



# DOE Shipment Activities: What We Accomplished And A Look Forward.

Presented to:

## National Transportation Stakeholders Forum

Stephen O'Connor, Director  
Office of Packaging and Transportation  
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# Shipments by the numbers. . .

	FY 2009	FY 2010	FY 2011*
TRU Waste	970	1,180	450
LLW	4,800	16,150	7,170
MLLW	530	420	170
Other	400	250	10
<b>Total</b>	<b>6,700</b>	<b>18,000</b>	<b>7,800</b>

• \*Thru 2<sup>nd</sup> quarter of FY 2011

ARRA funding pushed shipment numbers up in FY 2010

Anticipate shipment numbers to continue upward trend thru end of CY 2011

# FY 2011 – What Are We Shipping?

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- LLW and MLLW to NNSS
- MOAB
- LLW to EnergySolutions

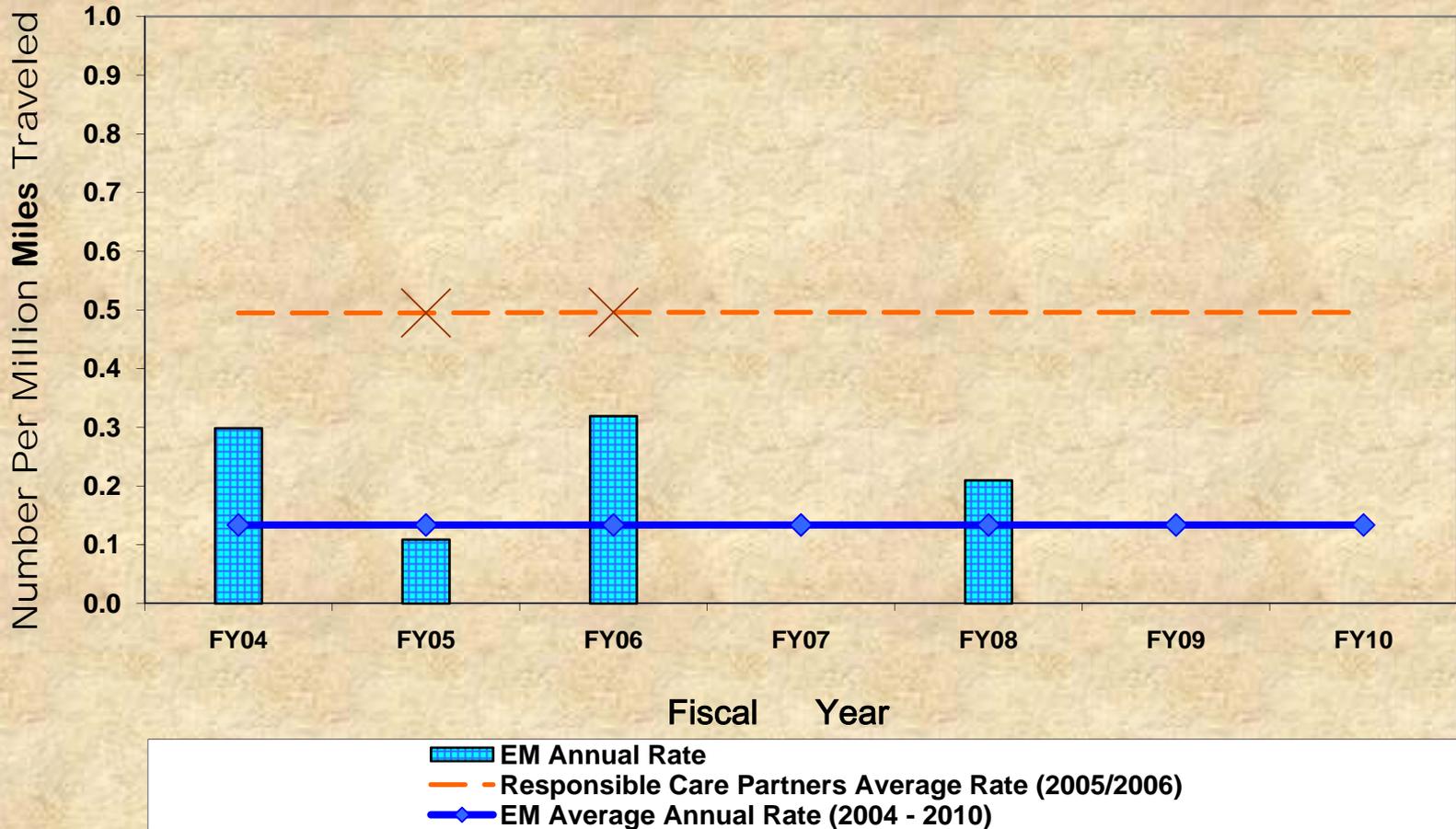


**EM Environmental Management**

safety ❖ performance ❖ cleanup ❖ closure

[www.em.doe.gov](http://www.em.doe.gov)

# Reportable Accident Rate Comparison



# *What shipments are planned?*

- Provided to POCs thru the Prospective Shipment Report
  - Updated twice a year
  - Non-classified shipments included in the PSR:
    - High volume shipments of LLW and MLLW scheduled for an average of five or more truckload shipments per week between a specific origin and destination for a period of three or more months
    - Rail shipments scheduled for an average of 60 railcars or more per month between a given origin and destination for a period of three months or more
    - TRU waste shipments
