

EM Packaging & Transportation Update



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

***Ella McNeil
Office of Packaging and
Transportation, EM-45
Office of Environmental Management***



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

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 2nd quarter of FY 2011
 - RCRA storage permit under development

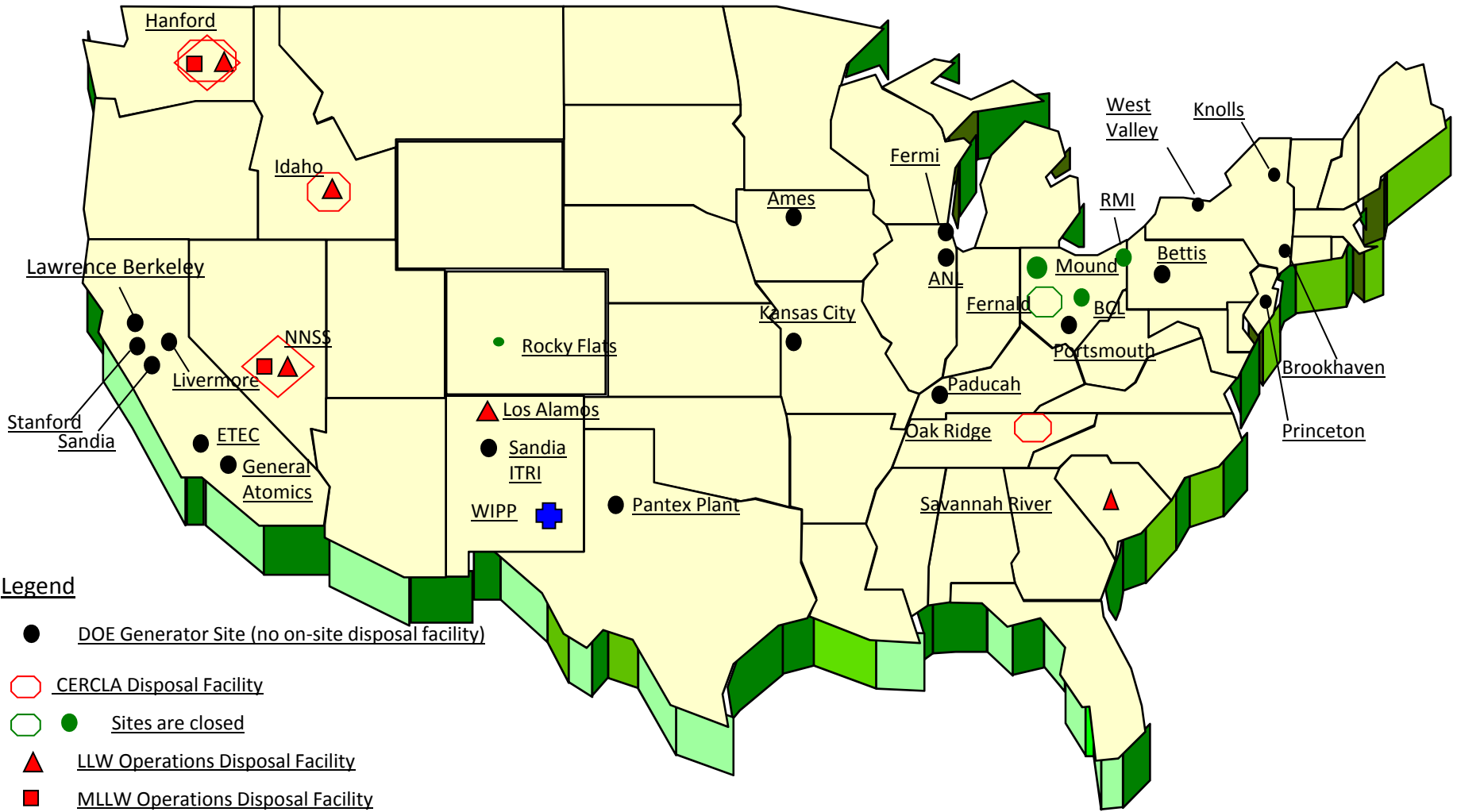


Where is DOE LLW+MLLW disposed?

