U.S. Department of Energy Environmental Management Program

Headquarters Outlook on LLW/MLLW Disposition

NTS Generators Workshop April 2008

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EM Funding History & Projections

\$ in billions



FY09-12 subject to change

Out year targets vs. current baseline requirements



^{*} FY 2006/2007 baseline data not available



EM strategies for bridging the gap

- "Near-term baselines"
 - Independently reviewed to support validation
 - Formal approvals by Assistant Secretary for Environmental Management (as the Acquisition Executive)
 - Provides basis for tracking future cost and schedule changes
 - Due to available resources and funding
 - Due to policy and priority changes
- Five Year Plans
 - Informed development of the FY09 budget request
- Out year planning initiative
 - Will inform FY10 budget formulation
 - Developing detailed analytical tools
 - Multiple "cases" under development



LLW/MLLW ~ Issues and Priorities

- Off-site waste shipments to Hanford remain suspended
 - Pending completion of the Hanford Tank Closure & Waste Management EIS and subsequent decisions
- DOE disposal capacity for MLLW (at NTS) ends in Nov 2010
 - Future alternatives are being evaluated, but remain uncertain
- Near term disposal plans will likely be constrained, and opportunities to optimize costs are critical to continued disposal progress
 - Increased emphasis of near term planning and cost-benefit analyses
 - Economies of scale are being sought
- Forecast volumes are somewhat uncertain
 - For example, some higher activity MLLW volumes "fall out" of TRU inventory



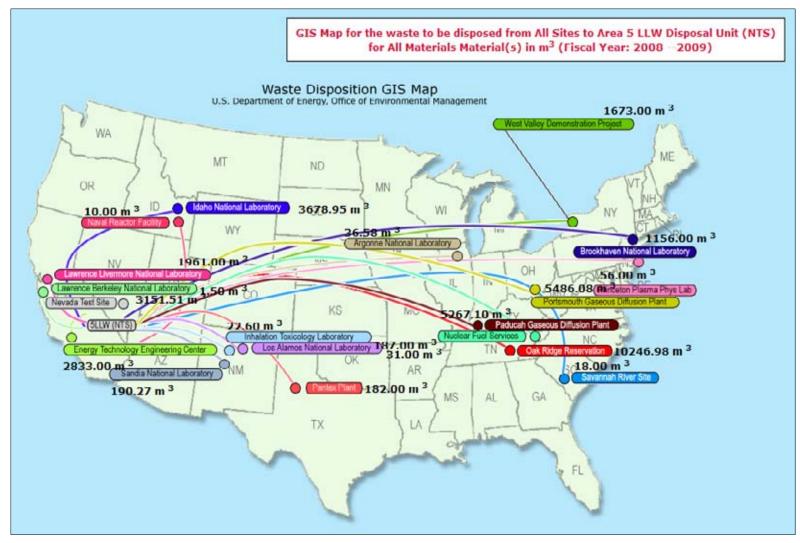
Complex-wide integration and improved disposition planning are critical

Established DOE LLW Corporate Board

- First meeting January 2008
- Identified issues and topics for June 2008 meeting
- Approved bylaws
- Corporate efforts target:
 - Optimized use of DOE and commercial facilities
 - Additional focus on and review of cost-benefit analyses
 - Complex-wide contracting
 - Deployment of integrated planning tools to increase support for solid waste disposition projects



Updated data: Projected LLW Shipments to NTS (and MLLW thru 2010)



Headquarters Perspectives on....

- NTS facilities
- The past year
- Funding for disposal at NTS
- Forecasting volumes for disposal at NTS
- Targeted programmatic improvements
 - Related to NTS
 - Complex-wide
- Future disposal needs
- Commercial developments
- Other programmatic factors



Additional Information



LLW/MLLW Treatment Update

- Toxic Substances Control Act Incinerator (TSCAI) at Oak Ridge continues to operate as DOE-wide treatment solution
 - TSCAI burned over 1.44 million lbs of waste in FY07
 - To date, TSCAI operated only a few weeks in FY08, due to extended outage for maintenance and repairs
- Life-cycle burn plan under HQs configuration control
 - Reflected operations thru FY09
 - Under revision currently to reflect outage and replan wastes that must be treated prior to closure in late FY09
- Market research and early acquisition planning underway to solicit commercial treatment services
 - Highlights need for thermal treatment to "replace" TSCAI
 - Includes any treatment process needed to address remaining legacy and forecast generation

