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Photos placed in horizontal position  
with even amount of white space  
between photos and header

# Sandia National Laboratories Site Update

Presented by Linda Gonzales, WCO, September 18, 2014



Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000. SAND NO. 2011-XXXXP

# Sandia's Business

- National security is our business.
- Sandia applies science to help detect, repel, defeat, or mitigate threats.
- Sandia works with other government agencies, industry, and academic institutions to accomplish our missions in the following strategic areas:
  - Nuclear Weapons
  - Defense Systems & Assessments
  - Energy & Climate
  - International, Homeland, & Nuclear Security
- For more than 60 years, Sandia has delivered essential science and technology to resolve the nation's most challenging security issues.

# Site Description

- Sandia National Laboratories (SNL) is operated and managed by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation.
- Sandia Corporation operates Sandia National Laboratories as a contractor for the U.S. Department of Energy's National Nuclear Security Administration (NNSA)
  - Supports numerous federal, state, & local government agencies, companies and organizations
- 5 Locations
  - SNL/NM
  - SNL/CA
  - Tonopah Test Range (TTR)
  - Kauai Test Facility (KTF)
  - Carlsbad, NM
- 10,000 employees

# Types of Waste Generated

- Low Level Radioactive (to include classified)
- Mixed Waste (to include classified)
- Classified Non-Radioactive Hazardous
- Classified Non-Radioactive Non-Hazardous
- Transuranic
- Hazardous
- Explosives (to include classified)

# Disposal Paths

- DOE Waste Disposal Sites
  - Nevada National Security Site
  - WIPP (thru LANL) DLG2
- Commercial Waste Treatment and Disposal Site
  - EnergySolutions

## Slide 5

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**DLG1** Duran, Leroy G, 8/25/2014

**DLG2** Sandia has shipped directly to WIPP

Duran, Leroy G, 8/25/2014

# SNL/NM Treatment Capabilities



- Macroencapsulation
- Stabilization and Solidification
- Neutralization

# Commercial Sites

## Mixed and Classified Hazardous

- M&EC – 1 shipment a year
  - Mock HE (deactivation/stabilization)
  - Lithium (deactivation)
  - Mixed and Hazardous Waste generated outside of SNL/NM (Macroencapsulation)
- DSSI – 1 shipment a year/thru PFF
  - Organics (solvent wash/energy recovery)

# Commercial Sites

## Mixed and Classified Hazardous

- Permafix of Florida – 1 shipment per year
  - Liquid Scintillation and Ethylene Glycol Vials (Crushing/Bulking)
    - Liquid goes to DSSI (combustion/energy recovery)
- EnergySolutions (Utah) – 1 shipment per year
  - Large Items (macroencapsulation)

# Commercial Sites

## Hazardous Waste

- Clean Harbors
  - El Dorado, once a month, everything
  - Colfax, every 2 months, explosives & reactive metals
  - La Porte, 1 every 2 years, toxic waste, some reactive metals
  - Deer Park, once or twice over the last 10 years, reactives
  - Aragonite, 1 to 2 shipments a year, non-reactives
- Violia
  - Henderson, 1 to 2 shipments a month, everything
  - Phoenix, 1 every 2 months, recyclables (batteries/light tubes etc.)/PCBs/Mercury
  - Sauget, once every 2 years, reactives
  - Port Arthur, once every 2 years

# Commercial Sites

## Hazardous Waste

- Keers, every 2 to 3 months, asbestos
- Waste Management, several times a month, non-regulated solid waste
- US Ecology, several times a month, asbestos, liquid for solidification, lithium
- Stericycle, 1 every 2 months, bio waste