

DEC 15 2015

Sherri R. Ross, Program Manager
Waste Removal and Tank Closure
Waste Disposition Programs Division
Savannah River Operations Office

Dear Ms. Ross:

ACTION ITEM FOLLOW-UP IN SUPPORT OF U.S. NUCLEAR REGULATORY COMMISSION ONSITE OBSERVATION VISIT ON JULY 28-29, 2015

Ref:

1. SRR-CWDA-2015-00095, *Savannah River Site F and H Area Tank Farms NRC Onsite Observation Visit, July 28-29, 2015*, Savannah River Site, Aiken, SC, Revision 1, August 2015.
2. SRR-CWDA-2015-00109, *DOE/SRR Liquid Waste Operations Quarterly FFA Update – Tank 16 Grouting Update*, Savannah River Site, Aiken, SC, Revision 0, August 2015.

An F-Tank Farm (FTF) and H-Tank Farm (HTF) onsite observation visit by the U. S. Nuclear Regulatory Commission (NRC) was held at the Savannah River Site (SRS) on July 28-29, 2015. During the outbrief for the visit a number of Action Items were captured (Reference 1, slides 51-53). Information relative to three of the remaining open Action Items is provided below. The three Action Items include the following:

10. *DOE to provide NRC video/photos of in-tank evaluation to determine placement locations for final bulk fill of primary tank and associated lessons learned.*
11. *DOE to provide NRC video of grout flow into annulus duct inlet ventilation ports.*

14. DOE to provide NRC video of Tank 16 grout operations (full video)

Action Item 14

Savannah River Remediation LLC (SRR) has prepared a copy of the video footage from Tank 16 grouting activities. The video being provided is a complete set of all video recorded during grouting of the tank. In total there are 44 DVDs being provided. Attachment 1 to this memorandum provides an overview of the video being provided for Tank 16. The attachment shows all dates on which the tank received grout and identifies the grouting activity (e.g., lift number, cooling coil fill) being performed. The DVDs have been labeled by date of the footage and the video footage also contains time and date stamps. The video footage has been cleared for release to the general public. In order to cover all the different aspects of the grouting activities, and to ensure NRC has access to any portion of the grouting activities they are interested in, SRR has provided a full copy of the video collected during grouting activities. One complete set of DVDs is being provided at this time.

Action Item 11

The video being provided in response to Action Item 14 includes video footage of grout flowing into annulus duct inlet ventilation ports. As noted on Attachment 1 to this document, footage of grout flowing into the ventilation ports is provided on the annulus grouting video for 6/11/2015 starting at about 12:21 and being shown off and on at approximately 12:53, 1:00 and 1:08. The video is captured in DVD Chapter "5 L2 LP".

Action Item 10

At the time of the onsite visit, video inspection of the Tank 16 risers to determine riser access locations for the final bulk fill of the primary tank was in progress. Video of the inspections is provided in the DVDs provided for Action Item 14. Video footage taken in Risers 1 and 3 is provided on the video dated 7/27/2015. Video inspection of the 3'-6" riser is provided on the DVD dated 7/29/2015. Based on the video inspection, it was decided that the final fill would be performed using a more flowable grout formulation. The grout formulation is referred to as "clean cap grout" in that it is the same formulation utilized to clean cap the top of the saltstone monoliths in several of the Vault 4 cells in the Saltstone Disposal Facility at SRS. (Reference 2) More details on the final grout fill (e.g., grout specification, volume of grout, associated Unreviewed Waste Management Question Evaluation) will be provided to the NRC along with the Tank 16 Final Configuration Report. Final issuance of the Tank 16 Final Configuration Report is anticipated to occur in the first quarter of calendar year 2016. Action Item 10 will not be considered closed by SRR until the follow-up information is provided to the NRC.

Action Items –General

In addition to Action Item 10 as described above, two other Action Items remain open at this time. The remaining Action Items are the following:

5. *DOE to provide information on lessons learned/procedure changes relative to the rejected Tank 6 grout truck.*

7. *NRC to set up a telecom to discuss ongoing NRC grout testing relative to Tank Farm grout.*

Regarding Action Item 5, SRR is gathering information and will provide available information when it is assembled and has been cleared for release. Action Item 7 is in reference to a future discussion which has not been scheduled at this time.

If you have any questions please contact me at 557-8960.

Sincerely,



Steven A. Thomas
Manager
Waste Disposal Authority

st/lr

Att.

c:

K. H. Rosenberger, 705-1C
L. B. Romanowski, 705-1C
M. H. Layton, 705-1C
S. P. Simner, 705-1C
L. K. Pressley, 705-1C

J. K. Fortenberry, 766-H
J. E. Occhipinti, 704-56H
G. C. Arthur, 241-284H
D. J. Ferguson, 704-S
G. R. Davis, 241-156H

Sherri R. Ross
SRR-CWDA-2015-00170
Attachment 1

Attachment 1: Tank 16 Grouting Operation Videos

SRS Tank 16 Grouting Schedule¹

June-15

S	M	T	W	T	F	S
	1	2 Lift-1	3	4 Lift-1	5	6
7	8 Lift-1	9	10 Failed Coil	11 Lift-1 & 2 ²	12	13
14	15 Lift-2 & 3	16 Lift-3	17 Lift-3	18 Lift-3	19	20
21	22 Lift-3	23 Lift-3	24 Lift-3	25 Lift-3	26	27
28	29 Lift-3	30 Lift-3				

July-15

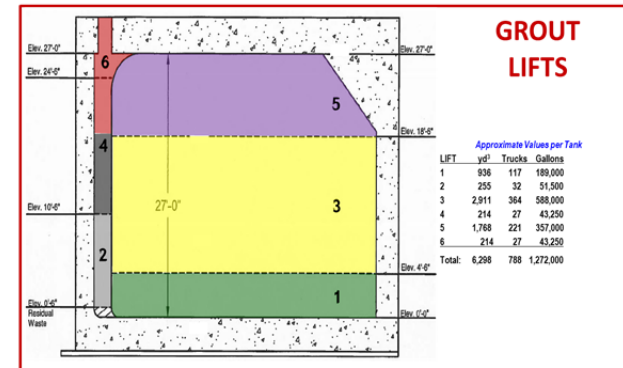
S	M	T	W	T	F	S
			1 Lift-3	2	3	4
5	6 Lift-3	7 Lift-4	8 Lift-5	9 Lift-5	10	11
12	13 Lift-5	14 Lift-5	15 Lift-5	16	17	18
19	20 Lift-5	21 Lift-5	22	23	24	25
26	27 Eval. R1&3	28	29 Eval. 3'-6"	30	31	

August-15

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31 Lift-5					

September-15

S	M	T	W	T	F	S
		1 Lift-6	2 Lift-6 ³	3 Lift-5 ³	4	5
6	7	8	9	10 Lift-6 ⁵	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



Days Tank 16 primary tank received grout

Days Tank 16 annulus received grout

Days Tank 16 riser(s) received grout

Days Tank 16 failed cooling coils received grout

Days Tank 16 intact cooling coils received grout

Days Tank 16 in tank equipment received grout

- ¹ Video is available and provided for all dates noted in red.
- ² Footage of grout entering the annulus ventilation duct can be found starting at 12:21 on 6/11/2015. (DVD Chapter: 5 12 IP)
- ³ Last four trucks switched to clean cap grout.
- ⁴ Primary tank bulk fill completed with clean cap grout.
- ⁵ Annulus fill completed with clean cap grout.