Effective Data Stewarding Measures in Support of EESOH-MIS

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Outline

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2. What Is EESOH-MIS?
3. About EESOH-MIS Data Stewarding
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Purpose of EESOH-MIS Data Stewarding

- To provide accurate and accessible product hazard and chemical data to the Air Force
  - Centrally managed and funded
  - Controlled repeatable data management processes
  - Focused on specific needs of Environmental, Occupational Health, and Safety compliance needs (in addition to worker right-to-know)
  - Low cost
What Is EESOH-MIS?

The Enterprise Environmental, Safety, and Occupational Health – Management Information System (EESOH-MIS):

- A web-based system to manage hazmat, hazwaste, and other environmental compliance data
- In use at 62 AF installations
- Helps installations meet reporting requirements through effective data management
What Is EESOH-MIS?

- EESOH-MIS provides:
  - Accurate material product and chemical hazard data
  - Scanned images of Material Safety Data Sheets (MSDSs) to be available for Emergency (Hazmat or Spill) Response - Fire Dept/Base Spill Team
  - Data available by process to support air permit compliance/conditions, waste characterization, and other compliance reporting requirements
  - Accurate data for environmental compliance calculations and reporting and to export to other systems via web intelligence services
  - All supported by The Data Stewarding Function!
About EESOH-MIS Data Stewarding

Product Hazard Data (PHD) stewards:

- A group of contractors at Hill AFB who administer the data in EESOH-MIS
- Experts in hazmat management, environmental reporting, occupational health requirements, and logistics
About EESOH-MIS Data Stewarding

Why data steward at Hill AFB?:

- Large installation with vested interest in data quality:
  - Hill AFB is the largest hazmat user in AF
  - Hill AFB must have the data to comply with air, waste, and EPCRA regulations

- Primary beta site for EESOH-MIS (barcoding)
- Experienced ESOH data staff
- Local contractor pool with extensive MSDS/chemical knowledge
- Available space and Information Technology (IT) infrastructure

Source EESOH IPT decision brief Atlanta 2006
# About EESOH-MIS Data Stewarding

<table>
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<tr>
<th>Task</th>
<th>Effort</th>
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<tr>
<td>Product Hazard Data</td>
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<td>Chemical Data</td>
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<td>Data Maintenance</td>
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<td>Customer Service</td>
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<td>PMO Support (AFCESA)</td>
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Data stewarding much more than MSDSs
About EESOH-MIS Data Stewarding

PHD information includes:

- Material data:
  - Stock number/logistics data
- Product data:
  - Manufacturer specific data
- MSDS/Chemical data:
  - Material specific data
- Value added research and calculations supporting RCRA, Tier II, CAA, and Title V reporting requirements
About EESOH-MIS Data Stewarding

Data maintenance tasks include:

- Updating data to support software releases
- Updating migrated data as needed
- Coordinating scripts with the Help Desk as needed
- Supporting business process enhancements
Customer support tasks include:
- Addressing phone calls and emails requesting support for:
  - Hazmat operations
  - MSDS information
  - EESOH-MIS shared data and general functionality
  - Container Unit Package / Supply Unit Issue guidance
  - Troubleshooting EESOH-MIS errors
Benefits of Data Stewarding

**Efficiency:**
- Eliminates duplication of efforts:
  - One team uploading information for ALL installations

**Data consistency:**
- Centrally-controlled data entry
- Standardized business rules

**Cost effective:**
- AF spent ~ $15M/yr on hazmat related data entry before EESOH-MIS
- AF spending < $2M/yr on EESOH-MIS data entry
Lessons Learned--Efficiency

A centralized data stewarding function improves efficiency by:

- Eliminating duplication of efforts (i.e. multiple bases loading the same data)
- Providing standardized business practices to improve data consistency/reliability
Summary

- Hill AFB EESOH-MIS Data Stewards efficiently administer hazmat data for the entire system.
- They manage material, product, and MSDS/chemical data; perform valuable data maintenance, and provide customer support to other bases.
- Hill AFB is ideal for performing this task by:
  - Having a vested interest in hazmat data.
  - Being the beta site for EESOH-MIS.
  - Utilizing existing contract employees experienced with ESOH data.
  - Having available space and IT capabilities.
Questions?