



Integrated Waste Treatment Unit

Mark C. Brown
Deputy Manager

February 16, 2023



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Idaho Cleanup Project

IWTU Successes, Issues, and Goals

Successes and Issues:

- Successfully integrated gaseous nitrogen plant into facility operations
- Confirmatory Run successfully completed
- Outage L confirmed Process Gas Filter issues fully resolved
- Erosion discovered under Product Receiver Cooler 0
 - ✓ Completed repair; extent of condition review completed
- Confirmatory Run identified that an additional product storage is needed
 - ✓ Conduct planning and design efforts for additional product storage

Goals for remainder of 2023:

- Startup facility and conduct baseline emissions testing using simulant
- Processing sodium-bearing waste
- Begin planning for next facility outage
- Continue planning efforts for additional product storage building



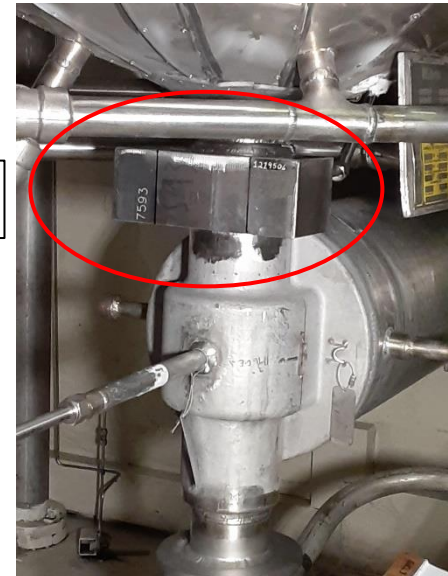
Product Receiver Cooler 0 Valve Erosion



Eroded hole below PRC-0



Weld repair



Weld repair



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Idaho Cleanup Project

Preparations for Waste Processing



PGF tubesheet and filter inspection
following confirmatory run

Product Storage Building after
removal of temporary simulant tanks



Path to Waste Processing

Completed:

- ✓ Readiness Reviews—verified readiness for radioactive sodium-bearing waste processing
- ✓ Completed facility inspections and preparations for radioactive waste processing

Remaining:

- ☐ Startup and operate facility on simulant (2-4 weeks)
 - Conduct baseline emissions sampling
- ☐ Receive DOE headquarters authorization to begin radioactive waste processing
- ☐ Begin processing sodium-bearing waste
 - Blended tank waste with simulant during initial operations
 - Complete permit required System Performance Test
 - Routine waste treatment operations



Questions?



EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

Idaho Cleanup Project