

Exceptional service in the national interest



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

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, reactivities
 - Aragonite, 1 to 2 shipments a year, non-reactives
- Viola
 - Henderson, 1 to 2 shipments a months, everything
 - Phoenix, 1 every 2 months, recyclables (batteries/light tubes etc.)/PCBs/Mercury
 - Sauget, once every 2 years, reactivities
 - 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