



**Savannah River
Remediation**

AECOM | BECHTEL | CH2M | B&W | AREVA

TANK 16 Grouting Update

August 19, 2015

DOE/SRR LIQUID WASTE OPERATIONS QUARTERLY FFA UPDATE

James Rush

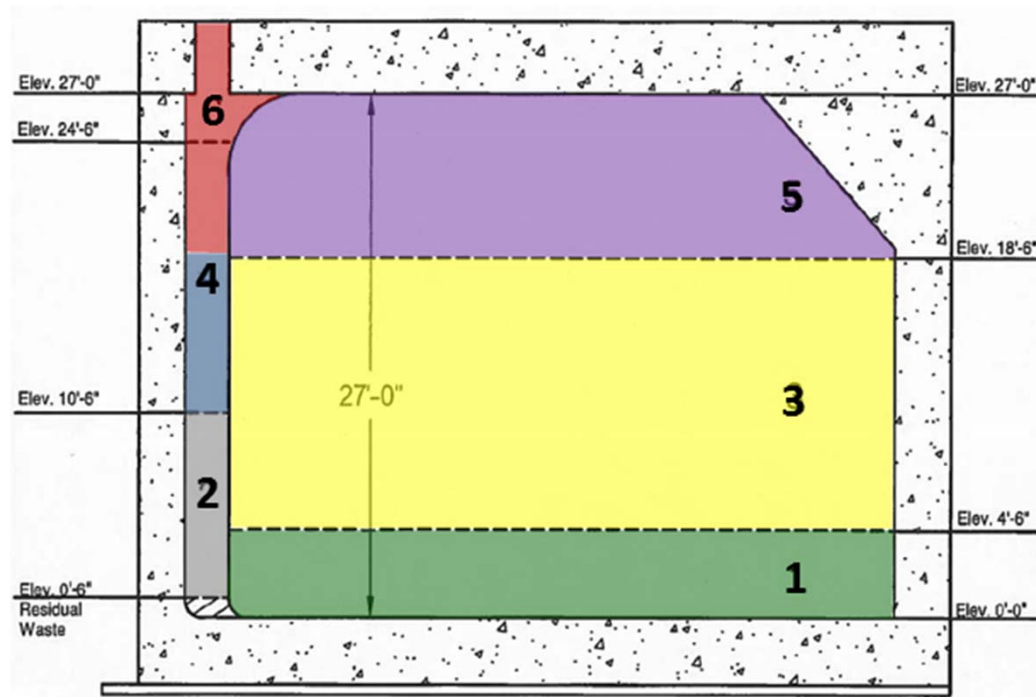
Tank 16 Control Account Manager

SRR-CWDA-2015-00109

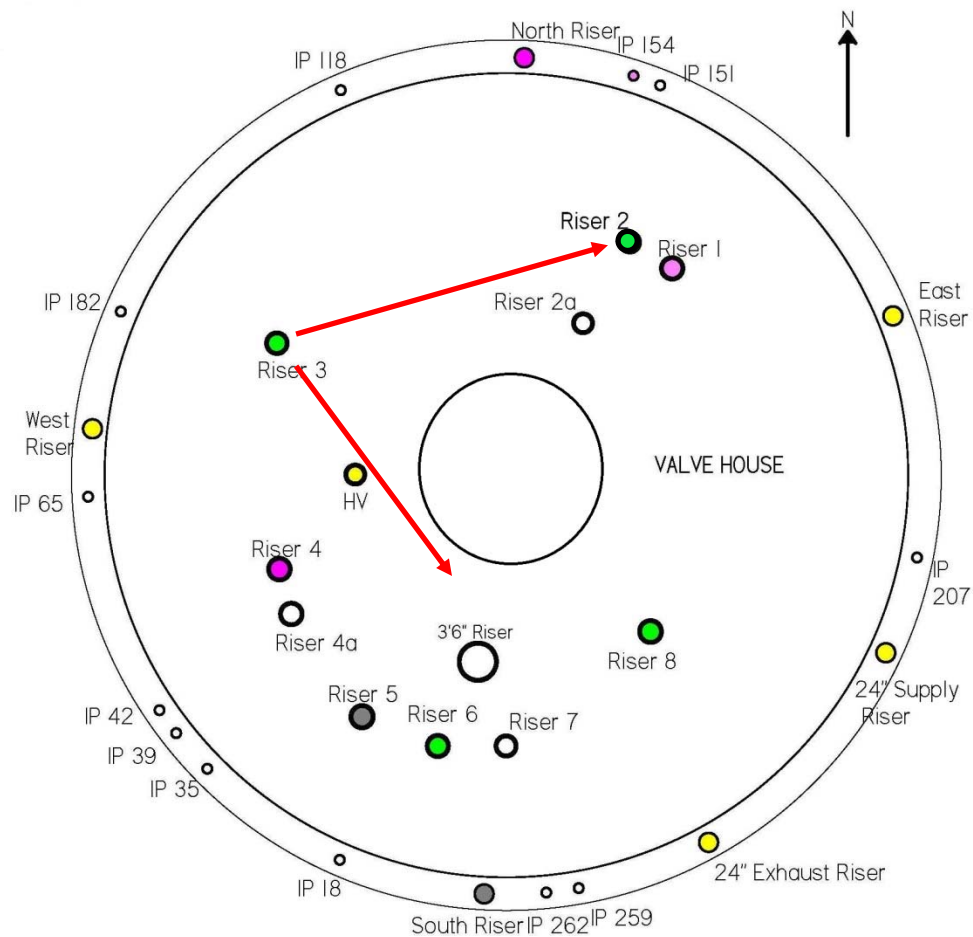


We do the right thing.

