Improvements to Hazardous Materials Audit Program Prove Effective

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# Improvements to Hazardous Materials Audit Program Prove Effective

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**ABSTRACT**

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Outline

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2. HazMat Audit Program
3. Results
4. Lessons Learned
5. Summary
Hill AFB Background

> Maintenance depot

> F-16, A-10, F-22, C-130, B-2, and stealth aircraft

> 28,000+ employees
Hill AFB Background

> 52,000 industrial processes

> 74 HazMat distribution centers (Hazmarts)
Hill AFB Background

> More than 500,000 HazMat issues per year
> More than 7,000 different active HazMat
> More than 1,400 new HazMat each year
> More than 1,000 processes and shops of concern
Hill AFB Background

> Clean Air Act (CAA)

  – HazMat constituent and vapor pressure limits
  – HazMat consumption limits
  – Tiered process controls based on HazMat and operation type

> Occupational Safety and Health Administration (OSHA)

  – Hazard communication

> Resource Conservation and Recovery Act (RCRA)

  – Knowledge-based waste characterization
Hill AFB Background

> The Enterprise Environmental, Safety and Occupational Health Management Information System (EESOH-MIS) Hazardous Materials Module

- Standardized Air Force HazMat tracking system
- 600,000 individual containers of HazMat issued annually
HazMat Audit Program

- Perform inventory reconciliation audits
- Reduce HazMat inventory transaction errors in EEOOH-MIS HazMat Module
- Ensure a strong regulatory compliance posture
HazMat Audit Program

Physical Inventory

Electronic Inventory

Upload and Compare Physical vs. Electronic Location
HazMat Audit Program

> Two changes to decrease error rates
  – Implementation of a compliance risk-based audit frequency
  – Communication of results to each Hazmart’s chain of command

> Risk-based frequency
  – Quarterly (26)
  – Semi-annual (39)
  – Annual (9)
HazMat Audit Program

> Errors are identified by audit tool
> Root causes are identified
> Corrective actions are then taken by HazMat personnel
Results

> Increased focus on management efforts for Hazmarts with greatest risk of non-compliance

> Increased visibility of day-to-day operations of each Hazmart

> Increased involvement from upper management
Results

> Overall improvement of 31% in error rate

> Highest risk areas
  
  – Improvement in 100% of Hazmarts
  – Reduced initial error rate by 30%
  – 50% decrease in average error rate
  – 49% decrease in total number of container errors
Lessons Learned

> Changes provided immediate and considerable improvement in audit errors

> This approach will be implemented in a Shop-Level Materials Audit Program
Summary

> Hill AFB

- 74 Hazmarts
- 600,000 individual containers of HazMat issued annually
- EESOH-MIS HazMat Module used to track data
- Inventory error rates a problem
Summary

> HazMat Audit Program
  – Implement risk based HazMat audit frequency
  – Communicate results through chain of command

> Results
  – Improved compliance standing
  – Increased inventory accuracy

> Lessons learned
  – Implement similar Shop-Level Audit Program
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