- The Waste Information Management System (WIMS) identifies waste streams for each site and projected shipment information.
  - You can access WIMS at <http://wims.arc.fiu.edu/wims/>

# Plans for future shipments. . .

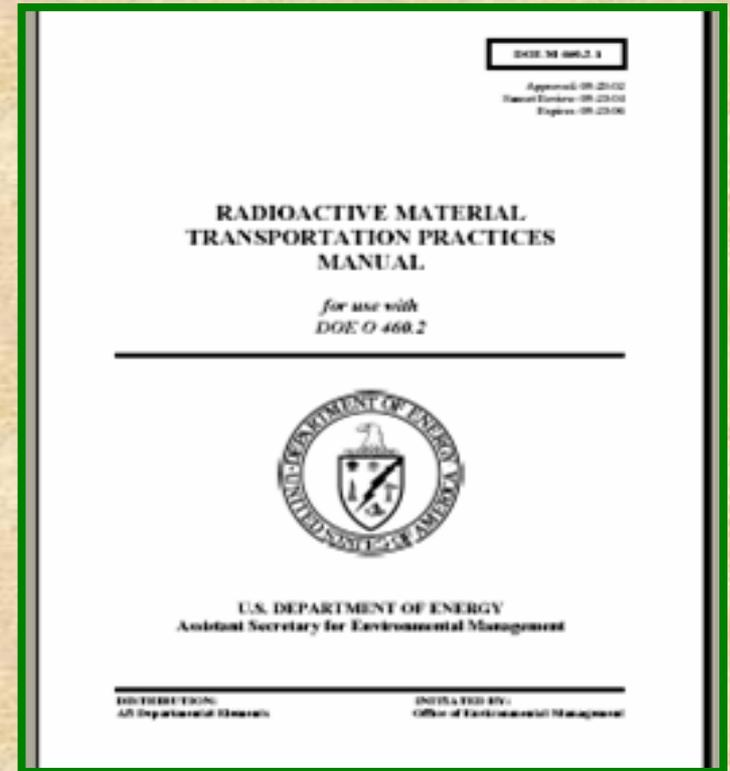
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- Waste Incidental to Reprocessing (WIR) Draft Evaluation for WVDP Melter
- Depleted Uranium Oxide (DUO) from Portsmouth and Paducah

# DOE Manual 460.2-1

- 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
- Expected completion by early CY 2012



# DOE Order on Physical Protection

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- Convened a development team
  - includes operational and security specialists of EM, GC, HS, NNSA, Bettis, AL, ID,OR, SR.
- Developed schedule that is a parallel to the NRCs.
  - Projected to complete work in 3Q or 4Q of FY2011 to ensure equivalency
- Purpose: Establishes physical protection requirements for the transportation of irradiated reactor fuel.
- Cancellation: Cancels DOE O 1540.4 dated 03-08-89 and Section 6.2.1 of DOE M 460.2-1A dated 06-04-08.
- Applicability: Applies to all DOE elements for physical protection of unclassified irradiated reactor fuel in transit.
- Requirements: Details the security/physical protection requirements that will be followed during transport.
- Responsibilities: Designates the responsibilities for the program offices, field offices and contractors of unclassified irradiated reactor fuel in transit.

