

Presentation 4 – Christine Moser

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Environmental Monitoring in Current Deployments

Presentation to
Research Advisory Committee on Gulf War Veterans' Illnesses

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Agenda

- DESP Mission
- Deployment Support
- Current Operation Support
- DOEHS Process
- Deployment Phase I-IV Efforts

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DESP Mission

- Develop a system capable of providing commanders and other decision makers pertinent information needed to detect, assess, and counter environmental threats as part of a Comprehensive Military Medical Surveillance Program required by the DOD Directive 6490.2.

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DESP Deployment Support

- Deployment Occupational Environmental Health Surveillance (DOEHS) assistance
 - Planning support
 - Technical consultation
 - Equipment training and use of technical guidance
 - Unique equipment supply, media resupply
 - Laboratory analysis interpretation
 - Data analysis and interpretation
 - Archival services

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Current Operation Support

- GWOT, OIF, OEF,
- Exercises (New Horizons, Victory Strike, Cobra Gold)
- Peacekeeping, Humanitarian
- Drug Interdiction (SOUTHCOM)
- Partnership for Peace (EUCOM)
- SOCOM Activities
- Special Medical Augmentation and Response Teams (SMART) - USACHPPM

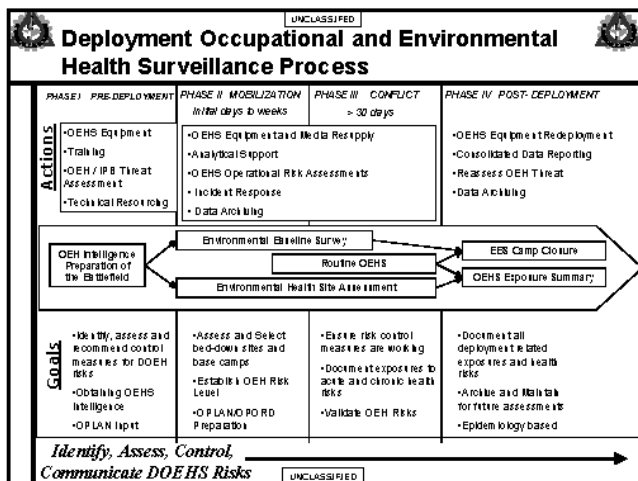
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Phases of Support

- Phase I Pre-Deployment
- Phase II Mobilization
- Phase III Conflict
- Phase IV Post-Deployment

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Phase I Assessment Efforts



- Pre-Deployment OEH Intelligence Preparation of the Battlefield Assessments
 - Industrial Materials
 - Historical Contamination
 - WMD Sites
 - Oil Fires
 - UXO
 - Radiation
 - Infectious Disease
 - Entomological Risks
- US Combatant Commands and Component Commands Requests for Bed-down Site Assessments
- Provide Input and Review of Operations Plans

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Training

- OEHS Equipment/Training Activities Provided to DOD
 - Army Preventive Medicine Units
 - Army Division preventive medicine
 - Air Expeditionary Group
 - Marine Expeditionary Force
 - Navy Environmental Preventive Medicine Units
 - Army Corps of Engineers
- Operational Risk Management Course
 - 6AF5 / 6AF6
 - PACOM
 - AF Japan
 - SOCOM
- Specialized team training
- Ad-hoc individual OEHS training



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DOEHS Equipment Support

- Water, Soil, Air
- Media Resupply
- Supplemental
 - GPS, camera, backpack






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DOEHS Equipment Support

- Soil



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DOEHS Equipment Support

- Air Sampling



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Phase II Efforts

- OEHS Equipment Shipments:
 - USACHPPM Forward
 - Incident Response





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DOEHS Equipment Support



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Intelligence Data

- Defining existing worldwide industrial hazards.
- Continuously revised based on new intelligence.
- Validated by OEHS data.
- Risk and consequence management.
- Secure Web Site
 - Development of Interactive Geographic Information System, Internet Map Server Web Page
 - Posting of OEHS data/reports to site

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Phase II Efforts

- CHPPM SMART PM assist organic units
 - Conduct OEHS Assessments at Base Camps
 - Air, Soil and Water Samples Collection
 - Extensive On-site Risk Communication
 - Health Information Products Provided
- Deploy for: Oil Fires, WWTP chemicals, landfill fire, m severe contamination issues
- Enhance Equipment Sets / Resupply

