





DEFENSE OCCUPATIONAL & ENVIRONMENTAL HEALTH READINESS SYSTEM

CURRENT STATUS Dod INDUSTRIAL HYGIENE FORUM 22 MAY 2000







BRIEFING AGENDA

- **Project Overview**
- Mandates for DOEHRS
- Functional Involvement
- Background
- Objectives
- Exposure Assessment Process
- Deployment Occupational & Environmental Health
- Mobility
- Training
- Architecture
- Support
- Deployment Schedule
- Data Repository
- Questions and Conclusion

PROJECT OVERVIEW

- The DOEHRS is the Occupational Health migration system for the Department of Defense (DoD). DOEHRS is an automated information system designed to support the DoD Industrial Hygiene (IH), Environmental Health (EH), Hearing Conservation (HC), and Occupational Medicine (OM) programs.
- DoD MHS Information Management Proponent Committee (IMPC) re-confirmed decision in October 1999
- Funded for initial deployment in FY00
- FY01 MHS Investment Portfolio includes funding for DOEHRS-IH deployment



PRESIDENTIAL DIRECTIVE

I am directing the Department of Defense and Veterans Affairs to create a new Force Health Protection program. Every soldier, sailor, airman, and marine will have a **comprehensive, life-long medical record** of all illnesses and injuries they suffer, the care and inoculations they receive and their **exposure to different hazards**. These records will help us prevent illness and identify and cure those that occur. President William Clinton, 8 Nov 1997



A NATIONAL OBLIGATION PRD 5

 Actions to ameliorate, avoid, or, ideally, prevent such health effects include: improving service member's understanding of health risk information; improving medical and nonmedical countermeasures; enhancing government collection of health and exposure data, along with improving linkages between health information systems; coordinating agency research programs; and improving delivery of health care services to veterans and their families.





This portion of the National Defense Authorization Act for Fiscal Year 1998 adds a new Section 1074f to Chapter 55 of Title 10 US Code which requires a medical tracking system for members deployed overseas and asks for a report on the FY99-FY04 costs and operational considerations of the required system.

FY1998 Public Law 105-85 for Force Health Protection

DoD DIRECTIVE/INSTRUCTION



Joint Medical Surveillance

DoDD 6490.2 and DoDI 6490.3 establish and implement Joint Medical Surveillance policies and procedures. The DoDI states (para F 2 a (1)) that OASD(HA) shall field DoD medical systems that will capture exposure data in central repositories and specifically names the Defense Occupational Health Readiness System (DOHRS=DOEHRS) as one of the systems.

FUNCTIONAL INVOLVEMENT USERS IDENTIFIED "THEIR" REQUIREMENTS

- DoD Industrial Hygiene Task Force
- DoD Occupational Health Working Group
- Joint Environmental (Health) Surveillance Working Group
- DoD Clinical Working Group approval
- DoD Ergonomics Working Group
- DOEHRS-IH Functional Working Group
- DOEHRS-IH Presentation Layer Working Group



DOEHRS INDUSTRIAL HYGIENE BACKGROUND

- Collect all exposure information
 - "Environmental" & "Occupational" exposures
 - Deployments & fixed facilities
 - Army, Navy, Marine Corps, Air Force, Defense Agencies
- Local value to Commanders
 - − HEALTH risks → Operational Risk Mgt
- Central medical record of ALL exposures
 - Duration of employment + 40 years

DOEHRS-IH KEY OBJECTIVES

- Prevent occupationally related illnesses and injuries by anticipating, recognizing, and evaluating hazards; and by recommending controls to commanders, supervisors, exposed personnel and Occupational Safety and Health Managers for implementation
- Characterize occupational and environmental health exposures to enable targeted medical surveillance and treatment by health care providers
- Investigate abnormal medical findings and trends referred to IH from health care providers to prevent illness or injury

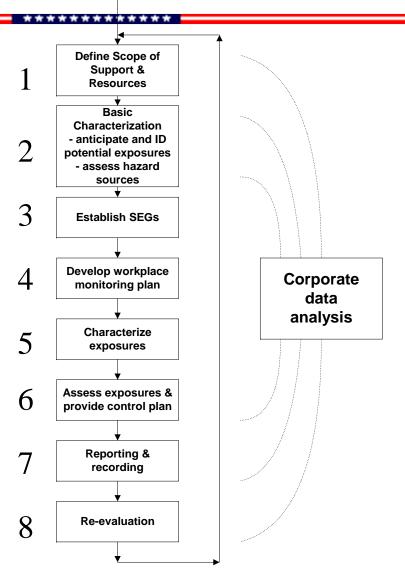
DOEHRS-IH KEY OBJECTIVES

- Establish and document a historical record of exposure levels for personnel, and communicate exposure monitoring results
- Provide tools for IH decision support
- Streamline IH operations by supporting personnel and workplace monitoring (WPM), medical surveillance, and decision-making
- Streamline data entry through downloads of demographic and clinically relevant data from other DoD systems.

