

Update on DOE Packaging and Transportation Activities

Stephen O'Connor, Director
Office of Packaging and Transportation

Presented to:

Southern States Energy Board Radioactive Materials Transportation Committee



DOE's Waste Management **Priorities**

- Continue to manage waste inventories in a safe and compliant manner.
- Address high risk waste in a costeffective manner.
- Maintain and optimize current disposal capability for future generations.
- Develop future disposal capacity in a complex environment.
- Promote the development of treatment and disposal alternatives in the commercial sector.
- Review current policies and directives and provide needed oversight.

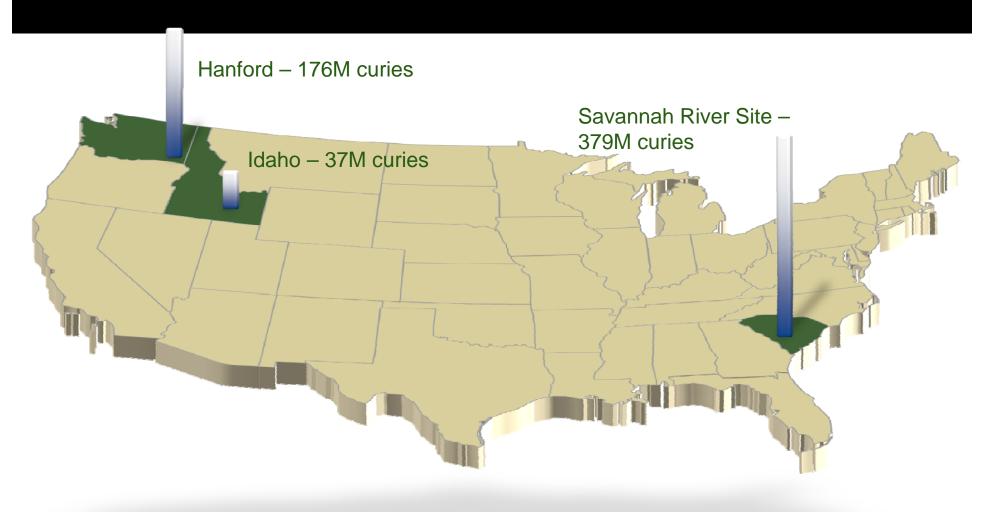




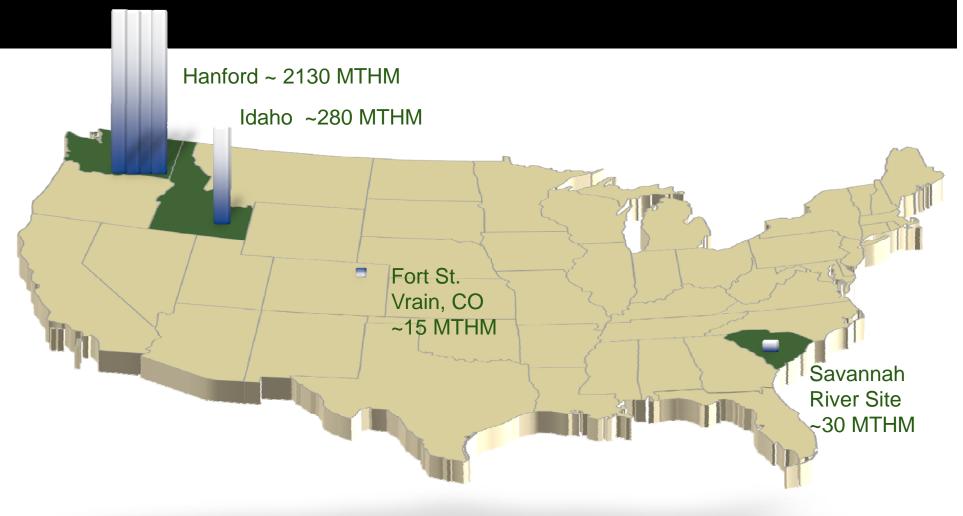




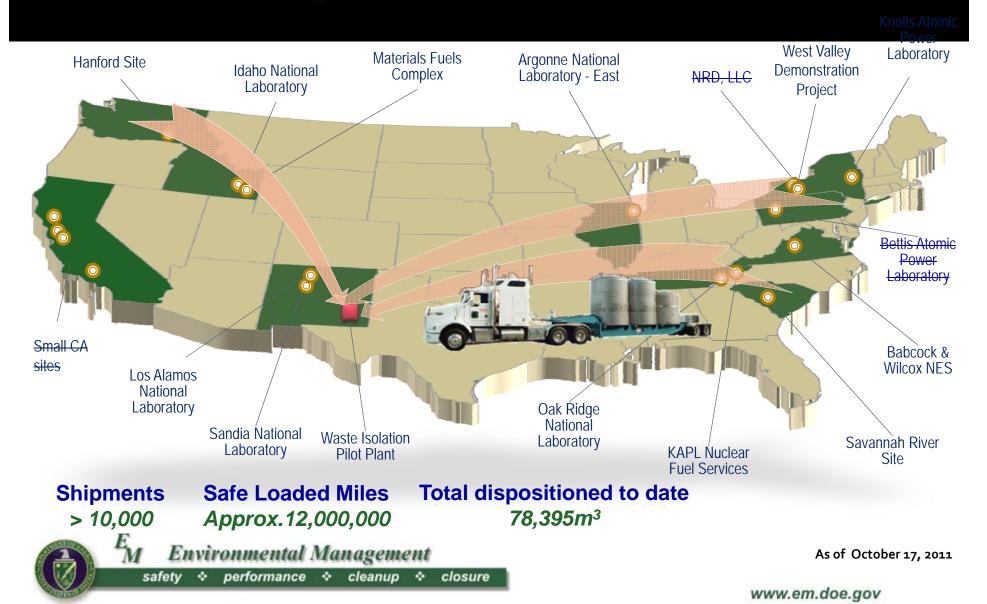
EM is treating radioactive tank waste . . .



... storing spent nuclear fuel...



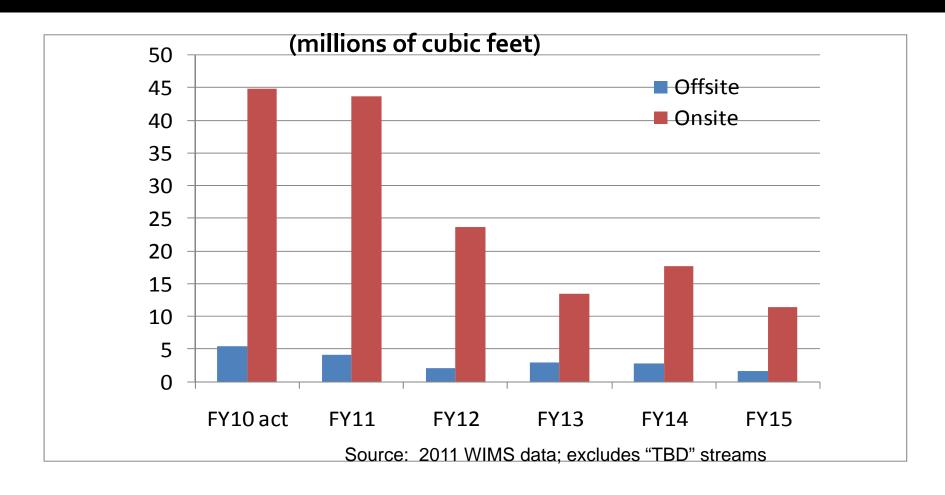
... disposing of transuranic wastes...



... and dispositioning mixed and low-level wastes.



LLW/MLLW Forecast Trends



Shipments by the numbers...

	FY 2009	FY 2010	FY 2011	