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Phase II Assessment Efforts

Health Information Products Disseminated In Support of OIF

HIO Products Shipped ISO Operation Iraqi Freedom
Soldier Guide to Staying Healthy
Soldier Guide to staying Healthy in SWA
USACHPPM TG-273 - Diagnosis and Treatment of Diseases of Tactical Importance to USCENTCOM
USACHPPM TG-276 - Ultimate Preventive Medicine CD ROM Set
USACHPPM TG-244 - Medical NBC Battle Book
Oil Fire Information Cards
Botulinum Diagnosis Information Card
Redeployment Antimalarial Medication Information Cards
Soldier and Family Guide to Redeploying from Operation Iraqi Freedom
Redeployment Medical Guide for Missions in Support of Operation Iraqi Freedom

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OIF Phase III Efforts

- OEHS Activities
 - Command and control element to support PM assets
 - HQ (OIF, other deployments).
 - Baghdad, Afghanistan, Balkans, Honduras
 - Sampling media supply and management.
 - CHPPM Laboratory Support Coordination.
 - Data interpretation and ORM assessments for PM personnel.
 - Support to CONUS and OCONUS Air Force and Navy PM personnel.

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OIF - Phase IV Efforts

- OEHS IM/IT Data Archiving Policy
- Under Secretary of Defense Memorandum "Improved Occupational and Environmental Health Surveillance Reporting and Archiving" (29 May 03)
- Joint Chiefs of Staff Memorandum "Updated Procedures for Deployment Health Surveillance and Readiness." (Revised 1 Feb 02)

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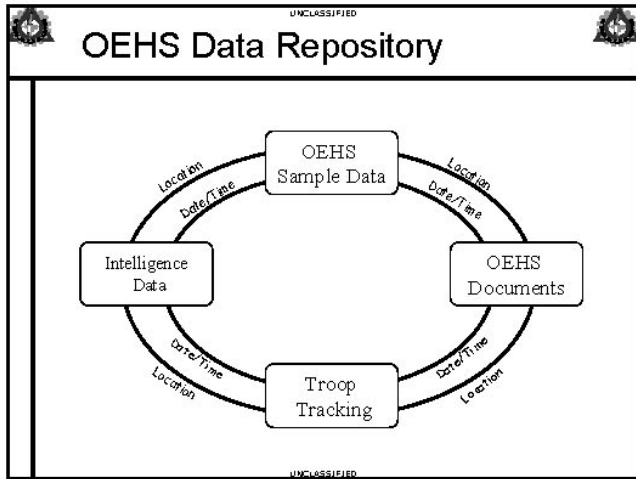
OEHS Document Archival

- Capture Grid Coordinates
- Maintain a consistent level of detail with locations, POCs, forms used, SITREPs, summaries, etc.
- Draw maps and take pictures (w/permission)
- Identify unit personnel and chain of command
- Use remark sections on forms for field and sampling notes
- Include MFRs, official correspondence and log books

OEHS DOCUMENT ARCHIVE

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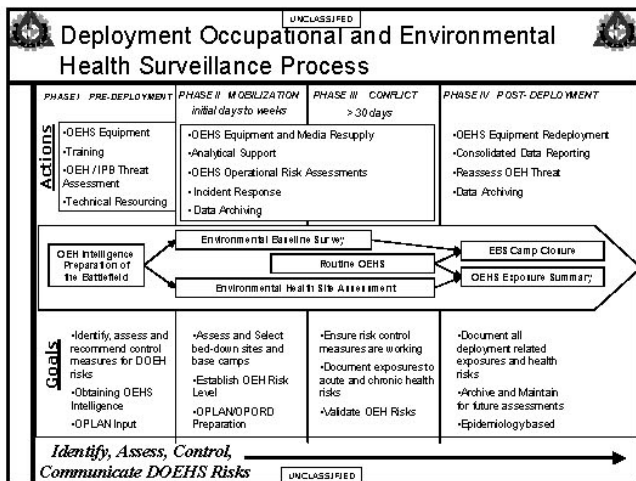
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Technical Guides

May 2003 Technical Guide 230
 Chemical Exposure Guidelines for Deployed Military Personnel
 U.S. Army Center for Health Promotion and Preventive Medicine

- **TG 230: Chemical Exposure Guidelines For Deployed Military Personnel**
 - Reviewed by National Academy of Science
- **TG 251: Deployment Environmental Surveillance Sampling Guide**
 - Transforming into American Society of Testing and Methods (ASTM) Standard
- **TG 288: Entomological Operational Risk Management**

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Questions?

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