



# Y-12 WASTE MANAGEMENT FY 2014 & FY 2015 UPDATE

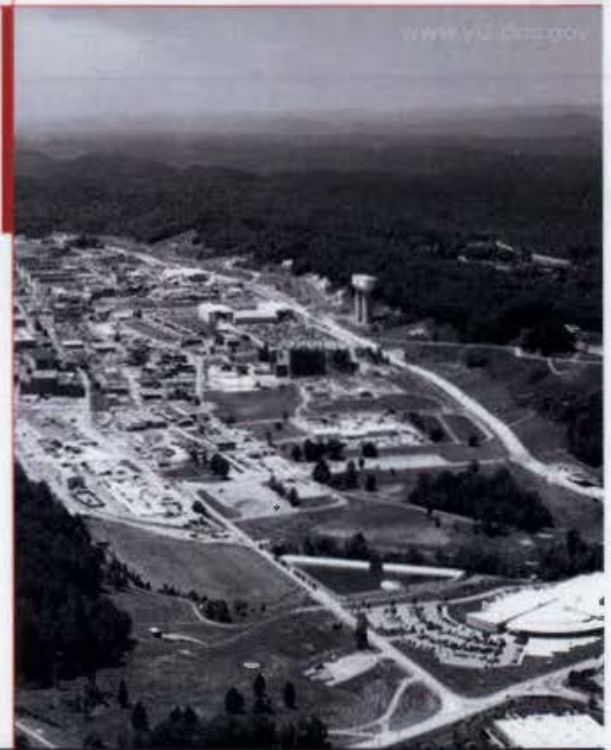
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EFCOG WM Working Group  
Waste Management Symposium

March, 2014

[www.y12.gov](http://www.y12.gov)



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Name: (Enter Name) *Matthew Miller*  
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# Y-12 Mission Scope & Special Projects

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- Mission Scope
  - Design, certification, testing, and surveillance
  - Uranium operations and weapons secondary and case fabrication
  - Weapons assembly/disassembly production
  - Nuclear nonproliferation
  - Counterterrorism
  - Infrastructure management and maintenance
- Special Projects
  - Consolidating operations
  - Modernizing facilities and infrastructure
  - Deactivation and demolition of ~3.2 million ft<sup>2</sup> of excess facilities
    - NNSA scope vs. EM scope uncertain

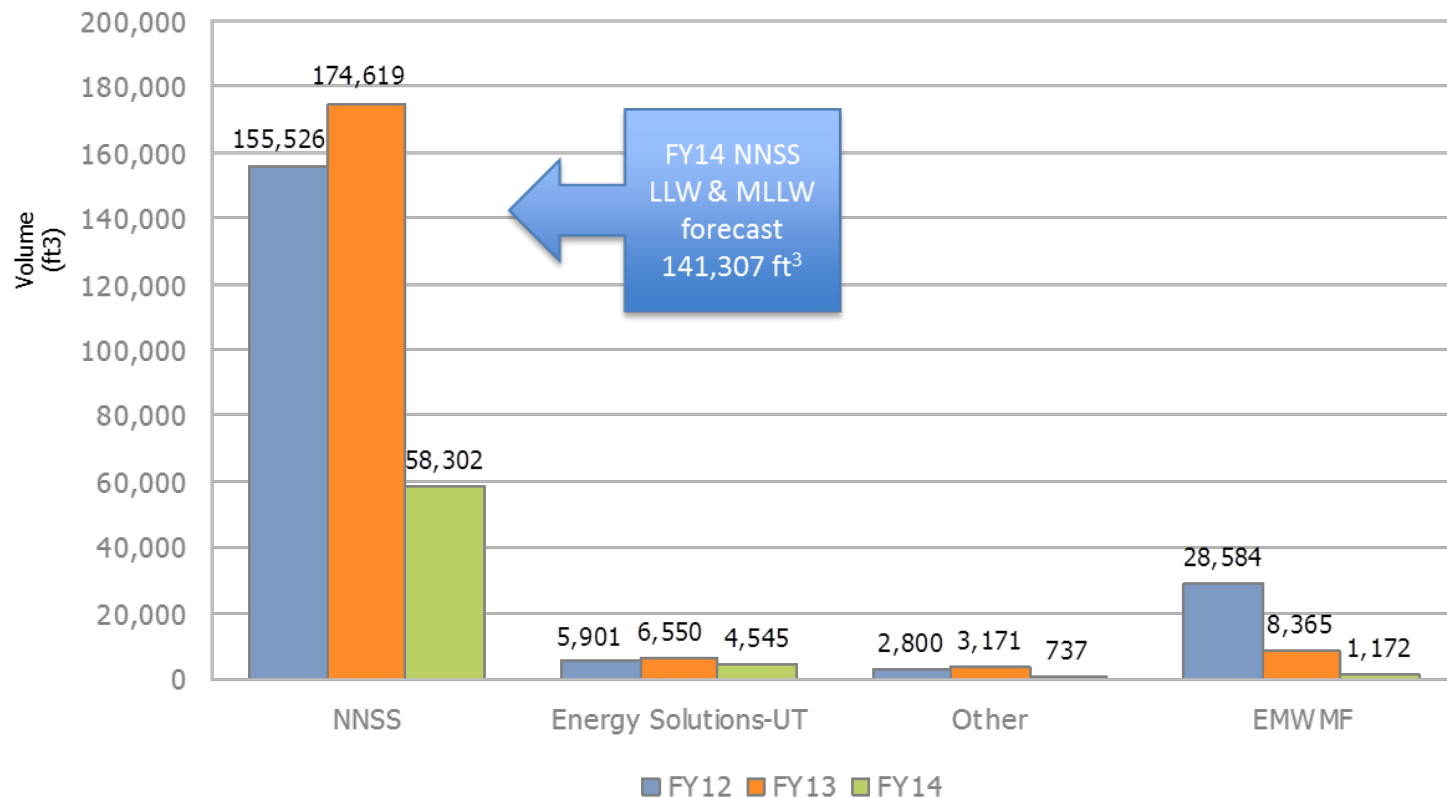
# FY 2014 and FY 2015 Projects and Forecast

