

Technical Issue Status and Path Forward

Waste Management Symposium 2017

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^EM Environmental Management safety * performance * cleanup * closure



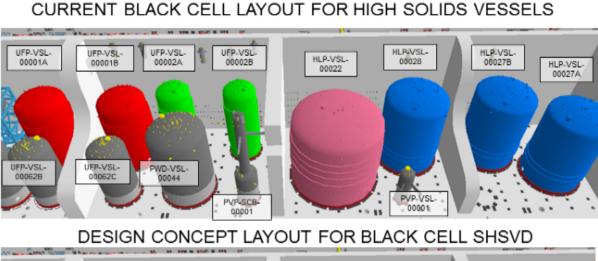
Technical Issues Resolution: In Progress

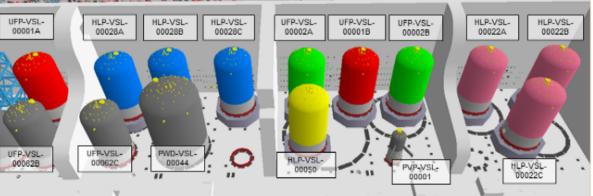
Technical Issue	Status of Resolution
T-1 Hydrogen Gas in Vessels	Resolved (2016)
T-2 Inadvertent Criticality	Resolved (2016)
T-3 Hydrogen in Piping and Ancillary Vessels	Resolved (2016)
T-4 Pulse-Jet Mixing and Control	3Q 2017
T-5 Erosion/Corrosion in Piping and Vessels	4Q 2018
T-6 Design Redundancy/In-Service Inspection	2Q 2018
T-7 Vessel Structural Integrity	4Q 2017
T-8 Facility Ventilation	2Q 2018



Next Actions and Path Forward

- Continued priority on resolution of the remaining technical issues
- ORP provide authorization to proceed with PT Facility production engineering following technical issue resolution
- Complete facility design and safety basis documentation
- Evaluate potential direct-feed high-level waste (DFHLW) vitrification approach





Vessel color coding depicts common functionality between current design configuration (top) and proposed design configuration with SHSV (bottom).

High-Level Waste and PretreatmentCTIONBaseline Change Plans

DOE will update the WTP Performance Baseline in three phases:

- > Phase 1: Direct-feed low-activity waste (DFLAW) (completed)
- Phase 2: HLW Facility

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- Production engineering ongoing
- Completing design engineering studies and safety basis update
- DFHLW evaluation and decision
- Facility Completion Plan will outline path to full production and rebaseline
- Utilize rebaseline and contract modification process used for DFLAW

Phase 3: PT Facility

- Complete technical issue resolution
 - Complete conceptual design with SHSV
- Complete design engineering studies and safety basis update
- Assess mission changes (if any) resulting from DFHLW
- Utilize rebaseline and contract modification process used for DFLAW

Note: Phase 2 and Phase 3 may be combined.



With strong technical justification...

Working on resolution plans for all remaining technical issues

The Hanford Reach White Bluffs Overlooking the Columbia River