Restoration Advisory Board Meeting Agenda

September 16, 1997

7:00	Welcome LTC Donald C. Olson Commander, Seneca Army Depot Activity
7:05	Acceptance of Minutes/ RAB Charter Change: Attendance Mr. Stephen M. Absolom/Dr. Dick Durst Army Co-chair/Community Co-chair
7:15	Solidification of Contaminated Soil Mr. Michael Duchesneau Project Manager, Parsons-Engineering Science, Inc.
7:35	Changes to Fiscal Year 1998 Program Mr. Thomas R. Enroth Project Engineer, U.S. Army Corps of Engineers, NY District
7:50	Break
8:00	Clearance of Unexploded Ordnance (UXO) Mr. Kevin Healy Technical Manager, U.S. Army Corps of Engineers, Huntsville, AL
8:30	Open Discussion
9:00	Adjourn

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Superfund Policy for Solidificaton/Stabilizaton

"Immobilization is generally appropriate as a treatment alternative only for materials containing inorganics, semi-volatile and/or non-volatile organics."

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Solidificaton/Stabilizaton Definitions

Solidification - (macro-scale) production of a monolithic, inert, block to prevent physical interaction between waste and leaching fluids.

Stabilization - (micro-scale) involves a chemical reaction that produces an insoluble product from the waste.

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Solidification/Stabilization Solidifying Agents

- Lime, Quicklime or Limestone
- Fly Ash Pozzolan (Silica)
- Portland Cement or Cement Kiln Dust
- Asphaltic Materials
- Mixtures of these Materials

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Solidification/Stabilization Advantages & Disadvantages

Advantages :

- Proven Technology (BDAT for metals)
- Simple
- · Generally Less Costly than Washing
- Disadvantages:
 - Effectiveness is Matrix Dependent
 - . High Clay Soils cause Clumping
 - High Oil Content Decrease Effectiveness
 - Volume of Material is Increased

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FY 98 Environmental Program Update

Presented by Thomas Enroth Project Engineer U. S. Army Corps of Engineers

FY 98 Environmental Program, Seneca Army Depot

TONIGHT'S DISCUSSION

- Projects that have changed
- What are the changes
- How will the program be effected
- Summary

Projects That Changed

- Installation Groundwater Monitoring Program
- Ash Landfill
- Open Burning Grounds
- Fire Training Areas

FY 98 Environmental Program, Seneca Army Depot

Projects That Changed

- Munitions Washout Facility
- IRFNA Disposal Site
- Old Construction Debris Landfills

Projects That Changed

- Deactivation Furnaces
- Removal-BTEX /VOC's

FY 98 Environmental Program, Seneca Army Depot

Projects That Changed

- Sludge Piles
- Radiation Survey

FY 98 Environmental Program, Seneca Army Depot

Summary

- FY 98 will still be a very busy year
- FY 98 budget submission is for \$12.5 Million (was \$16.8 Million last month)
- All of the projects that were planned are still in the schedule
- A phased approached will be used
- Cleanup projects may be accelerated

FY 98 Environmental Program, Seneca Army Depot

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Technical Manager, U.S. Army Corps of Engineers, Huntsville, AL
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SENECA ADA

INSTALLATION AND OPEN BURNING GROUNDS

ORDNANCE REMEDIATION OVERVIEW

Presented to the SENECA ADA Restoration Advisory Board September 16th, 1997



Ordnance and Explosives Program Overview

US Army Corps of Engineers Huntsville Engineering and Support Center



Topics

Definitions
Huntsville Center OE Missions
OE Center of Expertise
OE Design Center





Definitions

- OE -- Ordnance and Explosives: Bombs and warheads, guided and ballistic missiles; artillery and mortar; rocket ammunition, mines; demolition charges, pyrotechnics, grenades; containerized and uncontainerized explosives and propellants; military chemical agents; and all similar and related items or components, explosive in nature or otherwise designed to cause damage to personnel or material. Soils with explosive constituents are considered OE if the concentration is sufficient to be reactive and present an imminent safety hazard.
- UXO -- Unexploded Ordnance: An item of ordnance which has failed to function as designed, or has been abandoned or discarded and is still capable of functioning and causing injury to personnel or material.
- UXO Personnel: Graduates of the US Naval Explosive Ordnance Disposal (EOD) School at Indianhead, Maryland. Active duty EOD experience requirements vary with position (Sr. Supervisor -- 15 years, Supervisor -- 10 years, Specialist -- 3 years).