EXPOSURE ASSESSMENT PROCESS

DOEHRS uses the DoD Exposure Assessment Model

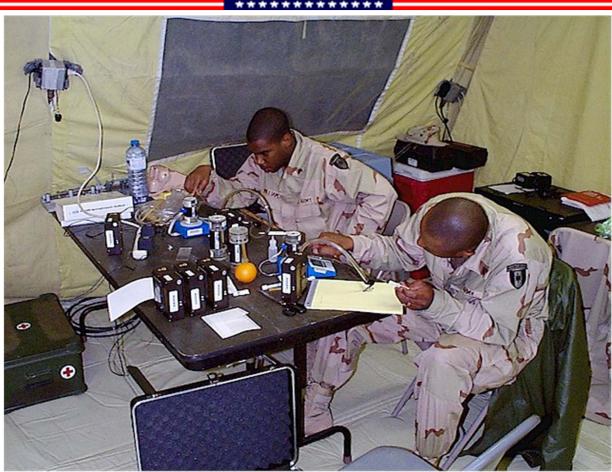




DEPLOYMENT OCCUPATIONAL & ENVIRONMENTAL HEALTH STRATEGY

- Fundamental Strategy: Incorporate Deployment OEHS requirements into existing MHS Systems.
- The ultimate goal is to link deployed and nondeployed occupational and environmental health exposure information to individual medical records.
 - By linking DOEHRS, Composite Health Care System II (CHCS II), and the Theater Medical Information Program (TMIP), this link becomes reality.

DEPLOYMENT OEHS SURVEILLANCE



Area Medical Lab calibrating Personal Air Sampling Devices used in assessing Occupational and Environmental Health Exposures

DoD IH Forum

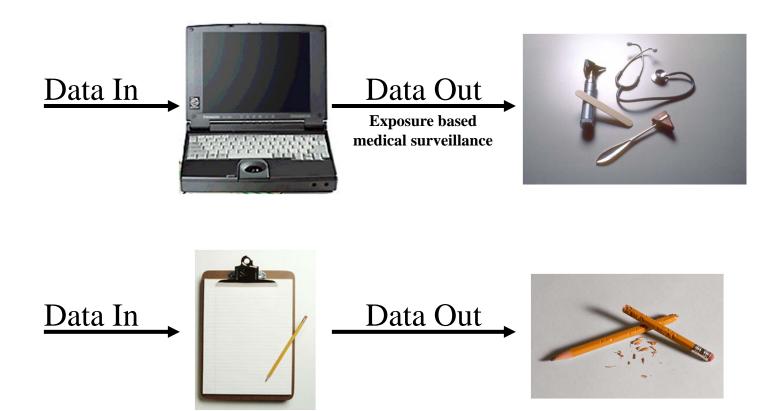
DEPLOYMENT OEHS SURVEILLANCE



Chemical Agent Resistant Coating Spray painting during Gulf War

DoD IH Forum

MOBILE/PEN CAPABLE COMPUTERS



DOEHRS-IH TRAINING

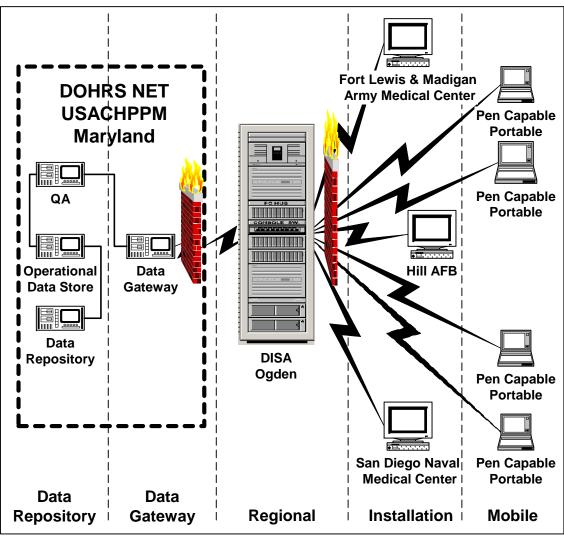
Computer Based Training (CBT)



Initial On-Site Training using DOEHRS End User Devices (EUDs)



