Headquarters U.S. Air Force

Enterprise, Environmental, Safety, Occupational Health-Management Information System

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**Abstract:** Presented at the NDIA Environment, Energy Security & Sustainability (E2S2) Symposium & Exhibition held 4-7 May 2009 in Denver, CO.
Overview

- Purpose of EESOH-MIS
- Why EESOH-MIS
- Where We Are
- Situation
- Lessons Learned
- Benefits
Purpose

- Supports the Air Force goal of reducing toxic and hazardous chemical reductions through risk management applied across the weapon system, facility and infrastructure life cycle.

- The EESOH-MIS program is a comprehensive web based automated information system for the aggregation and collection of Environmental Data. Used to respond to specific environment, safety and occupational health (ESOH) impacts.

- Provides Hazardous Materials Tracking, Hazardous Waste and Cleanup functionality.

- Allows roll up of data at the MAJCOM, Air Staff and OSD level.

- Single application used throughout the Air Force.
Why EESOH-MIS?

- Implements SAF/IEE policy letter supporting the ESOH information integration vision
- Optimize base efficiencies
  - Eliminates multiple data entry in multiple environmental systems
  - Provides operational mission risk mitigation versus reactive actions

EESOH-MIS is a comprehensive web-based automated information system for the aggregation and collection of Environmental, Safety & Occupational Health data.
Reality

**EMIS**
- Shop
- HazMat Authorizations
- Use Information
- Equipment
- Controls
- MSDS Data
- Organization Data
- Personnel Data
- Location Data

**HMMS**
- Zones
- HazMat Authorizations
- Use Information
- Equipment
- Controls
- MSDS Data
- Organization Data
- Personnel Data
- Location Data

**CCS**
- Shop
- Exposure Groups
- Processes
- Hazmat Consumption for Air Emission (APIMS)
- Use Information
- Equipment
- Controls
- MSDS Data
- Organization Data
- Personnel Data
- Location Data

**SAF/IEE**

**Wing**

**Shop Floor**

*Integrity - Service - Excellence*
Vision

STEWARDED DATA
- MSDS Data
- Organization Data
- Personnel Data
- Location Data

BEE
Env
SE
LG

SHARED DATA
- Shop
- Process
- Materials
- Equipment
- Controls

SAF/IEE
Wing
Shop Floor
EESOH Program Drivers

**AFI 32-7042**
40 CFR parts 260-272

**AFI 32-7086, 32-7080**
EPCRA—Emergency Planning and Community Right-to-Know Act (42 U.S.C. 11001-11050)

**AFI 32-7040**
Required tracking of HAPS/NESHAPS usage (42 U.S.C. 7412)

**AFI 32-7020**
Restoration Transformation - SAF/IEE & AF/A7C pushing for change (OSD has criticized the Air Force's restoration data collection)

**EXECUTIVE ORDER 13423 Strengthening Federal Environmental, Energy, and Transportation Management**

**Hazardous Waste**
- Document Training
- Manifests/Data Storage

**Hazardous Materials**
- Usage Exemptions
- Track Commodities

**AIR Quality**
- Air Emission Inventory
- Regulatory Compliance

**Cleanup**
- Environmental Liabilities

**Regulatory Compliance**
- Environmental, Energy, and Transportation Management

**Usage Exemptions**
- Track Commodities

**Air Emission Inventory**
- Regulatory Compliance

**Environmental Liabilities**
- Cleanup

**EXECUTIVE ORDER 13423 Strengthening Federal Environmental, Energy, and Transportation Management**

**AIR Quality**
- Air Emission Inventory
- Regulatory Compliance

**Cleanup**
- Environmental Liabilities

**EESOH Program Drivers**

**Integrity - Service - Excellence**
One Stop Shopping for all E, S, OH constraints and requirements on the defined “Work Unit”

Work defined once and used for all ESOH media and functions
Where We Are

U.S. AIR FORCE

Integrity - Service - Excellence
Situation

Challenges

- Air Force Portal
- Continually updated multiple databases (EMIS, CCS, EESOH Migration Tool) until LIVE with EESOH-MIS
- Operation/navigation of new database (EESOH-MIS)
- Development of new management and work practices
- Development of Standardized Processes

Benefits

- More accurate the data, less duplication in EESOH-MIS
- EESOH-MIS offers flexibility and will adapt to Air Force operations
Lessons Learned

- Change Is Difficult
  - “Change is the law of life. And those who look only to the past or present are certain to miss the future.” John F. Kennedy

- Data Quality Vital
  - Migrating legacy data
  - Ensuring Enterprise Data is Accurate

- Transformation Across the Air Force
  - Standardizing Business Processes
Benefits

- Reducing Toxic and Hazardous Chemicals under Executive Order (EO) 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*

- Supports ESOH MS

- EESOH-MIS allows total visibility across weapon systems and processes for reduction efforts
  - Reduction effort reporting visible at all levels
    - Installation, Major Command, Headquarters, OSD
  - Transparency
  - Efficiency
Questions