



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

Integrated Waste Treatment Unit Update

Curtis Roth

IWTU Operations Activity Deputy Manager
Idaho Cleanup Project

June 23, 2015

Integrated Waste Treatment Unit

Key Activities/Actions:

- Continued update of operating procedures and training of operators in accordance with lessons learned from testing.
- Prepare test plan for follow-on simulant run.
- Resolve outstanding issues identified during post simulant run engineering inspection.

Upcoming Activities:

- Complete facility modifications to address wall scale formation and off-gas filter material transfer issues.
- Commence next simulant run to verify effectiveness of modifications.
- After next simulant run, begin Outage F and engineering evaluation to confirm modifications were effective.

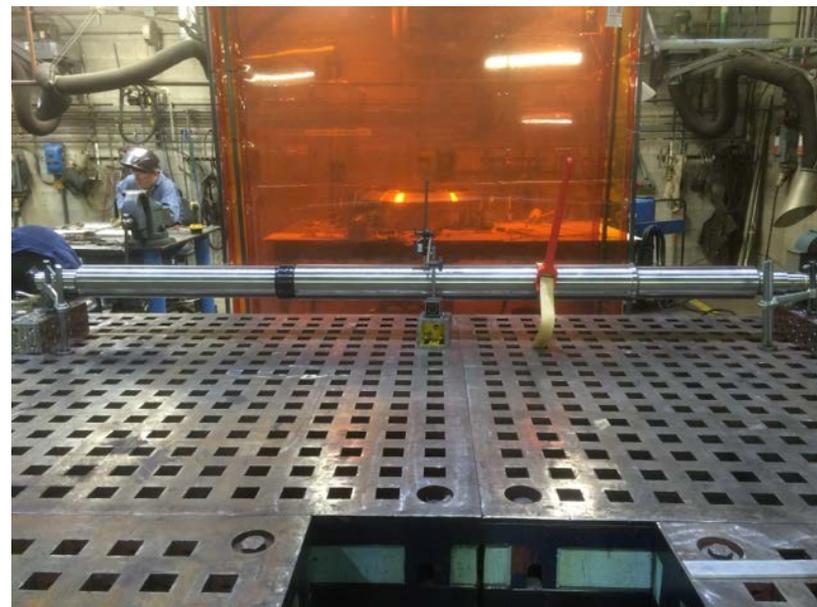
Status of IWTU Adjustments

1. “Bark” (wall scale) Formation in the Denitration/Mineralization Reformer (DMR): Chemical analysis has determined this occurred during the second half of the simulant run. Adjustment: Changing DMR bed material from bauxite to alumina, adjusting operating parameters.
2. Carbon Reduction Reformer (CRR) Refractory Lining: Adjustment: All CRR penetrations have been removed. Repairs to refractory lining completed in June. Curing of the material will follow into heat-up for the next simulant run.



Status of IWTU Adjustments

3. Off-Gas Filter (OGF) Material Transfer: Adjustment: Completed installation of larger transfer jet and air flow upgrades to gas cannons.
4. Off-Gas Blowers: Improper vendor heat treatment determined as cause of shaft deflections. Adjustment: Vendor will replace all four blower shafts and complete testing prior to start of Test Instruction-103.



- The next simulant run will verify whether modifications to the system and operating procedures have solved problems identified.
- Results of the next simulant run will determine path forward.
- Agreement with the State establishes Sept. 30, 2016 as milestone date to begin treatment of radioactive waste.