- Current Primary Tank Status - 94% Complete.
- Greater than Expected “Mounding” in Lift 5.
- Elevated Temperatures is believed to be the cause.
- The “Mounding” created concerns about void space at the end of the evolution.



We do the right thing.

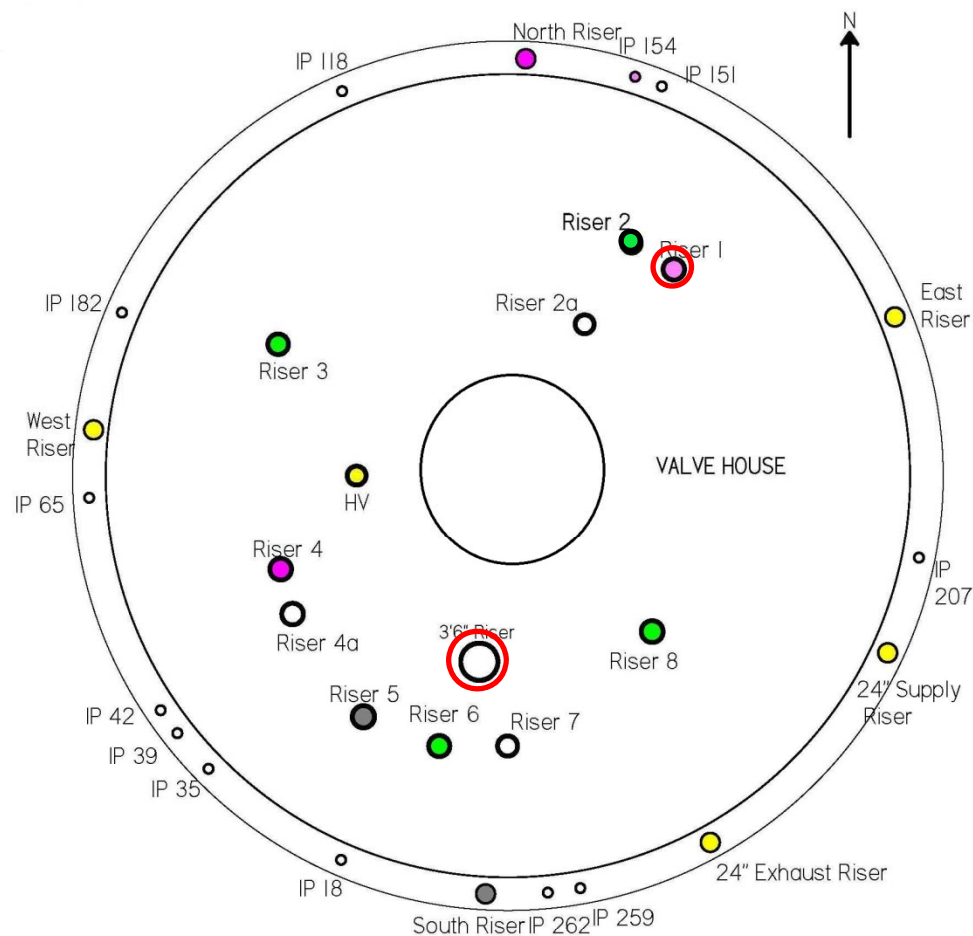


Tank 16 Riser Layout



We do the right thing.

- Evaluate Other Available Risers not pre-plumbed with Slick Line
- Riser 1
- 3'-6" Riser



Tank 16 Riser Layout

We do the right thing.

- Use of Alternate Grout Formulas for the Remainder of the Bulk Fill

Grout Formula	Production Volume	Flowability	Reducing Properties	Bleed Water	Existing Specification
Equipment	Low	High	Yes	No	Yes
Cooling Coil	Low	High	Yes	No	Yes
HF CLSM	High	High	No	Med	No
Vault 4 Clean Cap	High	High	Yes	Low	Yes

We do the right thing.

- Alternate risers are unavailable for use; therefore, alternative 1 is not an option.
- The equipment fill grout and cooling coil grout could be used to fill the remainder of the tank, neither of these formulas can be produced or delivered in significant enough quantities to fill the voids.
- The use of high flow CLSM could be used but bleed water inherent in the mix creates issues that are undesirable in our application.
- Vault 4 clean cap grout is used for leveling and filling head space in the Saltstone vaults. Considering its previous use on Vault 4, the flowability of the grout, the low bleed water produced by the mix, and the reducing capacity of the mix, the Vault 4 clean cap grout was determined as the best overall solution.

We do the right thing.

1. Completed the UWMQE (Unreviewed Waste Management Question Evaluation) Process
2. Procurement Actions
3. Update the Grout Fill Work Package
4. Tank 16H Final Configuration Report
5. Formal Lessons Learned