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NOV 15 1996

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Re: NATO Workshop in Moscow, my FAX of 14 Nov 96

Many thanks for your comments and your quick response. This version of the briefing incorporates the changes you suggested. It is provided for your information.

Some Agencies have requested copies of the actual briefing (full size pages). I will make that available at a future backstopping meeting.

(b)(6)

Attachment

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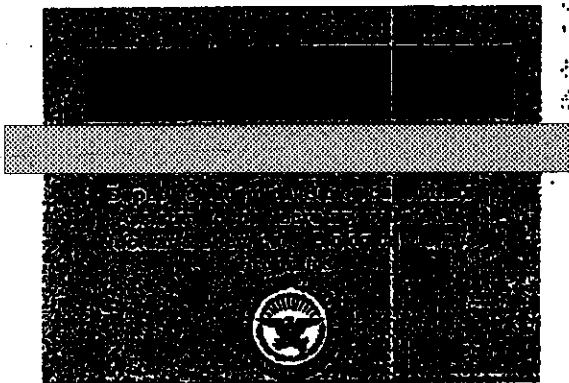
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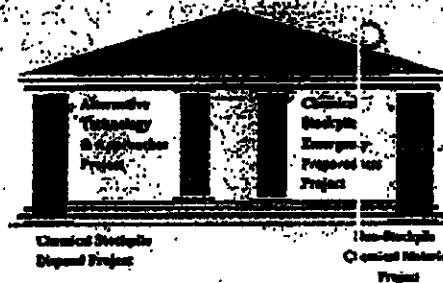
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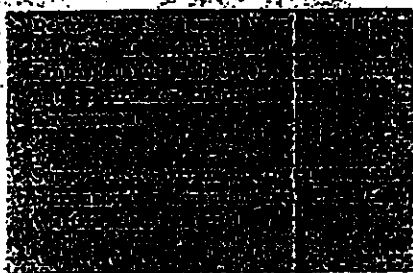
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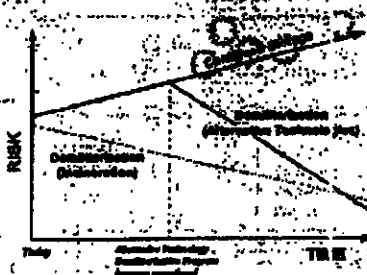
Chemical Demilitarization Pillars



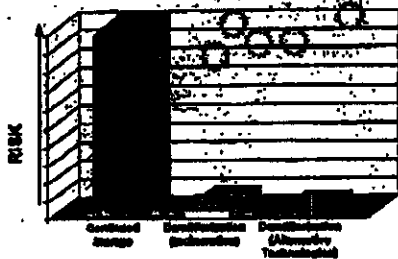
Mission



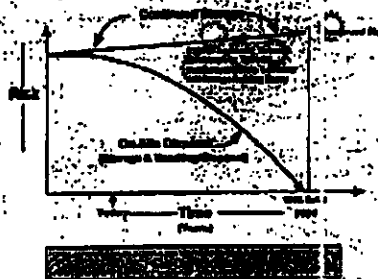
Chemical Weapons Demilitarization: Risks of Options



Cumulative Risk Estimation



Comparative Risk Storage Vs Disposal

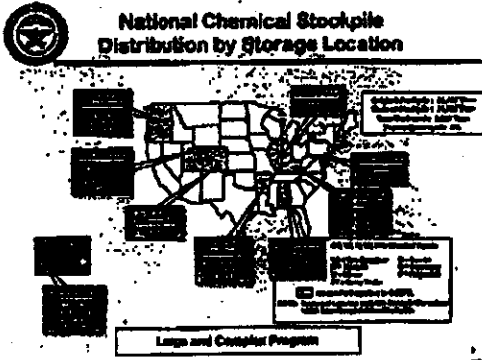


Problems With - Persistent Gas Rocket, VX, 116Nm, M55

- Leakage
- Degrading Propellant
- Possible Catastrophic Consequences

Inventory M55 Rockets (GB/VX)

Location	Category	Quantity
Austria	Rockets	100
	Rocket Workbooks	100
Mal Crete	Rockets	100
	Rocket Workbooks	100
The Gulf	Rockets	100,000
	Rocket Workbooks	100
Yugoslavia	Rockets	10,000
	Rocket Workbooks	100
Ukraine	Rockets	100,000
	Rocket Workbooks	100



Chemical Stockpile Distribution by Storage Location

Code	Location	Quantity	Category
JACDF	1990-CP-70	100,000	Large
TCDF	1990-CP-70	100,000	Large
SCDF	1990-CP-70	100,000	Large
BCDF	1990-CP-70	100,000	Large
PCDF	1990-CP-70	100,000	Large
FCDF	1990-CP-70	100,000	Large
QCDF	1990-CP-70	100,000	Large
ACDF	1990-CP-70	100,000	Large
HCDF	1990-CP-70	100,000	Large
TOTAL		1,000,000	Large

Chemical Stockpile Disposal Program Schedule

Activity	Start Date	End Date	Status
1. Initial Assessment	1990-01-01	1990-03-31	Completed
2. Site Characterization	1990-04-01	1990-06-30	In Progress
3. Remediation Planning	1990-07-01	1990-09-30	Not Started
4. Remediation Execution	1990-10-01	1991-03-31	Not Started
5. Final Site Assessment	1991-04-01	1991-06-30	Not Started

