



# Idaho Cleanup Project Overview

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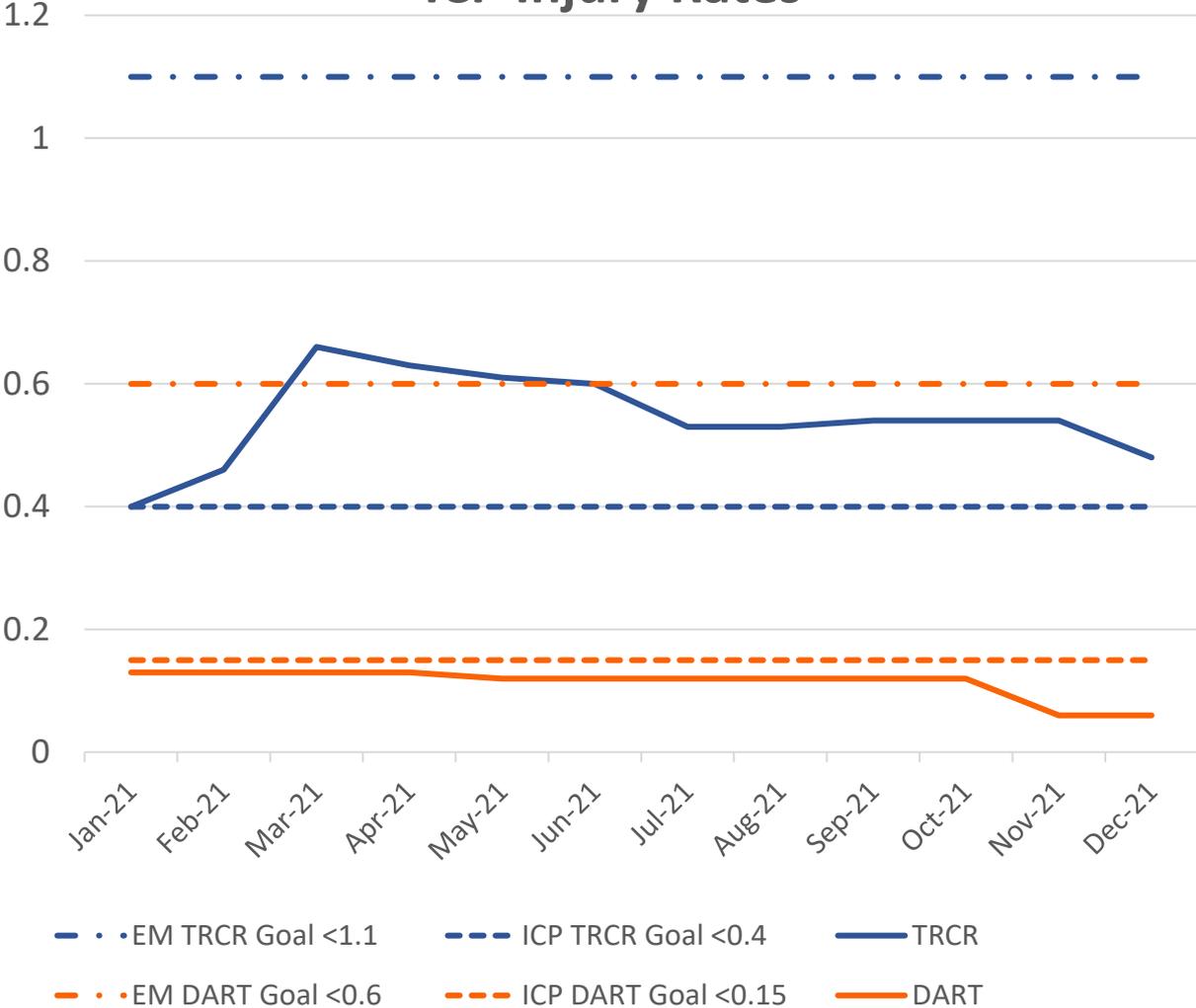
**EM Environmental Management**

safety ❖ performance ❖ cleanup ❖ closure

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# ICP Safety Performance

## ICP Injury Rates



### October 2021

- Two First Aid Cases
- No Recordable Injuries
- No ORPS Reportable Events

### November 2021

- One First Aid Case
- One Recordable Injury
- No ORPS Reportable Events

### December 2021

- Two First Aid Cases
- No Recordable Injuries
- One ORPS Reportable Event

Data is for the last three months of Fluor Idaho performance. Idaho Environmental Coalition (IEC) data will begin with January.



