

Disassembly and Sanitization of Classified Matter

Disassembly Sanitization Operation

Tuesday September 18, 2007

Presented by:

Dr. Dwight J. Stockham

***Sandia National Laboratories, P.O. Box 5800-1151,
Albuquerque, NM, 87185 djstock@sandia.gov***

Max P. Saad

***Sandia National Laboratories, P.O. Box 5800-0855,
Albuquerque, NM, 87185 mpsaad@sandia.gov***



OVERVIEW

- **Introductions**
- **Project Overview**
- **Present Capabilities**
- **Future Capabilities**
- **Questions and Answers**



PROJECT OVERVIEW (History)

- **Environmental Restoration Project of the Classified Waste Landfill at Sandia**
- **Project Started February 1998 and was completed September 2004**
- **In June 2001, the site was determined by the NMED as “Clean”**
- **The Material was removed from the site**
 - **1 ½ acre site remediated, 40,000 Cubic Feet of Soil**
 - **30 Sea-Land (48’) Transportainer**
 - **Secure Material Storage, in a 10,000 Square Foot Building 922**

PROJECT OVERVIEW HISTORY (Cont'd)



1 ½ Acre Site

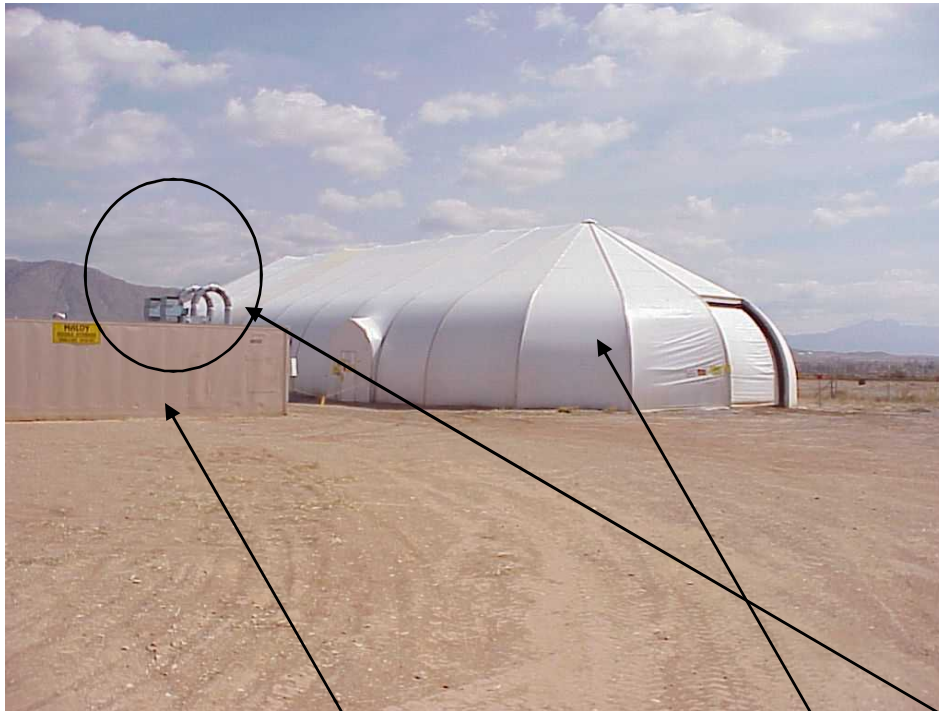
Main Office and
control area for the
project

Demil Operations Site

Material storage area
and Transportainers

Classified Landfill Site

PROJECT OVERVIEW HISTORY (Cont'd)



- **Demil Operations Site**

- A Sprung Type Structure
- 7,500 Square foot
- \$80K
- Disposable

Sea-Land Transportainer

Sprung Structure

Local Exhaust

PRESENT CAPABILITIES

Inside Sprung Structure

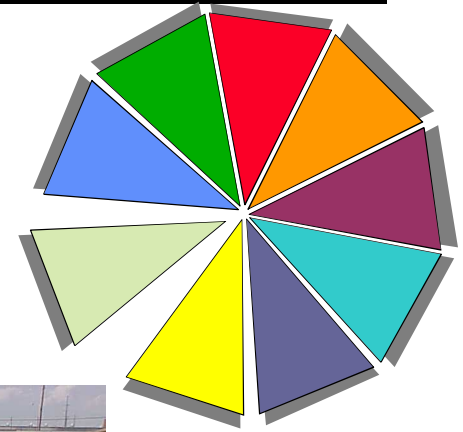


Beryllium Controlled Area
Controlled Area (Rad)
Heavy Duty Parts Shredder
Heavy Duty Ring Mill