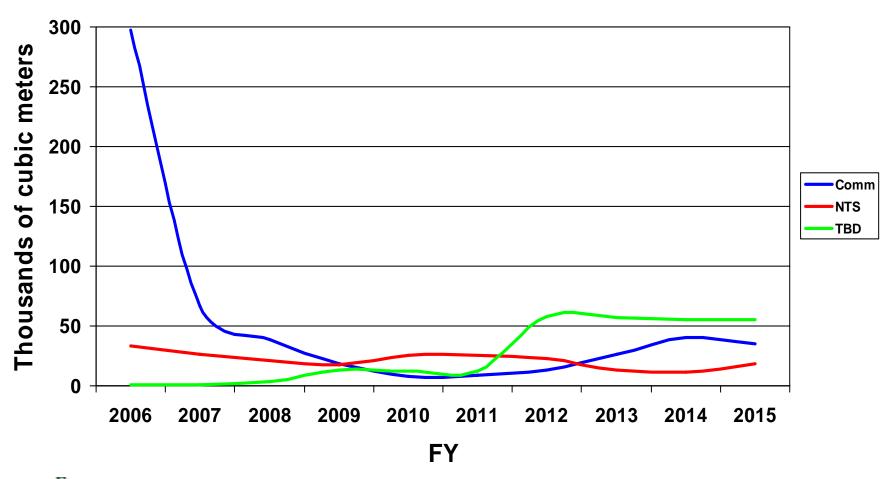


Low-Level/Mixed Low-Level Waste Management

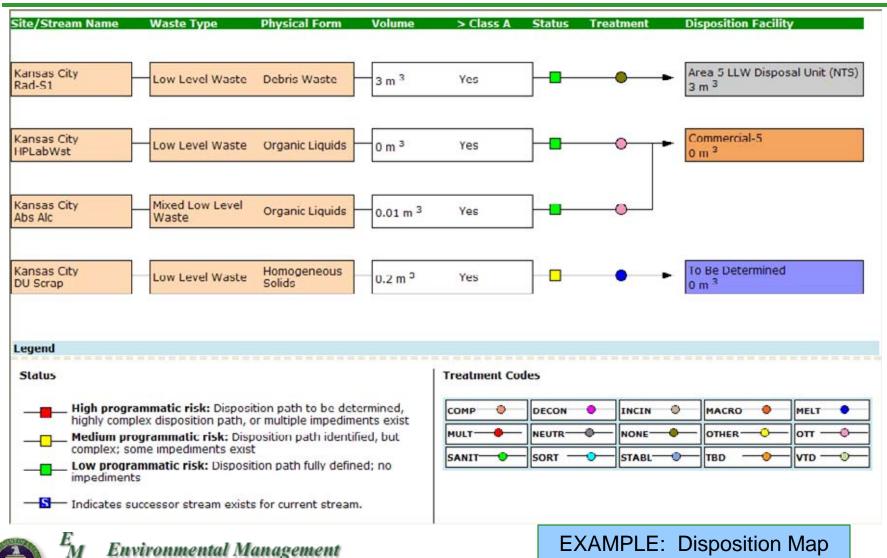
- DOE-wide life-cycle waste forecasts reinstated
 - Waste Information Management System portrays data in disposition and geographic map formats http://wims.arc.fiu.edu/WIMS
 - 3rd annual life-cycle update for LLW/MLLW in WIMS; TRU to be added soon.
- Development of disposition planning tools continues
 - "Mileage charts"
 - Complex-wide shipping schedules
 - Problematic waste streams and risk mitigation plans
 - Waste management summaries "8,000 ft waste story"
 - Issue matrix
 - Revised guidance on cost-benefit analysis
 - Oak Ridge projects are being used to pilot new detailed tools
- National LLW/MLLW Disposition Strategy developed
 - Rev. 0 in 2006; Rev 1 under review
- EM working to optimize use of DOE waste management assets
 - Nevada Test Site disposal facilities and TSCA Incinerator
- EM pursuing reliable and cost-effective commercial services, as well
 - Planning for complex-wide contracts for commercial treatment and disposal



Volume of LLW/MLLW Disposed Offsite has Declined



Our planning tools identify "problematic" wastes



safety & performance & cleanup & closure

Presentation of Waste Forecast Data in WIMS: Shipments from Idaho National Laboratory



WIMS now includes transportation planning information

Shipping information for the Waste forecast to be disposed from All Sites to Area 5 LLW Disposal Unit (NTS) for All Materials Material(s) (Fiscal Year: 2008 --2038 To 2050)

Row No	Reporting Site	Disposition Facility Name	Waste Stream Name	Field Stream ID	Waste Type	Rail 2008	Truck 2008	<u>Intermodal</u> 2008	Rail 2009	Truck 2009	Intermodal 2009	Row No
73	Portsmouth	Area 5 LLW Disposal Unit (NTS)	PORTS LLW.RD-102_C	LLW03	Low Level Waste	0	0	288	0	0	0	73
74	Portsmouth	Area 5 LLW Disposal Unit (NTS)	PORTS LLW Small Cylinders	LLW SmallC	Low Level Waste	0	10	4	0	0	0	74
75	Portsmouth	Area 5 LLW Disposal Unit (NTS)	PORTS RCRA LLW X-770 Pad	PORTS RCRA	Low Level Waste	0	0	5	0	0	0	75
76	Portsmouth	Area 5 LLW Disposal Unit (NTS)	PORTS RCRA LLW Process Equipment (DMSA 11&12)	RCRA	Low Level Waste	0	0	0	0	28	0	76
77	Portsmouth	Area 5 LLW Disposal Unit (NTS)	PORTS LLW Depleted Uranium Metal	PORTS LLW	Low Level Waste	0	52	0	0	0	0	77



NEW!