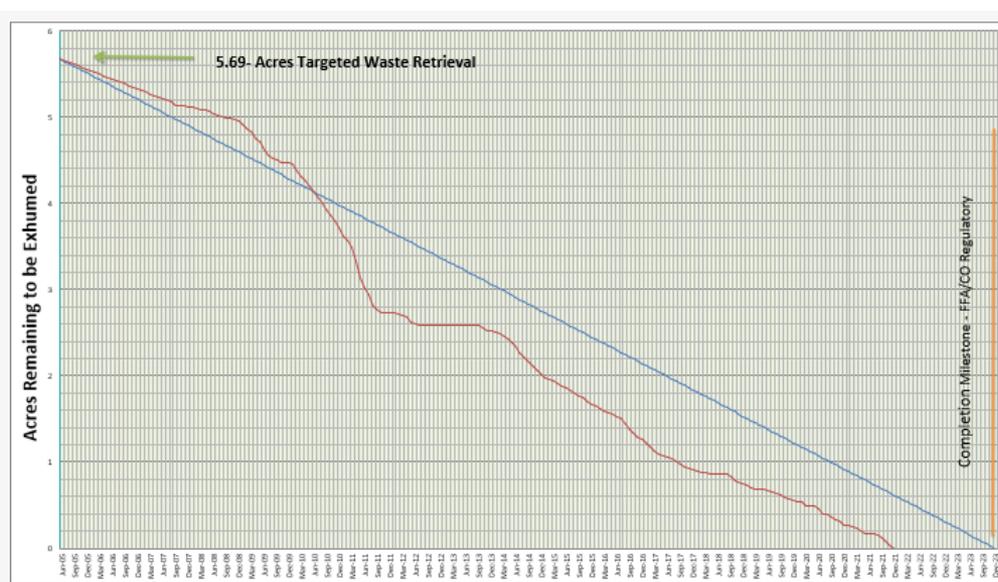
Waste Type	Origin	Volume Remaining	Amount Shipped	Ultimate Destination	Applicable Agreements
Buried Waste 	Site operations, Rocky Flats Plant, other DOE facilities	• 3,798.7 m <sup>3</sup> awaiting shipment	6,543.5 m <sup>3</sup>	Waste Isolation Pilot Plant	FFA/CO (CERCLA), Agreement to Implement

## Accomplishments

- Exhumation of the 5.69 acres was completed on December 6, 2021

## Status

- Post operations work is ongoing in preparation for D&D



ARP V- Post Operations Decontamination



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# Balance of CERCLA Cleanup Activities

## Accomplishments

- In Situ Bioremediation treatment injection into new well
- Preparations for public comment for ICDF Explanation of Significant Differences (ESD) and Tribal Consultation
- S1W turned over from NR to EM to begin D&D activities

## Status

- ISB and New Pump and Treat Facility (NPTF) treatment continues
- ICDF continues to receive waste from CERCLA remediation and D&D projects including NRF, INTEC and AMWTP
- Groundwater monitoring and institutional controls continue on schedule
- Operations and maintenance activities
- Westbay wells rehabilitation continue



S1W Turnover from NR to EM Jan 27, 2022



Signing of the Memorandum of Agreement for turnover of the S1W from NR to EM Jan 27, 2022



Waste Type	Origin	Volume Remaining	Amount Shipped	Destination	Applicable Agreements
Transuranic and Mixed Low-Level Waste 	Site operations, Rocky Flats Plant, other DOE facilities	4,782 (CH-TRU) 219 (M/LLW)	45,989 (CH-TRU) 14,738 (M/LLW)	WIPP Licensed off-site disposal site	Idaho Settlement Agreement, Site Treatment Plan

## Accomplishments

- 101m<sup>3</sup> sludge treated
- 36 shipments to WIPP

## Status

- Continue processing sludge waste
- Certify and ship CH TRU waste to WIPP
- Continue RCRA closure of retrieval enclosure
- Continue M/LLW shipments
- Continue RH processing and certification

Year	WIPP Shipments
FY21	104/150
FY22	257
FY23	390
FY24	469
FY25	477
FY26	466
FY27	403
FY28	330
Totals	2942



Sludge processing in box line



Shipment to WIPP



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

## Plans and Accomplishments

Wet to dry transfers	FY21 Actual/Plan	FY22 Plan
EBR-II	49/49	12/87
ATR	12/22	22/27

Peach Bottom Fuel Vault transfers	FY21 Actual/Plan	FY22 Plan
	0/5	1/7

## Status

- Wet-to-dry fuel storage campaign ahead of schedule to meet 2023 milestone
- Receipt of 2<sup>nd</sup> transport cask
- Critical decision work is progressing for staging facility
- Continuing efforts towards the packaging demonstration



Peach Bottom equipment familiarization



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

## Accomplishments

- Retrieval technology maturation
- Full scale mockup testing
- Engineering design development

## Status

- Continue retrieval technology development
- Develop bin set 1 deactivation plan and closure strategy
- Prepare permit modification for bin set 1 retrieval
- Complete Analysis of Alternatives for disposition



Bin set 1 above grade structure



Calcine Solids Storage Facility



Waste Type	Origin	Volume Remaining	Amount Shipped	Destination	Applicable Agreements
Sodium-Bearing waste	De-Con of reprocessing facilities	~850,000 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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