PRESENT CAPABILITIES



Classified
component
(not really)



Materials being sorted

Materials being sent
off-site for Recycle



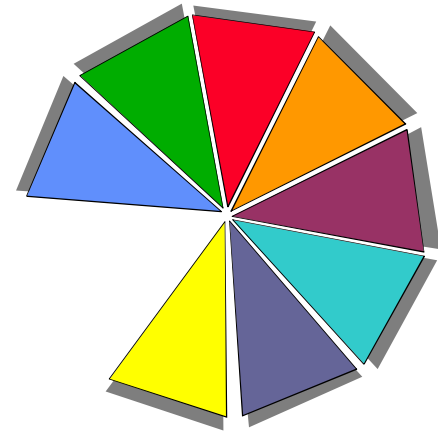
Materials being sorted and prepared to sent off-site for Recycle

PRESENT CAPABILITIES



B-53
Weapon
(Mock-up)

Types of
Materials
Removed



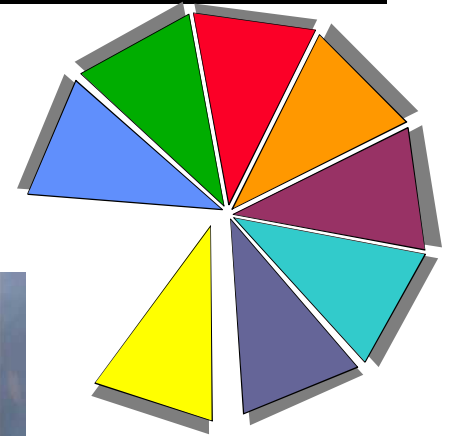
Air Reactive
Material

PRESENT CAPABILITIES



Various D

Various Demil Techniques

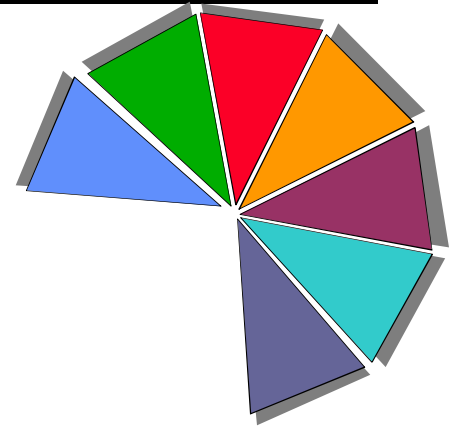


PRESENT CAPABILITIES

Pneumatic
Hand Tools

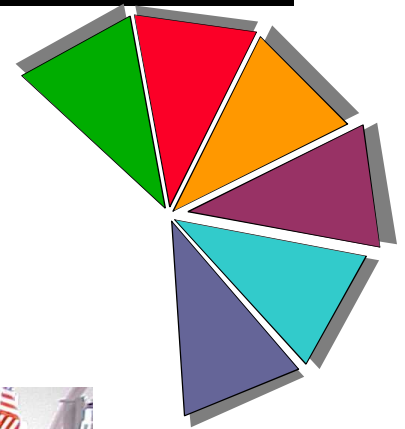
Down Flow
Tables

Appropriate
PPE



Common
Shop Tools

PRESENT CAPABILITIES





PRESENT CAPABILITIES

- **Materials Segregated by Type
(Pb, Al, SS)**
- **Classifier Review**
- **Material Sent Off-site
(Recycler, Solid, Haz Waste)**
- **Procedures For Operations
(WI, OP's and SOP's)**
- **Highly Trained and Skilled Personnel
(Explosives, Clearances, Hazardous
Materials, Lead and Beryllium
Awareness)**



DSO OVERVIEW

Linking the Process

- Land Fill Clean-up Project Completed Sept 2004**
- Neutron Generator Production Facility**
- Pantex Plant Amarillo, TX**
- Other Projects**
 - Hard Drives**
 - Visually Classified**
 - Sensitive Materials Management**



CONCLUSIONS AND DISCUSSIONS

- Questions.

- For More information you can contact

Dr. Dwight J. Stockham

Sandia National Laboratories, P.O. Box 5800-1151,

Albuquerque, NM, 87185 djstock@sandia.gov

or

Max P. Saad

Sandia National Laboratories, P.O. Box 5800-0855,

Albuquerque, NM, 87185 mpsaad@sandia.gov