



# Idaho Cleanup Project

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## *Advanced Mixed Waste Treatment Project Status Update*

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# ***Advanced Mixed Waste Treatment Project Mission***

***The U.S. Department of Energy's (DOE's) Advanced Mixed Waste Treatment Project (AMWTP) is committed to meeting all of the technical and regulatory requirements to safely retrieve, characterize, treat and package approximately 65,000 cubic meters of transuranic waste and shipping it out of Idaho to the Waste Isolation Pilot Plant in New Mexico.***

***Operations at AMWTP require the retrieval, characterization, treatment and packaging of transuranic waste currently stored at DOE's Idaho Site. The project's schedule is aligned with court-mandated milestones in a 1995 Governor's Settlement Agreement between the state of Idaho, the U.S. Navy and DOE to remove the waste from Idaho.***

## ***AMWTP Progress***

- **Cumulative:** Since initiating shipments in 1999, Idaho has safely shipped more than 45,500 m<sup>3</sup> of waste – out of approximately 65,000 m<sup>3</sup> of waste that was historically managed as transuranic waste – out of Idaho for disposal. *This volume includes:*
  - 37,250 m<sup>3</sup> of CH-TRU waste,
  - 8,250 m<sup>3</sup> of MLLW (historically managed as TRU waste)
- **Annual:**

	CH-TRU Shipped	MLLW Shipped	Total Shipped
– FY 2007	6,158 m <sup>3</sup>	21 m <sup>3</sup>	6,179 m <sup>3</sup>
– FY 2008	5,335 m <sup>3</sup>	2,254 m <sup>3</sup>	7,589 m <sup>3</sup>
– FY 2009	5,504 m <sup>3</sup>	2,778 m <sup>3</sup>	8,282 m <sup>3</sup>
– FY 2010	4,396 m <sup>3</sup>	2,007 m <sup>3</sup>	6,403 m <sup>3</sup>
– FY 2011	1,883 m <sup>3</sup>	307 m <sup>3</sup>	2,190 m <sup>3</sup>
- Since Idaho Treatment Group assumed responsibility for the AMWTP contract on October 1, 2011, ITG has shipped 1249 m<sup>3</sup> of CH-TRU waste to WIPP and 13 m<sup>3</sup> of low-level radioactive waste to Nevada Nuclear Security Site.

# ***Contractor Organization Advanced Mixed Waste Treatment Project***

- ***Idaho Treatment Group, LLC, (ITG).***
    - ***Comprised of Babcock & Wilcox, URS, Energy Solutions.***
  - ***President: Richard Raaz\****
  - ***Business Manager: Scott Raish***
  - ***Waste Programs: David Haar***
  - ***Plant Operations: Doug Greenwell\****
  - ***ES&H: Mark Wescoat\****
  - ***Counsel: Florence Phillips***
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- ***\*change in Key Personnel since assuming contract.***

## *Contract Status*

- *Request for Proposals last updated November, 2010.*
- *ITG assumed responsibility for contract on October 1, 2011.*
- *Because the procurement process extended over two and one-half years, several differences exist between the conditions at the facility that were provided in the Request For Proposal (RFP) and conditions that existed at time of contract takeover.*
  - *Existing waste volume*
  - *Labor rates*
  - *4-year versus 4 1/2-year contract*
- *DOE and ITG currently negotiating the effects of those differences on contract work-scope, schedule and budget.*
- *DOE acknowledged an interim project baseline for fiscal year 2012. When negotiations for those differences are completed (estimated by end of March 2012), a final project baseline will be established.*

## ***Retrieval Contamination Enclosure/Inner Contamination Enclosure (RCE/ICE)***

- ***Construction of Retrieval Contamination Enclosure (RCE) accomplished by previous contract.***
- ***DOE Readiness Assessment suspended in September, 2011***
  - ***Weaknesses noted in Conduct of Operations, Training, RadCon.***
- ***Personnel layoffs affected retrieval personnel.***
  - ***Workforce reduced by ~250 workers***
  - ***Retrieval workers replaced according to seniority***
  - ***Time required to retrain, rewrite procedures.***
- ***ITG presently conducting a Management Self-Assessment to determine readiness to proceed.***
- ***DOE Readiness Assessment will commence March 19, based on results of MSA.***

# *Retrieval Contamination Enclosure/Inner Contamination Enclosure (RCE/ICE)*



View of airlock under construction

North wall under construction



## *Sludge Treatment*

- *Previous method for organic/inorganic sludge treatment was not in accordance with ITG's proposal.*
  - *Waste was processed in the South Box-line, six drums at-a-time, using the Brokk manipulator.*
  - *4000-5000 drums remaining*
- *South Box-line was decontaminated of PCBs and returned to treating debris.*
- *ITG conducted alternative analysis for three options:*
  - *Treatment in ARP-V; Treatment inside storage module; Treatment inside RCE*
- *Preferred option is treatment in ARP-V*
  - *Has advantage of increased throughput*
  - *Use of Drum Processing Stations a proven technique*
  - *Potential problem with permitting: RCRA/CERCLA*
  - *Anticipate startup in FY2013.*



## *AMWTP Key Facilities*



- Treatment – 1
- Retrieval - 2
- Storage – 3
- Characterization – 4
- Payload – 5
- Shipping - 6