U.S. DEPARTMENT OF ENERGY | OFFICE OF ENVIRONMENTAL MANAGEMENT

Idaho Cleanup Project Update
Leadership in Nuclear Energy Commission

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January 23, 2018

- Successful simulant run at IWTU
- Near completion of TRU waste treatment
- Finishing treating Navy examination waste
- Moving all Navy fuel to dry storage
- Completed treatment of roaster oxides
- Nearly done with waste excavation in ARP VIII

(Above) Excavating waste from ARP VIII, which is nearly complete.

The Supercompactor used to treat transuranic waste at AMWTP (above) is nearing the end of its mission.

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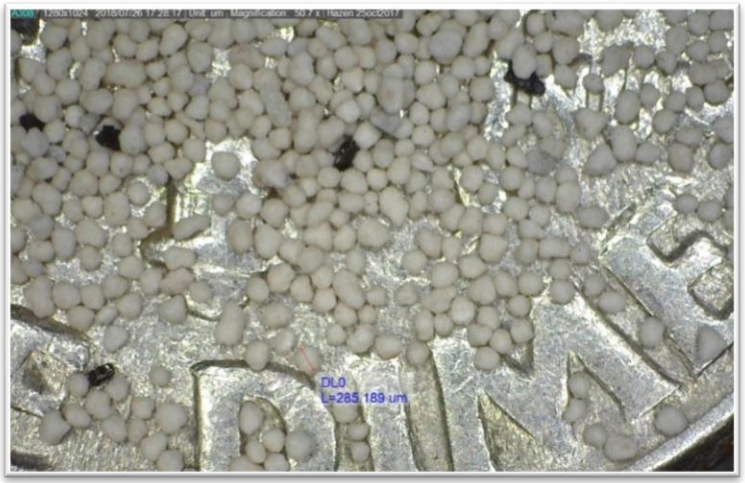
The treatment of roaster oxides at ARP IX (below) was completed in 2018. Waste exhumation is scheduled to begin there this year.

Integrated Waste Treatment Unit



Simulant Run 2 Product

Seeking solutions to clogging of PGF filters.

- Simulant run No. 2 completed in August was major success.
- DMR modification proved effective: differential temperatures were within targets, particle size was very predictable, product transfers occurred without issue.
- Process Gas Filter performance was an issue – solutions identified during maintenance shutdown.
- Bottom line: simulant run showed redesigned DMR works and can successfully treat the remaining liquid waste.

Integrated Waste Treatment Unit

What's Next:

- New filters treated to further resist high temperature corrosion and filter pore plugging.
- Complete maintenance outage and begin heat-up for next simulant run.
- Simulant Run 3 will be 50 days.
- Objectives include adjusting plant operating parameters to optimize operations

New Process Gas Filters treated to resist corrosion and filter pore plugging have been installed.

Stored Transuranic Waste Program

Above: Contact-handled waste in storage, waiting for shipment to WIPP.

Transuranic waste continues to leave the state. We are averaging about six shipments per week.

Below: RH Waste repackaging in hot-cell.

Spent Nuclear Fuel

CPP-749 – Positioning cask over truck.

CPP-749 – Laying cask into truck bed.

- Remain on track to meet ISA milestone to move all spent fuel into dry storage by 2023.
- All remaining Naval Reactors fuel is expected to be moved to dry storage at NRF by the end of this month.