TRU Waste	970	1,180	1,070	
LLW	4,800	16,500	16,400	
MLLW	530	480	400	
Other	400	640	1,030	
Total	6,700	18,800	18,900	

ARRA funding pushed shipment numbers up in FY 2010 and FY 2011



Completed the DUO Shipments

- ~ 9,400 containers of DUO were sent from SRS to NNSS for disposal
- Shipments began in January 2011, and were completed ahead of schedule (ARRA funding)
- Final shipment was made on July 27, 2011
- Total of 391 shipments without incident







National Transportation Stakeholders Forum

- The NTSF completed its 2nd meeting in May 2011
- 2012 Planning Committee established
 - Representatives from the tribes, 4 regional groups, and NCSL, DOE, and NRC
 - SSEB will serve as the host for the 2012 meeting
- Working Groups established:

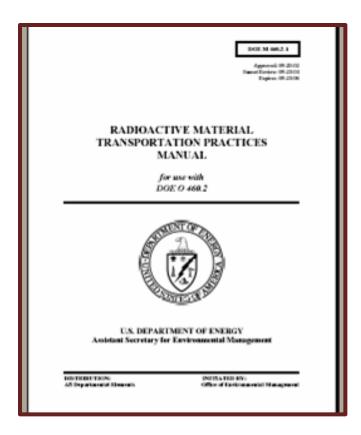
Financial Guidance	PSR Improvements			
Notification	Communications			
Safeguards Information Training	WIPP Security Communications Protocol			

- Just completed our 4th webinar
- All information can be found at <u>www.ntsf.wikidot.com</u>

What does the EM realignment mean to Packaging and Transportation?