# Backup Slides

Start Date	End Date	Origin	Destination	Pass through States	Number of Shipments and Mode	Material	Package Type	Frequency/ Additional Information
4/1/2011	9/30/2011	LANL, NM	WIPP	NM	105 Trucks	TRU (CH only)	TP	As noted on 8-week schedule
4/1/2011	9/30/2011	INL, ID	WIPP	ID, UT, WY, CO, NM	426 Trucks	TRU (CH and RH)	TP/HP/72-B	As noted on 8-week schedule
4/1/2011	9/30/2011	SRS, SC	WIPP	SC, GA, AL, MS, LA, TX, NM	120 Trucks	TRU (CH only)	TP	As noted on 8-week schedule
4/1/2011	9/30/2011	ORNL, TN	WIPP	TN, AL, MS, LA, TX, NM	54 Trucks	TRU (CH and RH)	TP/72-B	As noted on 8-week schedule
4/1/2011	9/30/2011	ANL, IL	WIPP	IL, IA, NE, WY, CO, NM	50 Trucks	TRU (RH only)	72-B Cask	As noted on 8-week schedule
4/1/2011	9/30/2011	RL, WA	WIPP	WA, OR, ID, UT, WY, CO, NM	91 Trucks	TRU (CH and RH)	TP/72-B	As noted on 8-week schedule
7/1/2011	9/30/2011	BAPL, PA	WIPP	PA, WV, MD, VA, TN, AL, MS, LA, TX, NM	5 Trucks	TRU (RH only)	72-B Cask	As noted on 8-week schedule
8/1/2011	9/30/2011	SNL, NM	WIPP	NM	6 Trucks	TRU (RH only)	72-B Cask	As noted on 8-week schedule
7/1/2011	8/30/2011	ANL, IL	INL	IL, IA, NE, WY, UT, ID	4 Trucks	TRU (CH only)	TP	Consolidation at INL
5/1/2011	5/30/2011	LBNL, CA	INL	CA, NV, UT, ID	1 Truck	TRU (CH only)	TP	Consolidation at INL
6/1/2011	6/30/2011	NRD, NY	INL	NY, PA, WV, OH, IN, IL, IA, NE, WY, UT, ID	4 Trucks	TRU (CH only)	TP	Consolidation at INL
5/1/2011	10/31/2011	PORTS, OH	NNSS, NV	OH, KY, TN, AR, OK, TX, NM, AZ, NV	130 Trucks	MLLW and LLW	IP or Type A as required by DOT	Five shipments per week
5/1/2011	10/31/2011	PGDP, KY	NNSS, NV	KY, IL, MO, KS, CO, NE, IA, WY, UT, NV	76 Trucks	MLLW and LLW	Containers and Cargo Boxes	Projection includes Newly Generated Waste, ER, D&D, and ARRA projects.
5/1/2011	10/30/2011	Moab, UT	Crescent Junction, UT	Utah	4,901 Rail	Residual radioactive materials, uranium mill tailings	LSA-II non-fissile or fissile excepted, UN3321	360 shipments per week until ~7/15/11, decreasing to 96 shipment (24 shipments/day, 1 shift/day, 4 days/week).
6/1/2011	8/31/2011	Oak Ridge, TN	NNSS, NV	AK, CA, TN, OK, TX, NM, AZ, NV	75 Trucks	LLW	Boxes	Six shipments per week. (ARRA Project)

# Possible Routes for LLW/MLLW on PSR



- Legend**
- Truck
  - Rail
  - Shipping/Receiving Sites
  - Tribal Land

# Transportation Routes

