



Idaho Cleanup Project Overview

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EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Idaho Cleanup Project

Site Priorities and Hot Topics

- Commence IWTU radiological operations
- D&D of ARP V, II and III
- Complete spent nuclear fuel wet-to-dry campaign
- Finalize Idaho spent nuclear fuel management plan
- Negotiate additional task orders
- Increase pace of TRU certification and shipments
- Update Naval Reactors D&D plan to reflect accelerated pace



ICP Vision



IWTU

Near-Term (Next 5 Years) 2028

- Continue D&D of NR and RWMC facilities
- Start up and operate IWTU
- Complete sludge treatment
- Complete wet to dry transfers of SNF
- Complete SDA cap
- Complete TRU waste certification and WIPP shipments
- Construct ICDF expansion
- Continue execution of INTEC long-term infrastructure plan



SDA Cap

Intermediate (Next 10 Years) 2033

- Continue Naval Reactors D&D work
- Complete RWMC D&D
- Complete SBW treatment and close tank farm



Calcine Bin Sets

Long-Term (Next 15 Years) 2038

- Package and store SNF
- Treat calcine to be “road ready”



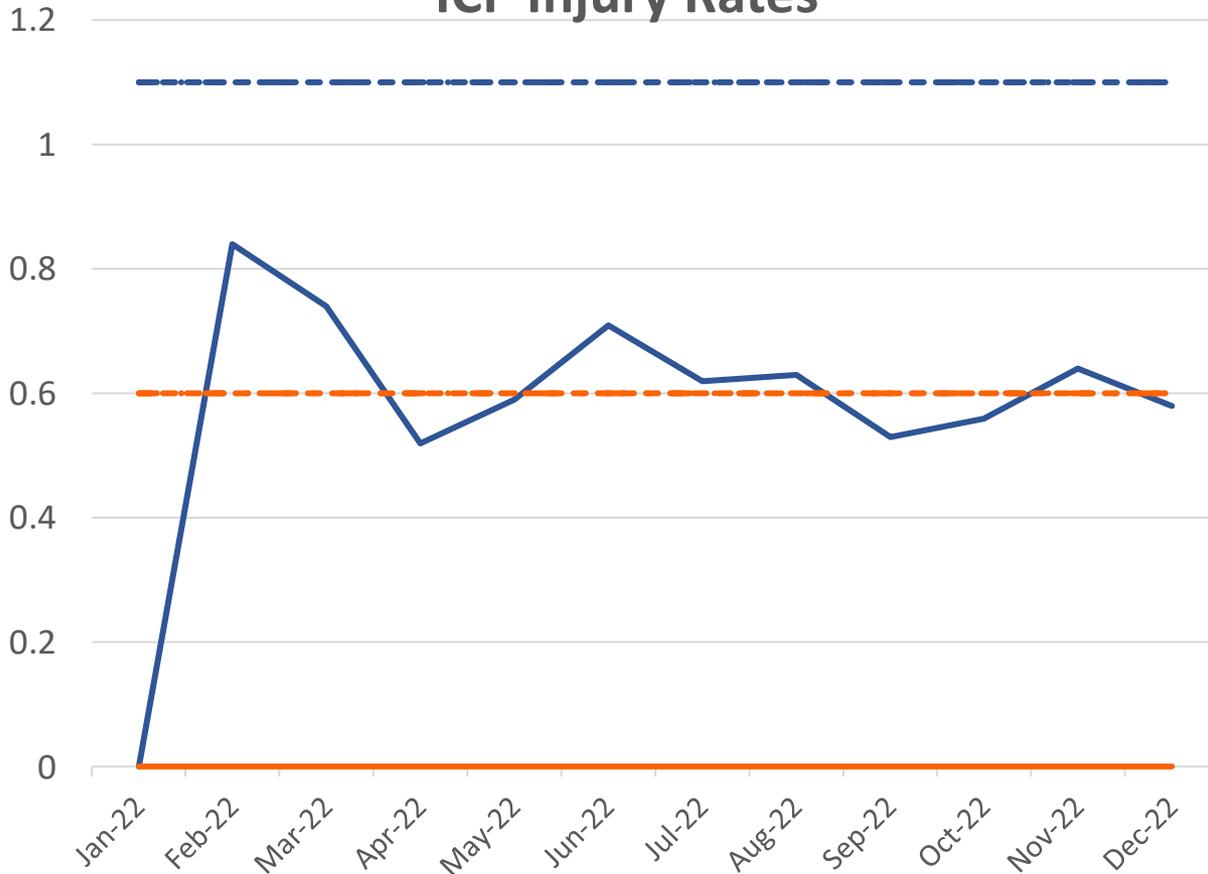
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ICP Safety Performance