- NNSA has an Office of Packaging and Transportation
 - So does EM
- Efforts underway to review activities of both organizations with a focused goal of:
 - Eliminating redundancies and overlap of responsibilities
 - Establishing clear lines of responsibilities
 - Reviewing current systems and programs to determine the continued need
- End result could impact the location of the DOE's packaging and transportation functions.

Revision Plan for DOE M 460.2-1A



- Manuals are being eliminated from Directives System
- Requirements from Manual will be incorporated into revision of DOE Order 460.2, Departmental Materials Transportation and Packaging Management
 - Remaining information from Manual will be placed in the DOE Guide 460.2
- Awaiting outcome of realignment decisions to develop draft document



DOE Order on Physical Protection

- Convened a development team
- Schedule parallels the NRC
 - Projected to complete work in 3Q or 4Q of FY2011 to ensure equivalency
- <u>Purpose</u>: Establish physical protection requirements for the transportation of irradiated reactor fuel.
- <u>Cancellation</u>: Cancels DOE O 1540.4 dated 03-08-89 and Section 6.2.1 of DOE M 460.2-1A dated 06-04-08.
- <u>Applicability</u>: Applies to all DOE elements for physical protection of unclassified irradiated reactor fuel in transit.
- <u>Requirements</u>: Details the security/physical protection requirements that will be followed during transport.
- <u>Responsibilities</u>: Designates the responsibilities for the program offices, field offices and contractors of unclassified irradiated reactor fuel in transit.





Update on Transportation Emergency Preparedness Program

Ken Keaton Region 1 & 3 TEPP Coordinator TRG, Inc.



www.em.doe.gov

FY 2011 TEPP Training



- 71 classes delivered with the assistance of TEPP Central Operations
- 36 classes were delivered by WIPP
- 17 classes were delivered by State responders

Regions	# Classes	# Students	# Compressed	# TTT	# Full	# Partial	#TMERRTT	# CECBEMS
1, 3 & 4	71	1096	261	117	540	90	88	254
2 & 5	34	525	279	55	174	17	0	224
6,7&8	18	235	168	38	28	1	0	116
Totals	123	1856	688	210	737	108	88	595





Regional Training Statistics



As of close of business on October 4:

- Region 1 = 677 people
- Region 2 = 297 people
- Region 3 = 295 people
- Region 4 = 124 people
- Region 5 = 228 people
- Region 6 = 103 people
- Region 7 = 132 people
- Region 8 = o people
- Total Students in Database for FY 11= 1,856



Historical Database Statistics



- FY 04 = 1011 people
- FY 05 = 1313 people
- FY o6 = 1639 people
- FY 07 = 2073 people
- FY o8 = 2698 people
- FY 09 = 2828 people
- FY 10 = 3241 people
- FY 11= 1856 people







TEPP External Partnerships



- Partnered with FEMA
 Radiological Series TTT in
 Anniston, AL
- Finalized FEMA Q&A Booklet
- Worked on revision of 2008 ASTM E2601, Standard Practice for Radiological Emergency Response





Continue to Partner with the Railroads on Training



- The Brotherhood of Locomotive Engineers and Trainmen (BLET) is still active in using their version of MERRTT; "Rail Union MERRTT"
- TEPP supported 3 BLET sessions this year at the National Labor College



TEPP Exercises



- Finalized revision of the exercise scenarios to make them HSEEP compliant
- TEPP exercise program is just one part of an all-inclusive preparedness program:
 - Upfront planning tools
 - Comprehensive training program
- Full scale joint response exercise conducted between the Laguna and Acoma Pueblos with Cibola County participating in a support role.



Operation Louisville Full Scale Exercise Conducted



- October 27, 2011, at the Louisville Fire Training Academy in Louisville, KY.
- The scenario simulated a transportation accident involving a van carrying radioactive sources and a train.
 - Live radioactive sources were used during the exercise. Dose rate readings during the exercise were <u>not</u> simulated, and contamination readings in the decon corridor were simulated using thorium lantern mantles.
- State of Kentucky has decided to adopt MERRTT as the commonwealth's radiological training program for responders





Hospital Training



- TEPP worked with FEMA to update their G-346 Hospital Course
- Hospital training used in preparation for TEPP exercises (with hospital play)
 - Hospital training can be provided at the request of states









Radiation Specialist Training



- Developed to meet the advanced needs of responders and address the new competencies found in the NFPA 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents
- Teamed with Region 6 RAP to deliver a RAD Specialist training course