- 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

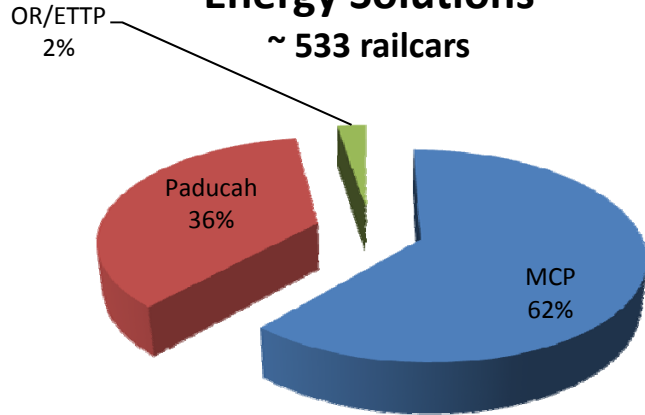


- Legend**
- DOE Generator Site (no on-site disposal facility)
 - ⬡ CERCLA Disposal Facility
 - Sites are closed
 - ▲ LLW Operations Disposal Facility
 - MLLW Operations Disposal Facility
 - ◇ Regional LLW Disposal Facility
 - ⊕ Waste Isolation Pilot Plant (WIPP) for TRU disposal

One year snapshot – What traveled thru the Midwest and where did it go?

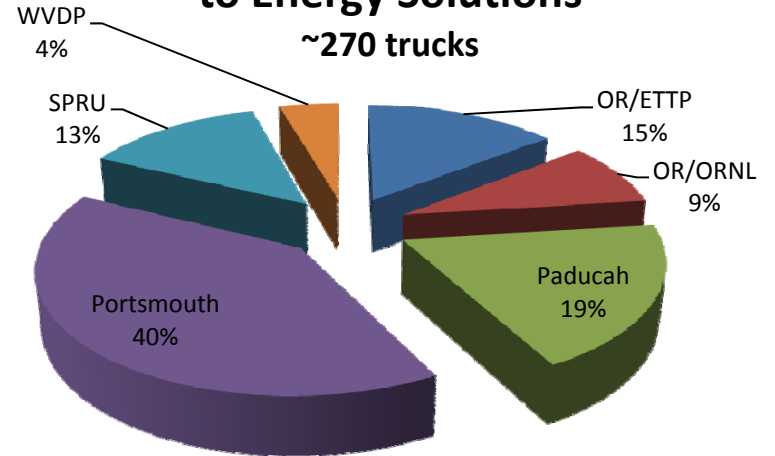
**FY 2010 Rail Shipments
Energy Solutions**

~ 533 railcars



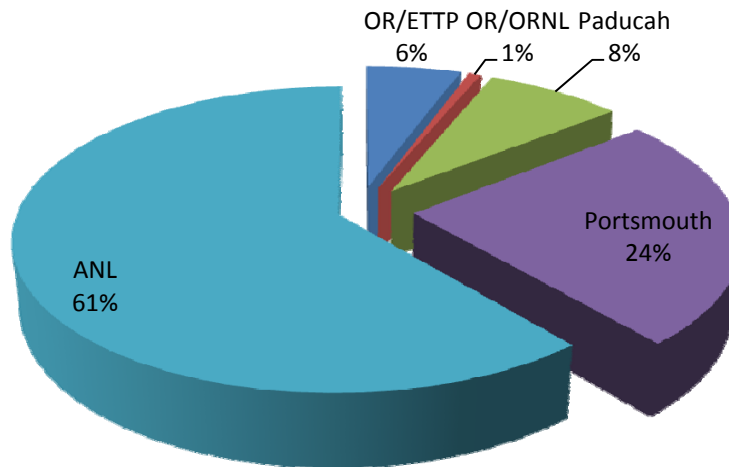
**FY 2010 Highway Shipments
to Energy Solutions**

~270 trucks



FY 2010 Highway Shipments to NNS

~988 trucks



What are we shipping?



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

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>