ICP Injury Rates



October 2022

- 2 First Aid Cases
- 1 Recordable Injuries
- No ORPS Reportable Events

November 2022

- 8 First Aid Case
- 2 Recordable Injury
- No ORPS Reportable Events

December 2022

- 3 First Aid Cases
- 0 Recordable Injuries
- No ORPS Reportable Events

— • • EM TRCR Goal <1.1
 - - - IEC TRCR Goal <1.1
 — TRCR
— • • EM DART Goal <0.6
 - - - IEC DART Goal <0.6
 — DART



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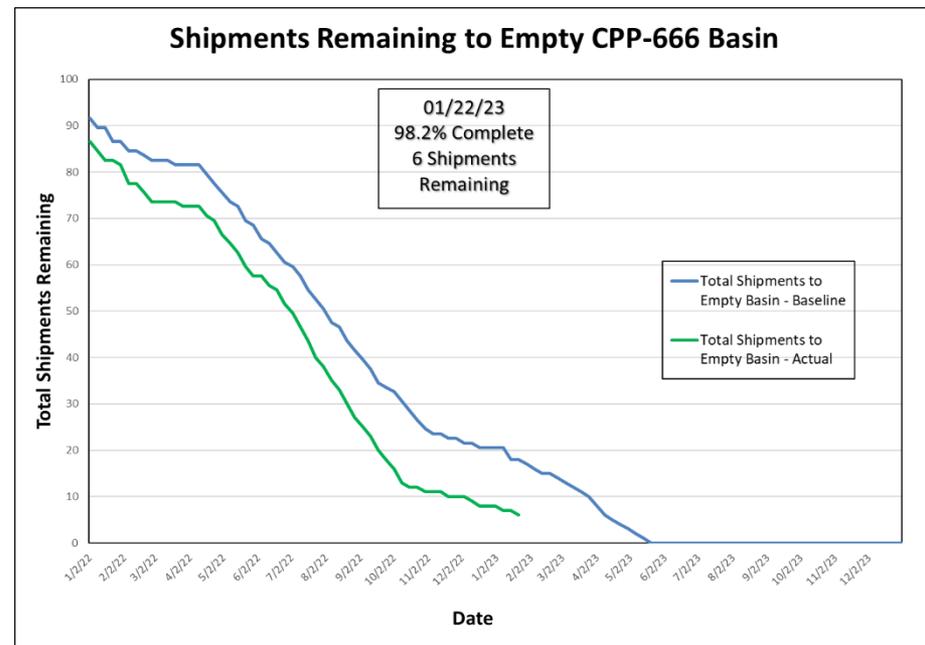
Waste Type	Origin	Mass Remaining	Amount Shipped	Destination	Applicable Agreements
Spent Nuclear Fuel 	DOE, research and commercial reactors	243.57 Metric Tons Heavy Metal (EM-only)	153 TRIGA elements 0.03 MTHM (for reuse)	Disposition out of state	Idaho Settlement Agreement