PROGRAM ACCOMPLISHMENTS and STATUS

1,000 tons destroyed



**ACCOMPLISHMENTS
JOHNSTON ISLAND**

- Operational Since 1996
- The First Full-Scale Chemical Treatment Installation Facility
- Extensive Shake Out Effort has been Required
- Successfully Destroyed Over 1,000 Tons of Agent
- All M56 Rockets on Johnston Island Destroyed
- All MC-1 Bombs on Johnston Island Destroyed (Air Force)
- All M1E-94 Bombs on Johnston Island Destroyed (Navy)
- Preparing for CB 155mm Projectile Campaign



**STATUS
ANNISTON**

- **Systems Contract Status:**
 - Awarded With a "Limited Notice to Proceed" Provision to Westinghouse Electric Company in February 25, 1996
 - Allows for Construction Planning, Permit Processing, and Preparation for Construction
 - Construction Efforts Will Not Commence Until Receipt of Necessary Environmental Permits



**STATUS
PINE BLUFF**

- **Procurement:**
 - Request for Proposal Issued Jul 1996
 - Systems Contract Award Scheduled for Dec 1997
- **Environmental:**
 - Environmental Permit Applications & Health Risk Assessment Protocol Provided to State in June 1996
 - Health Risk Assessment Protocol Being Revised to Meet State's Changed Protocol Standards



**ACCOMPLISHMENTS
TOOELE**

- Facility Construction Complete August 93
- Systemation Status - Completed All System Acceptance Tests
- Emergency Procedures
- Began Destruction of U.S. Stockpile - 22 Aug 96



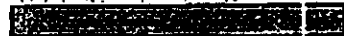
**STATUS
UMATILLA**

- **Procurement:**
 - Request for Proposal Issued Jul 1996
 - Bidder Selection Evaluation Period Completed
 - Systems Contract Award Scheduled for Feb 1997
- **Environmental:**
 - Environmental Permit Applications Submitted Feb and Aug 1996 respectively
 - Health Risk Assessment Being Prepared by State's Department of Environmental Quality (DEQ)



**STATUS
PUEBLO**

- **Procurement:**
 - Request for Proposal Issued Jul 1996
 - Systems Contract Award Scheduled for Dec 1997
 - Receipt of Environmental Permits and Construction of Designation
- **Environmental:**
 - Health Risk Assessment Protocol Submitted to State Aug 1996
 - Environmental Permit Applications Submitted to State Oct 1996





Chemical Stockpile Emergency Preparedness Project (CSEPP)

- Objectives
 - Build and Maintain a Strong, Self-Reliant, Ready Army Installations and Community
 - Develop and Maintain a State-of-the-Art "Community Emergency Response Capability Around the Key Chemical Stockpile Storage Installations"
 - Be a Good Neighbor by Providing Funding and Technical Assistance to the Civilian Community for the Improvement of Emergency Response Capability
 - Work in Concert with the Community to Assure Maximum Protection to the Public



STATUS ALTERNATIVE TECHNOLOGIES

- Establish the Feasibility of Steam-Heated Neutralization and Non-Neutralization Followed by Biodegradation Processes for VX and YX Disposal at Aberdeen Proving Ground (APG) and Newport Chemical Activity (NCA)
- Provide Information to Support a Department of Defense (DOD) Decision to Proceed or Not Proceed with Pilot Testing - Dec 96



STATUS NON STOCKPILE CHEMICAL MATERIEL PROGRAM (NSCM)

- Disposal of All Chemical Warfare Materiel (CWM) Not Included in the Unitary Approach:
 - Binary Chemical Weapons (CWC: Within 10 yrs)
 - Miscellaneous CWC: Devices and Equipment Specific to Employment of Chemical Weapons (Criminals, Bunkers, Launchers, etc.) (CWC: Within 5 yrs)
 - Recovered Chemical Weapons (CWC: Within 10 yrs)
 - Former Production Facilities (CWC: Within 10 yrs)
 - Buried CWM (CWC: Treated or recovered then used)



ACCOMPLISHMENTS Community Outreach

- Strategic Plan
- Storefront Informational Centers
- Public Education Programs
- Funding provided to Citizens Advisory Committees



Alternative Technologies and Approaches

- Research Out to Industry to Develop New Destruction Technologies - 3 Proposed Technologies Identified in R&D for Evaluation
 - Silver-II Electrochemical Destruction (2.5 Ton/yr)
 - High Temperature Gas Phase Oxidation (100 CO Logic Process)
 - Catalytic Destruction Process (No Environment Sensitive Metals)
- Government R&D Effort With Two Low-Tempers are had Low-Pressure Destruction Technologies
 - Neutralization Followed by Off-Gas Waterstar Treatment
 - Neutralization Followed by Biodegradation



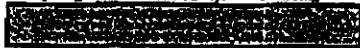
Potential Chemical Warfare Materiel Burial Sites



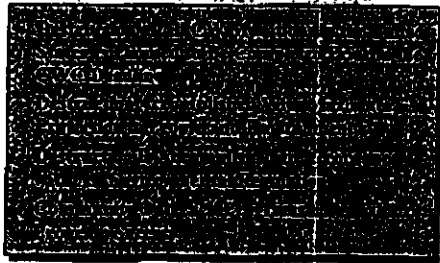


NSCMP Current Activities

- Detailed Implementation Plan Aug 95
- Programmatic Environmental Impact Statement - On Going
- On-Site Destruction Technology, Design, and Fabrication - On Going
- Environmental Permit Certification for Demolition of Technology - On Going
- Selection of Small Business Contractor - Jul 95
- Participating in Remediation Projects - On Going



Summary



Chemical Weapons Convention Requirements

- After Entry into Force (EIF) requirements are phased within 10 years
- Requires Destruction of:
 - Unitary Chemical Weapons
 - Chemical Agents and Precursors
 - Equipment and Devices Specifically for Chemical Weapons
 - Former Chemical Weapons Production Facilities
 - Binary Chemical Weapons

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