DOEHRS-IH ARCHITECTURE ALPHA TESTING CONFIGURATION



HELP DESK SUPPORT



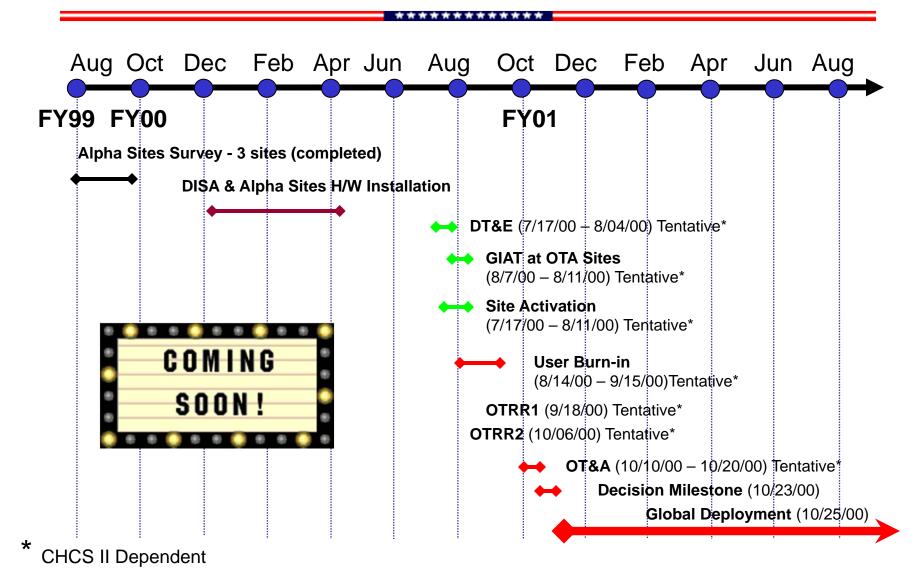


Hardware Warranty (GTSI*)

Toll Free Access in CONUS and OCONUS

*Vendor dependent

DOEHRS-IH SCHEDULE



DOEHRS DATA REPOSITORY INTERNET ACCESS

- Provide World-Wide Tri-Service Access
- Provide Secure Transactions
- Automate Data Calls
- Automate Software Version Control
- Web Access to Required References
- Web Access to Licensed Resources



DOEHRS DATA REPOSITORY DESIGN METHODOLOGY

Operational Data Store (ODS)

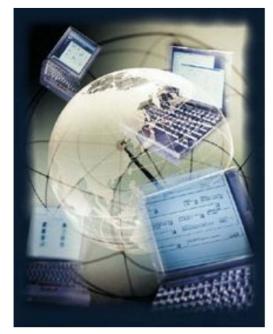
- Houses tactical data from production systems and is subjectoriented and integrated to address operational needs
- Detailed, current information of a transactional nature, refreshed frequently, and only held for a short period of time (normally)
- Goal is to provide a tactically-structured, efficient information processing environment to satisfy analysis and reporting capabilities required for the day-to-day operations of the business.

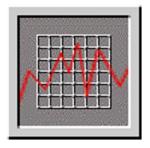
• Data Repository (DR)

- Stores data from operational data sources, using structures organized around major subject areas such as person, MACOM, DOD component, and sample.
- Goal is to provide an enterprise structured, efficient information processing service through increased accessibility, standardization and reliability of timely information.

DOEHRS DATA REPOSITORY REPORTING TOOLS

- Pre-Defined Periodic Reports
- Ad-Hoc Queries
- Trend Analysis
- Statistical and "What If" Analysis





DOEHRS NET RESOURCES CURRENT LICENSED INTERNET ACCESS

• Micromedex TOMES Consolidated Point Solution System

- MEDITEXT (Medical Management)
- HAZARDTEXT (Hazard Management)
- INFOTEXT Regulations, Standards and General Information
- CHRIS Chemical Hazard Response Information System
- HSDB Hazardous Substance Data Bank
- IRIS Integrated Risk Information System
- NAERG North American Emergency Response Guidebook Documents
- New Jersey Hazardous Substance Fact Sheets
- NIOSH Pocket Guide
- OHM/TADS Oil and Hazardous Materials/Technical Assistance Data System
- RTECS Registry of Toxic Effects of Chemical Substances
- REPROTEXT System
- **REPROTOX System**
- TERIS Teratogen Information System
- 1st Medical Response Protocols
- RegsLink with Federal Register.
- LOLI Lists of Lists











CONCLUSION

The DOEHRS will provide accurate and complete Occupational and Environmental Health information by supplying automated data collection tools and comprehensive information access tools at deployed and fixed facilities worldwide.