FY 2022 Accomplishments

- Fort St Vrain admin building completion
- Continued wet to dry transfers

Scope for FY 2023

- Finalize Idaho SNF management plan
- Complete wet-to-dry storage transfers
- Develop staging facility plans
- Continue efforts toward the road ready dry storage demonstration
- Navy Core Car prep



Peach Bottom fuel storage facility



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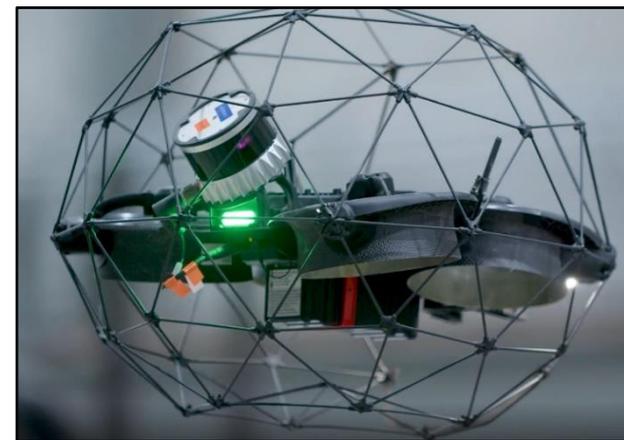
Waste Type	Origin	Volume Remaining	Amount Shipped	Destination	Applicable Agreements
High-Level Waste 	Reprocessing of spent nuclear fuel	4,400 cubic meters	None	Disposition out of state	Idaho Settlement Agreement, Site Treatment Plan

FY 2022 Accomplishments

- Received calcine solids storage facility (CSSF) performance assessment/composite analysis approval
- Kicked off Catholic University vitrification studies

Scope for FY 2023

- Complete supplement analysis and amended ROD
- Public review period for bin set cleanout draft document
- Finalize bin set 1 above grade removal design package



Drone for mapping calcine bin set interiors



Calcine Solids Storage Facility



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Drone Flight Video



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Waste Type	Origin	Volume Remaining	Amount Shipped	Destination	Applicable Agreements
Sodium-Bearing waste	De-Con of reprocessing facilities	900,000 gallons	None	Disposition out of state	Idaho Settlement Agreement, Site Treatment Plan, Notice of Non-Compliance/Consent Order



Integrated Waste Treatment Unit

See separate IWTU update



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Waste Type	Origin	Volume Remaining	Amount Shipped	Destination	Applicable Agreements
Transuranic and Mixed Low-Level Waste 	Site operations, Rocky Flats Plant, other DOE facilities	5,414 (CH-TRU) 394 (M/LLW)	46,574 (CH-TRU) 14,749 (M/LLW)	WIPP Licensed off-site disposal site	Idaho Settlement Agreement, Site Treatment Plan

FY 2022 Accomplishments

- 150 shipments completed to WIPP
- Completed Sludge Treatment STP milestone
- Met TRU waste certification and shipping requirements

Scope for FY 2023

- Complete sludge waste treatment in ARP VII
- Continue certification and shipping

Challenges impacting progress

- Commodities

WIPP Shipments	
Year	Completed/Planned
FY 2022	150/257
FY 2023	72/390



Shipment to WIPP



RWMC Closure Video



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CERCLA Cleanup Activities

FY 2022 Accomplishments

- ICDF expansion project preparations
- Completed abandonments for 12 SDA wells

Scope for FY 2023

- Complete D&D of ARP IV (completed) and ARP V
- Prepare ARP II and III for D&D
- Complete SDA cap redesign
- Begin ICDF landfill and evaporation ponds expansion
- Shoshone-Bannock Tribal long term stewardship program development
- Continue SDA well abandonments
- Finalize CERCLA remedial action report for buried waste exhumation



Aerial photo of ICDF, looking South



ARP IV D&D -
before (above)
and after (right)



ARP IV D&D Video



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Naval Reactors D&D



S1W Facility

See separate Naval Reactors D&D update



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