



75TH AIR BASE WING

EMAssist

Improvements to Hazardous Materials Audit Program Prove Effective

2009 Environment, Energy and
Sustainability Symposium and Exhibition

Report Documentation Page

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Outline

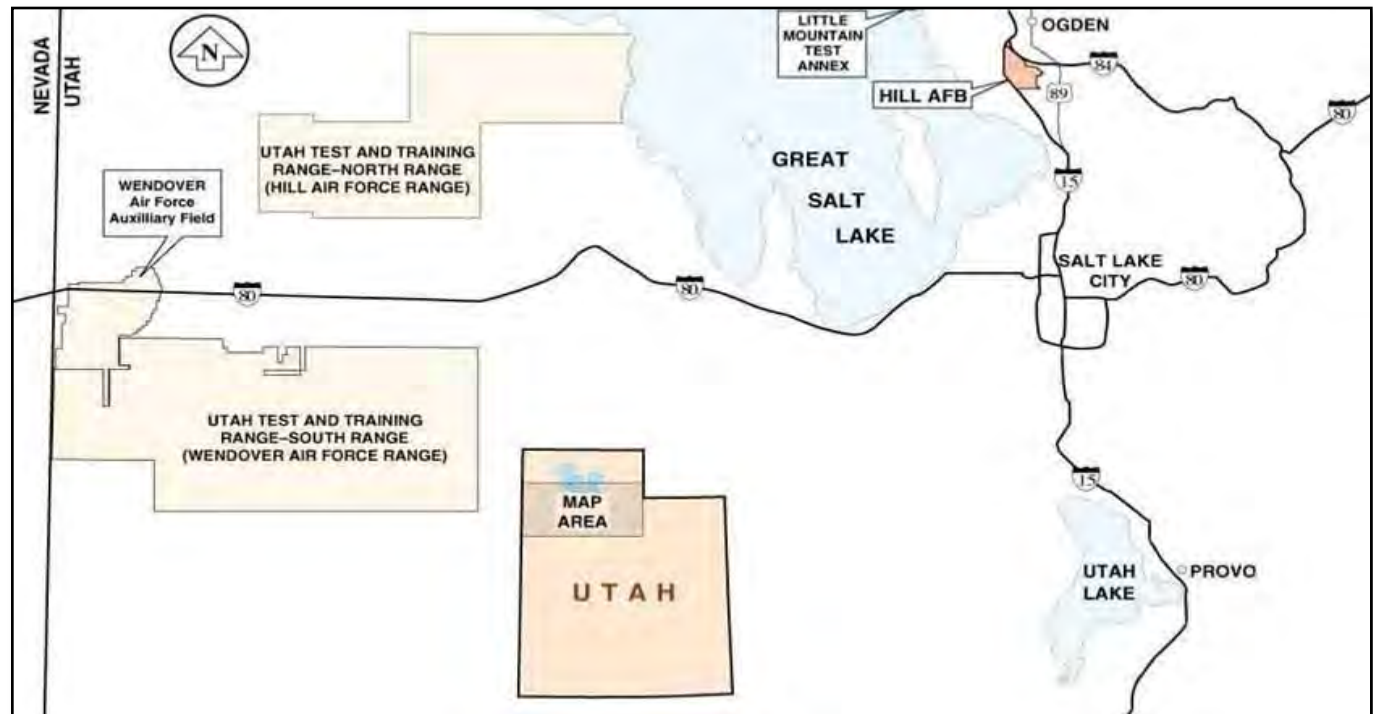


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Hill AFB Background



- > 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

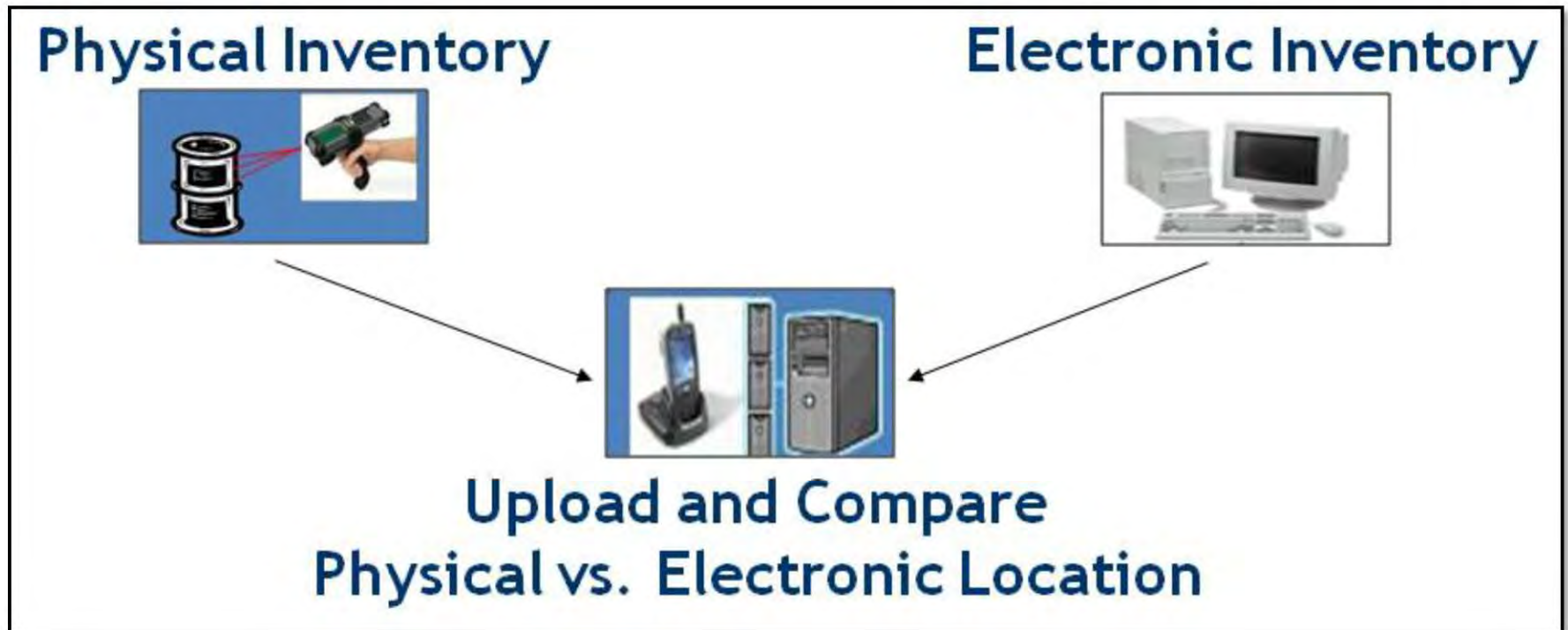


HazMat Audit Program



- > Perform inventory reconciliation audits
- > Reduce HazMat inventory transaction errors in EESOH-MIS HazMat Module
- > Ensure a strong regulatory compliance posture

HazMat Audit Program



HazMat Audit Program



- > Two changes to decrease error rates
 - Implementation of a compliance risk-based audit frequency
 - Communication of results to each Hazmat'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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