



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

Office of Environmental Management

Frank Marcinowski
Deputy Assistant Secretary for Waste Management

September 2, 2015

Waste Disposition Updates

❖ Waste Disposition Updates

Nevada

- ❖ Continued soil and groundwater remediation activities -- including characterization and monitoring of underground nuclear test contamination, cleanup of above-ground industrial sites and surface soil contamination
- ❖ Nevada National Security Site continues to serve an important cleanup mission as regional disposal facility for DOE LLW/MLLW:
 - ❖ FY14 Disposal: 1,269,000 cubic feet
 - ❖ FY2015 Forecast: 1,651,000 cubic feet
 - ❖ FY2015 to date: 76 percent of forecast
- ❖ Continuing working group discussions with state of Nevada on unique waste streams



Disposal Forecast at NNSS FY 2015 (cubic feet)

Generator Site	*FY 2015 Actual (ft3)	**FY 2015 Actuals + Remaining Projected Forecast for September-2015 (ft3)
Portsmouth GDP (OH)	543,827	627,918
Oak Ridge Reservation (TN)	126,540	164,507
Oak Ridge NNSA/Y-12 (TN)	118,422	130,672
Los Alamos National Lab (NM)	33,282	52,861
Idaho Site (ID)	125,916	138,122
Livermore Nat'l Lab (CA)	45,684	48,572
Paducah GDP (KY)	5,465	5,465
NNSA/Nuclear Fuel Services (TN)	39,506	47,001
Onsite NNSS (NV)	13,348	13,348
Savannah River (SC)	535	1,075
Berkeley	0	0
West Valley (NY)	9,078	9,078
All other sites	<u>57,281</u>	<u>66,245</u>
Total	1,118,884	1,304,864

❖ Forecasting supports operational planning and is updated quarterly.

* Actual volumes thru 8/23/15

** FY 2015 Actuals + Remaining Projected Forecast for September.

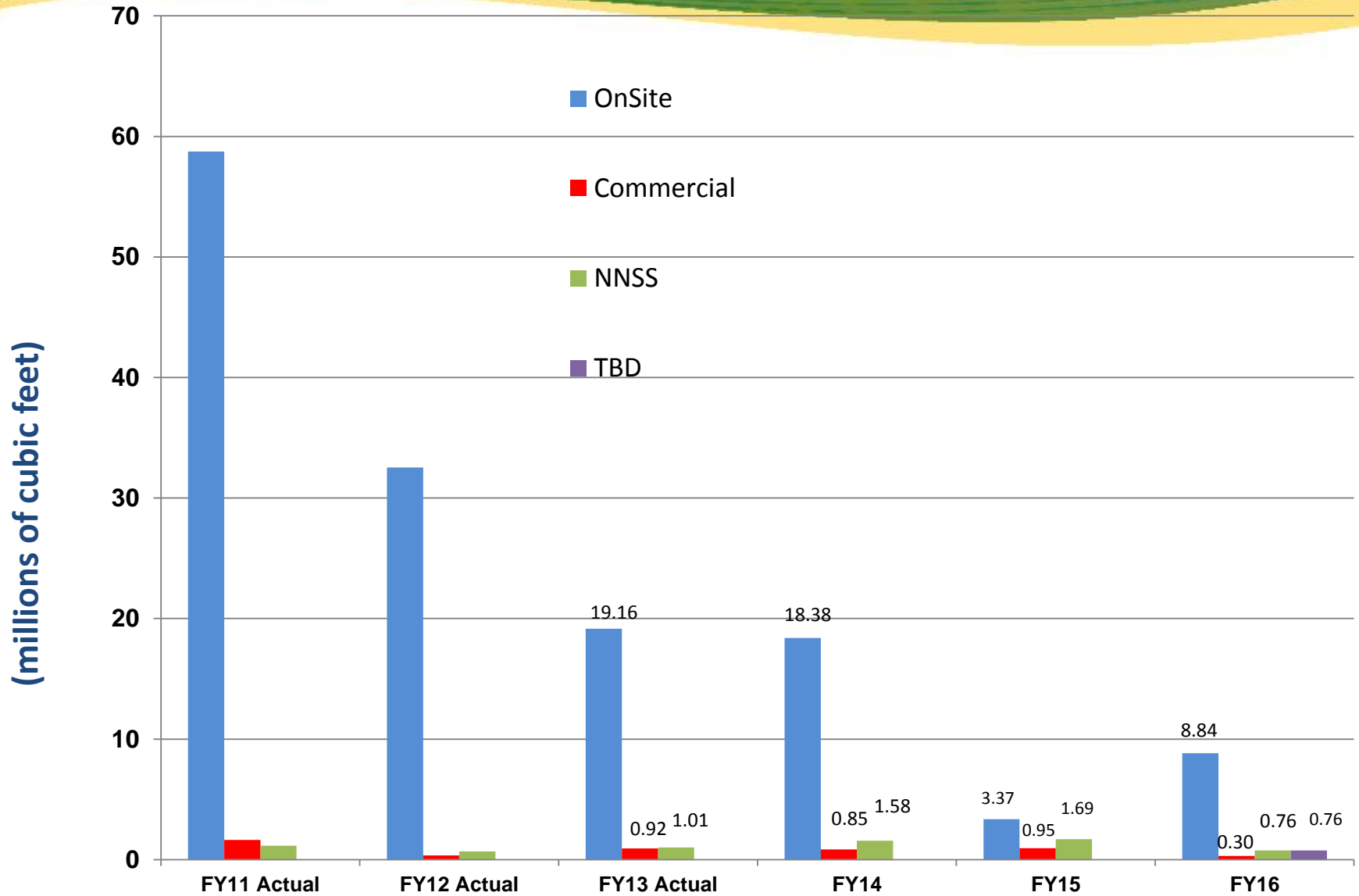
Commercial Disposal Options

- ❖ DOE policy supports consideration of commercial disposition options in addition to DOE options, when compliant, cost effective, and in the best interest of the U.S. government
- ❖ **EnergySolutions (Clive, Utah)**
 - ❖ Accept Class A LLW and MLLW; 11e(2); NORM
 - ❖ Offers rail access, onsite treatment, and favorable bulk waste handling and disposal
- ❖ **Waste Control Specialists LLC (Andrews County, Texas)**
 - ❖ Multiple disposal facilities/licenses
 - ❖ Hazardous/exempt; 11e(2); NORM
 - ❖ Texas Compact Class A, B and C LLW – non-DOE waste
 - ❖ Federal Waste Facility Class A, B, and C LLW/MLLW – DOE waste
 - ❖ Offers onsite rail access, onsite treatment and storage capabilities

DOE LLW/MLLW Forecasts

- ❖ DOE updates its life-cycle LLW/MLLW forecasts annually. EM coordinates collection of DOE-wide data with other Program Offices – NNSA, SC, NE, and Naval Reactors
- ❖ This information publically available in the Waste Information Management System (WIMS) maintained by the Florida International University (FIU)

Complex-wide LLW/MLLW Disposal



Key Waste Management Initiatives

- ❖ Implementing efforts to strengthen DOE's oversight of DOE disposal facilities and its waste management programs
- ❖ Continuing to seek opportunities to optimize waste generation, treatment, transportation and disposal
- ❖ Working with EFCOG Waste Management Group on efforts to integrate waste disposition efforts (such as LLW and TRU Corporate Boards)
- ❖ Continuing collaboration with stakeholders and industry is key to continued success

- ❖ EM mission success over last 25 years
- ❖ Significant cleanup challenges ahead
- ❖ Mission innovation → smarter and safer mission execution
 - New technologies
 - Innovative solutions