

Citizens Advisory Board Presentation

Integrated Waste Treatment Unit

19 November 2014

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EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

IWTU Past Performance

- ✓ DOE Readiness Assessment completed March 21, 2014
- ✓ Facility operated for several weeks at normal operating temperature and pressure.
- ✓ Facility shut down for several outages, initiated to address facility maintenance issues. Work pulled forward from original outage schedule.
- ✓ Outage A – 4/24/2014 to 6/2/2014 – Shutdown due to issue with hydrogen analyzer jet, resized and installed duplicate analyzer jet
- ✓ Outage B – 8/11/2014 to 9/7/2014 – Shutdown due to plugging in waste feed nozzles, changed nozzle design due to fractured ceramic tip



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IWTU Past Performance

- ✓ Outage C – 9/16/2014 to 9/27/2014 – Shutdown due to solids leak in upper packaging Cell 1, redesigned staubli connection hold down
- ✓ Outage D – 10/6/2014 to 11/5/2014 – Shutdown due to Off Gas Filter delta pressure issues, redesigned and installed gas cannon



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IWTU Current Status

- The plant has gone through several heatup/cooldown cycles due to equipment issues attempting to introduce simulant.
- Resumed heating up on November 11th to normal operating temperature and pressure to re-introduce steam and begin simulant processing.
- Implementing recommendations from independent reviews through the DOE-ID Startup Assurance Plan.



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Path Forward to Begin Waste Processing

- Introduce simulant feed (Approximately 30K gallons of simulant)
- DOE Independent Review of two radiological controls Readiness Assessment (RA) pre-start findings and post RA facility modifications
- Define Acceptance Criteria for initiating radioactive operations
- Enter Outage E for inspection of plant post simulant run to verify performance of key facility modifications
- Obtain Idaho DEQ Temporary Authorization and approval of System Performance Test Plan
- Commence TI-103 Radioactive Waste Processing (Actual processing rate will be based upon TI-102 simulant processing results)

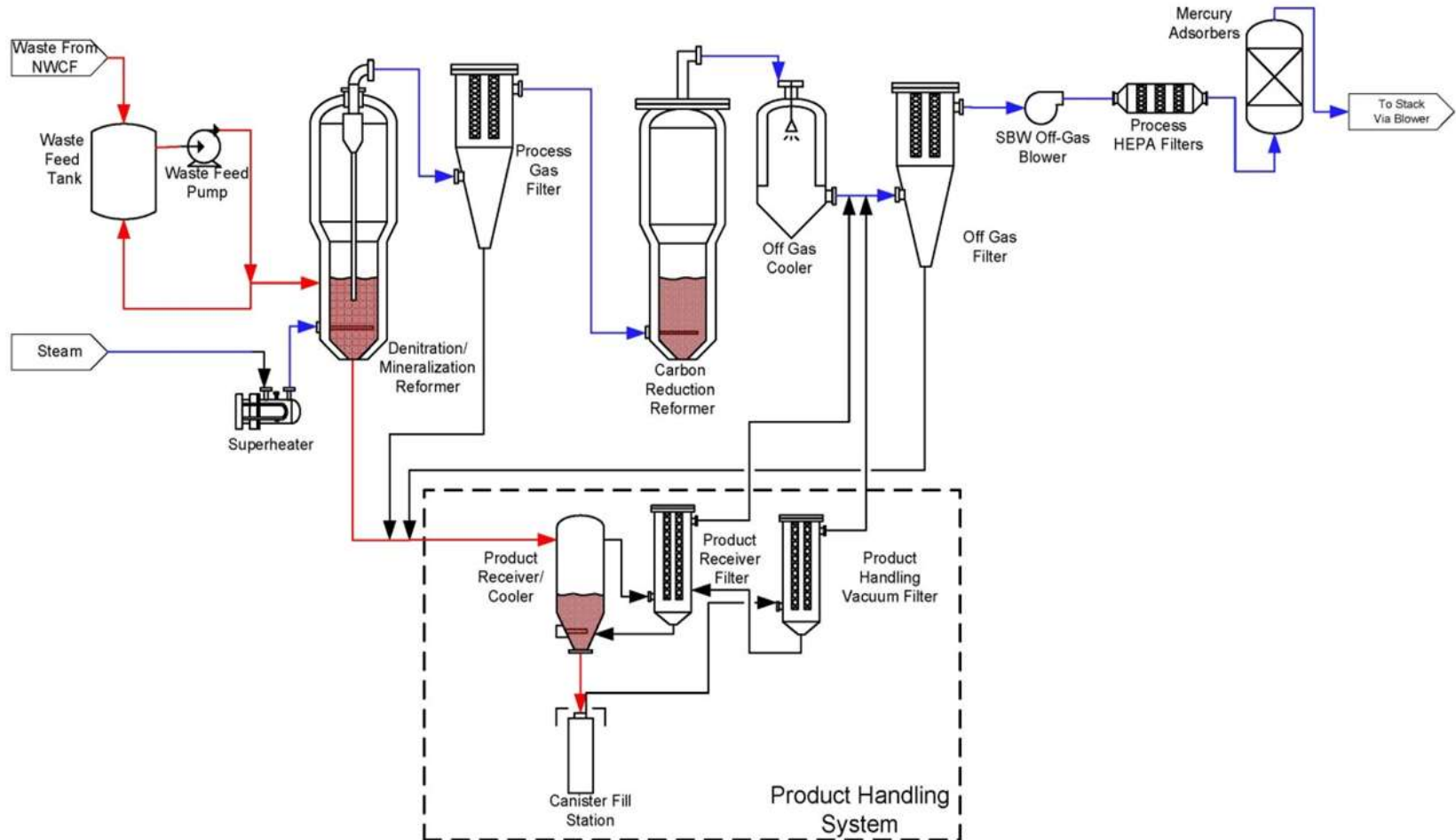


Dashboard Summary for IWTU Project

| Key Questions | Dashboard Indicator | Comments |
|--|--|---|
| Impact on budget for activity or cleanup |  | Project costs have increased because of delays in startup and testing. |
| Impact on employment or economic development |  | Project has no negative affect in this area. |
| Affect on agreements |  | Settlement Agreement milestone missed. Consent Order revised to 31 Dec 2014. |
| Impact on safety and environment |  | This project will process radioactive liquid waste into a solid waste for disposal. |
| Impact on cleanup DOE-wide |  | The process used is one-of-a-kind and could have further application DOE wide when successfully proven. |



Integrated Waste Treatment Unit Process



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