Huntsville Center OE

Huntsville has 2 Main OE Missions
 USACE OE Center of Expertise
 USACE OE Design Center
 Secondary Munitions Missions
 Range and Training Lands Program

14°21 11011 OE CX & Design Center Experience

- Have Traditional Corps Capabilities
- Additional Unique Capabilities
 - ► Explosive Ordnance Disposal
 - Staff of Military Trained EOD Safety Specialists
 - 400+ years EOD Experience
 - Experienced in Both Conventional & CWM
 - ► OE Experienced Staff in
 - Public Affairs

- Engineering
- Legal/Regulatory Contracting



OE CX Missions

- Oversight of USACE OE Activities
- Develop USACE OE Policy
- Review of OE Design Products
- Advise and Participate in External Working Groups for OE
- Find the Best Available Technology for UXO
- OE Training



OE Design Center Mission

- To Reduce the Risks to the Public from OE
- To Do all Actions Safely
- Insure Highest Level of Quality
- Be Cost Effective
 - ► Risk Based versus Removal Without Analysis



OE Customers

- FUDS (Formerly Used Defense Sites)
- IR (Installation Restoration)
- BRAC (Base Realignment and Closure)
- Work for Others
 - ► National Park Service
 - ► Bureau of Land Management
 - > Department of Energy
 - ► Environmental Protection Agency



Potential OE Sites

Site Counts as of: 27 Sep 96







Execution Strategy

ACTION

• Investigations/Studies

- Time Critical Removal Actions
- Engineering Evaluation
 Cost Analysis
- Removal Design
- Removal Actions

EXECUTION OPTIONS

Government:

- In House UXO Specialists
- Other Districts

Contracts (AE/UXO)

- Purchase Orders
- Letter
- Time & Materials (1 -UXO)
- Firm Fixed Price
- Cost Plus Fixed Fee (2 UXO) (3 - A/E)



Project Categories

Three Basic Categories of Projects:

- ► OE Risk Reduction -- Project Focus is on Known or Probable OE and Public Safety
 - 58 Former Defense Sites
 - 30 BRAC Installations
 - 1 Active Installation
- > OE Avoidance -- Project Focus is HTRW or Construction
- ► Real Estate Disposal Actions



Internet Addresses

- Huntsville Center
 - ► email: *lnameinitial*@smtp.hnd.usace.army.mil
 - ► Home Page on the Web: http//www.hnd.usace.army.mil
- DUSD Environmental Security
 - http://www.acq.osd.mil/ens/



- Project Information Retrieval System
 - http://dogbert.ncr.usace.army.mil



Questions

USAESC, Huntsville P.O. Box 1600 Huntsville, AL 35807-4301

OE Project Execution: Phone: (205) 895-1582 FAX: (205) 895-1819

OE- CX - Policy, Regulations: Phone: (205) 895-1320 FAX: (205) 722-8709







Installation-Wide Remediation Overview



Complete Archive Search Report (FY 98) Information search to gather all available information regarding potential Ordnance sites. Includes records reviews, personnel interviews, etc.

Perform an Engineering Evaluation/Cost Analysis Sampling at various sites to determine the presence/ extent of OE contamination at each and possible alternatives for removal.

Prepare cost analyses for alternatives and recommend removal alternative

Public/Regulatory Review

Implement Chosen Alternative (s)



OB Grounds Remediation Overview



Complete Work Plans

Complete Explosives Safety Submission

Perform Remediation Surface OE Contamination sift soils in the burning pad berms sift soils in the low-lying hill visually/geophysically locate OE contamination in the remaining acreage Subsurface OE Contamination sweep and clear all anomalies to a depth of two feet sift soils in areas of greater depths









Quality Control/Quality Assurance Contractor performs QC Huntsville Safety Specialist is on-site to oversee all operations and perform a 10% QA check

Disposal

UXO is blown in place.

OE-related scrap is inspected (as many as four times) before being certified as inert and disposed of to locally available scrap dealers. .