

**UNREVIEWED WASTE MANAGEMENT QUESTION  
EVALUATION (UWMQE)**

**UWMQE Number:** SRR-CWDA-2015-00088

**Revision:** 0

**UWMQE Title:** Use of Grade 120 Slag in tank closure grout

**UWMQE Supported Documents**

**TECHNICAL**

Number: SDDR #13182 Date: 06/2015 Revision: 0

Number: USQ-HTF-2015-00300 Date: 08/28/2015 Revision: 0

**SUPPORTING**

Number: SRR-CWDA-2015-00057 Date: 08/27/2015 Revision: 1

Number: \_\_\_\_\_ Date: \_\_\_\_\_ Revision: \_\_\_\_\_

**1. Unreviewed Waste Management Question Evaluation**

**Proposed Activity Description**

The proposed activity is to allow use of Grade 120 Slag in tank closure grout. A deviation (SDDR #13182) from Section 3.2.3.3 of the bulk fill grout procurement specification (C-SPP-F-000055, Rev 4) is being proposed to allow either Grade 100 or Grade 120 Slag to be used in the waste tank grout. Section 3.2.3.3 of the bulk fill grout procurement specification currently specifies that only Grade 100 Slag Cement may be used. While tank grout meeting the grout fill formulation specifications will inherently meet the HTF (SRR-CWDA-2010-00128) and FTF (SRS-REG-2007-00002) Performance Assessment (PA) assumptions, a deviation from the specifications does not necessarily lead to the grout not meeting the PA conclusions.

**NOTE:** Each question below requires Comment / Justification.

- a. Is the Proposed Activity or New Data outside the bounds of the critical inputs/assumptions of the analyses contained in the WD, PA, CA, approved SA(s), or approved UWMQE(s)? For example, does the proposed activity or new information involve a change to the assumed critical design features for a waste tank/disposal unit design as described in the WD, PA, CA, approved SA(s), or approved UWMQE(s) such as critical inputs/assumptions?

Yes  No

**Comment / Justification:**

Since the Tank Farm Waste Determination Basis Documents (DOE/SRS-WD-2012-001 and DOE/SRS-WD-2014-001) do not prescribe a grout formulation and only describe general grout properties, the proposed activity is within the bounds of the Waste Determination Basis Documents. The impact of the grout formula change on the PAs was evaluated in SRR-CWDA-2015-00057 and use of Grade 120 Slag was shown to be consistent with the inputs and assumptions contained within the Tank Farm PAs.

**UNREVIEWED WASTE MANAGEMENT QUESTION  
EVALUATION (UWMQE)**

**1. Unreviewed Waste Management Question Evaluation - continued**

- b. Does the New Data involve an increase in the radionuclide inventory or chemical constituents evaluated in the approved WD, PA, CA, approved SA(s), and approved UWMQE(s)?

Yes  No

Comment / Justification:

The proposed activity relates to tank closure grout and does not increase the tank radionuclide inventories or chemical constituents.

- c. Would the radionuclide disposal limits need to be changed to implement the proposed activity?

Yes  No

Comment / Justification:

The proposed activity relates to tank closure grout and in no way impacts tank radionuclide inventory.

- d. Is it possible that the Proposed Activity or New Data causes the WD, PA, CA, approved SA(s), or approved UWMQE(s) performance objectives to be exceeded?

Yes  No

Comment / Justification:

The impact of the grout formula change on the PAs was evaluated in SRR-CWDA-2015-00057 and use of Grade 120 Slag was shown to be consistent with the inputs and assumptions contained within the Tank Farm PAs. Since the proposed activity does not relax other grout specification requirements (e.g., weight of grout ingredients such as cement, sand, water, fly ash, slag, etc) and the tank closure grout will continue to perform as assumed in the Tank Farm PAs, the proposed activity will not impact performance objective compliance.

**UNREVIEWED WASTE MANAGEMENT QUESTION  
EVALUATION (UWMQE)**

**2. UWMQE Originator**

IS the activity within the bounds of the existing  
WD, PA, CA or approved SA(s) and approved  
UWMQEs?

Yes  No

IS a Special Analysis required?

Yes  No

Comment / Justification:

The proposed activity is to allow use of Grade 120 Slag in tank closure grout. As documented in SRR-CWDA-2015-00057, the grout will continue to perform as assumed, the proposed activity will not impact performance objective compliance.

Check one of the following boxes below and forward to peer reviewer.

- CANCEL the proposed activity. (Document canceled activities as applicable.)
- MODIFY the proposed activity.
- PROCEED to PARC approval (if no SA is required).
- PROCEED with proposed activity; categorical exclusion applies.
- PERFORM Special Analysis.

Originator: Mark H. Layton

Print

Mark H. Layton

Signature

Date: 9/1/15

Time: 11:15



OSR 46-522  
Rev. 3  
12/08/2014

LW Form

Savannah  
River Site (SRS)

### UNREVIEWED WASTE MANAGEMENT QUESTION EVALUATION (UWMQE)

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**4. UWMQE AGCC Reviewer**

Is there a legal objection to the UWMQEO's  
determination?

Yes

No

Comment / Justification:

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AGCC or Delegate AGCC

VICTOR FRANKLIN

Print

[Signature]

Signature

Date:

9/8/15

**5. UWMQE VP/GC Reviewer**

a. Will VP/GC participate in the UWMQE?

Yes

No

b. If "Yes" to 5a., Does VP/GC concur with the UWMQEO's determination?

Yes

No

Comment / Justification:

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VP/GC or Delegate VP/GC

[Signature] →

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VICTOR A. FRANKLIN

Signature

Date:

9/9/15