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- Majority of weapon and nuclear non-proliferation programmatic scope is executable within budget
  - Production waste generation for treatment & disposal at NNSS, EMWMF, Perma-Fix, EnergySolutions, & Clean Harbors
    - Excess parts, equipment, and chemicals (Includes classified)
    - Non-recoverable STP residues > Economic Discard Limit
    - Classified RCRA Liquids (waste stream began FY13)
    - Classified Material Separation (proposed FY15 execution)
    - Stack 11 wastewater (~500K gallons per year)
- Facility Disposition Program
  - Deactivation and legacy facility unneeded materials and chemicals
    - Excess parts and equipment (Includes classified and CERCLA)
    - Alpha-5 risk reduction
    - Ancillary facility demolition
    - Disposition of legacy site materials

# FY 2014 and FY 2015 Projects and Forecast

- Solid & Liquid Waste Management & Annual Waste Treatment & Disposal
  - Ship ~190,000 ft<sup>3</sup> LLW, MLLW, and HW yearly (Shipped 65K ft<sup>3</sup> YTD)
  - Accept ~850,000 gallons of WW yearly (Processed 403K gallons YTD)
  - Liquid Waste Management RFP – Plan to issue March 6, 2014



# FY 2014 and FY 2015 Challenges

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- Y-12 Omnibus Bill allotment is \$8M less than President's budget request
- Schedule impacts due to FY14 budget uncertainties (first 5 months operating \$120M below OB funding)
- Delay in Y-12/Pantex Contract award
- Facility Disposition Program
  - Deactivation of legacy infrastructure challenged due to budget uncertainties
  - Division of responsibilities for transfer of legacy facilities to EM
  - Expenditure of NNSA funding on non-mission scope
    - Alpha-5 risk reduction
    - Ancillary facility demolition
    - Additional funding ~\$5M/yr beginning in FY15?

# FY14 Legacy PCB Roller Assembly Disposal

- Disposition of PCB-Rad rolling mill assemblies
  - > 500 ppm PCB concentration
  - 9 - 26g U-235
- Required EPA Risk-Based Storage Approval





# FY14 UMC Project – 9201-1 Shops



**BEFORE**



**AFTER**



- Opportunity
  - Twenty-four (24) pieces of unneeded equipment
- Challenges
  - Removal of non-conforming items
  - Handling large pieces of equipment
  - Potential Rad, PCB and Be contamination

# FY14 UMC Project – Gas Cylinders



- Opportunity
  - Unneeded legacy gas cylinders
- Challenges
  - Hundreds of additional non-UMC identified gas cylinders that are unfunded
  - Materials are in a Radiological area
  - No gas powered material handling equipment allowed in work area
  - Cylinders are 20+ years old
  - Green House Gases



# FY14 UMC Project – Semi & Decon Trailers



- Opportunity
  - Waste identified in old trailers
- Challenges
  - Potential rad contamination (Semis)
  - Rad, PCB, and Be contamination (Decon)
  - Potential non-conforming items
  - Tree and vegetation growth around equipment
  - Rodent and insect infestation
  - Loading, securement, and shipment of over-sized trailers to off-site vendor for processing

# Uranium Processing Facility Project

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- UPF design work and evaluation of alternatives
  - Limited transition of 9212, 9215, 9204-2E, and 9995 operations
- Bruce Held, NNSA Acting Administrator, is challenging the project to complete construction with \$6.5B by 2025 through modularizing the construction



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