-2014-0026, "Tank 16 Electrical and Ventilation Isolation and Closure"

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). Tank 16 is identified in N-ESR-G-00001, "High Level Waste Emergency Response Data and Waste Tank Data" Table G-6 as a waste tank requiring a determination review for an Unreviewed Waste Management Question (UWMQ). A UWMQ Determination was performed and no evaluation is required (a copy is included in this TRP). After consultation with C&WDA, it was determined that the PA did not "change the waste tank stabilization fill grout formulation" since the PA involved test specimens only and their resulting compressive strength results were acceptable. Unreviewed Waste Management Question Evaluation (UWMQE) TRC-FTF-2013-00320 previously evaluated a similar event; comparable to the PA.

Screening Questions:

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

Justification:

S-TSR-G-00001 (Revision 47 and pending Revisions) was reviewed: Section 1.6 (Modes - CLOSURE) and Administrative Controls 5.8.2.8 (Configuration Management Program) and 5.8.2.11 (Quality Assurance Program) are applicable. Tank 16 is a non-process area and an inactive location that meets the requirements of being a CLOSURE Tank. As outlined in Sections 5.8.2.8 and 5.8.2.11, the PA (A.) ensures that changes to the technical baseline are properly maintained and (B.) supports independent assessment, verification and inspection to ensure compliance with the QA Program. There are no LCOs applicable to Tank 16. The PA complies with the Administrative Controls stated above and does not change the TSRs. 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 JCOs associated with CSTF.

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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) 2015-NCR-15-WHC-0008 "H Tank Farm Grout – Tank 16". 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 16, 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. 16 (including pending Rev. 17) was reviewed. The PA has no impact to flammability or to tank structure.

16.3.4 "Waste Tank and Ancillary Equipment Grouting

Section 16.3.4 explicitly states that filling waste tanks with reducing grout to stabilize residual material is the most preferred environmental alternative and the least hazardous for closure of waste tanks and associated equipment. The PA is consistent with SB as it ensures the use of reducing grout to accomplish the task of stabilizing residual material.

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, the PA is not a change to the facility as it is described or implied in the SB.

b. No, the PA (Use-As-Is disposition of the Non-Conformance Report (NCR) 2015-NCR-15-WHC-0008 "H Tank Farm Grout – Tank 16") is in compliance with the facility's Quality Assurance (DSA Section 14.0) requirements as it complies with the requirements of Manual 1Q "Quality Assurance Manual" and is a routine and normal function by the Facility. As described in DSA Section 14.6.4 (Inspection and Testing for Acceptance), "Procedure Manual 1Q defines the SRS requirements for inspection, inspection status, and control of nonconforming items. The CSTF follows Procedure Manual 1Q to implement all activities related to QA inspections." Because the PA complies with procedures as outlined in the facility's SB, it does not change procedures as described or implied in the SB.

USQ-HTF-2015-00635 "Use-As-Is Disposition of Non-Conformance Report (NCR) 2015-NCR-15-WHC-0008"

c. No, the PA (Use-As-Is disposition of the Non-Conformance Report (NCR) 2015-NCR-15-WHC-0008 "H Tank Farm Grout – Tank 16") does not involve any test or experiments in its generation or execution. 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). Additionally, the PA eliminates the added cost that would have been associated with re-procuring the subject material. The PA is within the scope evaluated by S-CHA-F-00010, Revision 2. Therefore, the DHA process is not required.

**FTF/HTF APPLICABILITY DETERMINATION FOR UNREVIEWED
WASTE MANAGEMENT QUESTION**

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DATR Number: USQ-HTF-2015-00635;0

Date: September 21, 2015

Title: Use-As-Is Disposition of the 2015-NCR-15-WHC-000H "H Tank Farm Grout – Tank 16"

Proposed Activity Description:

During tank grouting operations, grout samples (specimens) are collected and tested per the requirements of C-SPP-F-00055, Revision 4, "Furnishing and Delivery of Tank Closure Grout". The specification invokes the specimen curing requirements of "American Society for Testing & Materials" (ASTM) C31 / C31M - 15, "Standard Practice for Making and Curing Concrete Test Specimens in the Field". Per ASTM C31 / C31M, paragraph 10.1.3.1 "Cylinders", requires the cure specimens to be stored at all times at a temperature of 73.5 ± 3.5 °F or between 70.0 and 77.0 °F. Contrary to this, due to equipment failure, the temperature of the curing room rose to 78.5 °F for 2 hours on June 17, 2015 for twelve batch samples. While the temperature requirements in the curing room deviated by only 1.5 °F from the specified temperature (including tolerance), the cylinder break test results verified that the compressive strengths met or exceeded the minimum requirement of 2,000 psi as required by C-SPP-F-00055, Revision 4, "Furnishing and Delivery of Tank Closure Grout". After consultation with C&WDA, it was determined that the PA did not "Change the waste tank stabilization fill grout formulation" since the PA involved test specimens only and their resulting compressive strength results were acceptable. Unreviewed Waste Management Question Evaluation (UWMQE) TRC-FTF-2013-00320 previously evaluated a similar event comparable to the PA.

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 Waste Disposal Authority (WDA) group shall perform an Unreviewed Waste Management Question (UWMQ) Evaluation.

FTF/HTF UWMQ Applicability Determination

Does the proposed activity:		
(1) Change the waste tank or waste tank annulus structure?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
(2) Impact the waste tank concrete vault integrity (waste tank top, side walls and basemat)?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
(3) Change the waste tank stabilization fill grout formulation?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
(4) Introduce new material (liquid or solid) into the tank/annulus after residual sampling has begun?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
(5) Change the final equipment configuration within the waste tank/annulus?	<input type="radio"/> Yes	<input checked="" type="radio"/> No

Note: use shift key to deselect radio buttons.

PDF completed form and attach to DATR in SPF.