EM Packaging & Transportation Update

Council of State Governments
Midwestern Radioactive Materials Transportation Committee
December 7-8, 2010

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Highlights on Low Level Waste/Mixed Low Level Waste Disposition Efforts

- **American Recovery and Reinvestment Act (ARRA)** providing needed funding for solid waste disposition, soil and groundwater remediation, and facility decontamination and decommissioning projects
  - Increased volumes of LLW/MLLW are expected in next few years
- To ensure disposal plans are optimized, EM provided enhanced guidance to sites to ensure all disposal alternatives are evaluated
Highlights on LLW/MLLW Disposition Efforts

• Continued use of onsite disposal at large cleanup sites
• Continued optimized operations of DOE disposal facilities, especially for those wastes that cannot be disposed at commercial facilities
  – Nevada National Security Site (NNSS) [Formerly Nevada Test Site] operates as regional LLW and MLLW disposal facility
  – New site-wide EIS under development which will analyze continued use of NNSS as regional disposal facility
• Current Mixed Waste Disposal Unit at NNSS closes November 30, 2010
  – State of Nevada approved new mixed waste disposal cell in July 2010
  – Construction initiated in August 2010 and is proceeding ahead of schedule
  – Operation scheduled 2\textsuperscript{nd} quarter of FY 2011
  – RCRA storage permit under development
Where is DOE LLW+MLLW disposed?

- Based on the review of data for the first 6-months of FY 2010:
  - 92.1% of EM’s LLW+MLLW volume was disposed at the DOE site where generated
  - 6.7% of EM’s LLW+MLLW was disposed at the EnergySolutions Clive, Utah, commercial facility
  - 1.2% of EM’s LLW+MLLW was disposed at NTS

- In FY 2010 – completed ~17,000 off-site shipments
DOE’s Waste Materials Management Complex

Legend
- **●** DOE Generator Site (no on-site disposal facility)
- **○** CERCLA Disposal Facility
- **●** Sites are closed
- **△** LLW Operations Disposal Facility
- **■** MLLW Operations Disposal Facility
- **◇** Regional LLW Disposal Facility
- **★** Waste Isolation Pilot Plant (WIPP) for TRU disposal

Environmental Management

- safety
- performance
- cleanup
- closure
One year snapshot – What traveled thru the Midwest and where did it go?

**FY 2010 Rail Shipments**
- Energy Solutions
- ~533 railcars
- Paducah 36%
- MCP 62%
- OR/ETTP 2%

**FY 2010 Highway Shipments**
- to Energy Solutions
- ~270 trucks
- OR/ETTP 15%
- OR/ORNL 9%
- Paducah 19%
- Portsmouth 40%
- WVDP 4%
- SPRU 13%

**FY 2010 Highway Shipments**
- to NNSS
- ~988 trucks
- ANL 61%
- OR/ETTP OR/ORNL Paducah 6%
- OR/ETTP OR/ORNL 1%
- Paducah 8%
- Portsmouth 24%
What are we shipping?
Latest DOE LLW/MLLW Forecasts

• DOE updates its life-cycle LLW/MLLW forecasts annually
  – Information publically available in the Waste Information Management System (WIMS)
• Expect the next call for data letter out in a couple of weeks
• Nearly 4.3 million m³ of LLW/MLLW will be generated FY2010-2015
  – Vast majority targeted to be disposed on site
  – DOE plans to continue use of Nevada National Security Site and, as appropriate, commercial disposal
  – Some large volume TBD streams exist

WIMS can be found at http://wims.arc.fiu.edu/WIMS