

75th Air Base Wing



Utilizing a Central Database for Maintaining Regulatory Compliance and Emission Inventories at Hill Air Force Base

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75TH AIR BASE WING

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Introduction



75TH AIR BASE WING

Hill Air Force Base (HAFB) and the Utah Test and Training Range (UTTR)

- **Command Core System (CCS)**
- **Air Program Information Management System (APIMS)**
- **Enterprise Environmental, Safety, and Occupational Health – Management Information System (EESOH-MIS)**



APIMS data



75TH AIR BASE WING

■ Stored APIMS information (air processes)

■ Emission source

- Process ID
- Air Quality Unique Identifiers System Identification (AQUIS ID)
- Location, source category, equipment, authorized materials, algorithms, and regulatory information

■ Emission Calculation

- Consumption
- Algorithms
- Emission factors



EESOH data



75TH AIR BASE WING

■ Stored EESOH information (bio processes)

- Activities affecting worker health
- AQUIS ID
- Hazardous material consumption
- Hazardous material information
 - specific gravity
 - density
 - chemical constituents
 - volatile organic compound (VOC)



Regulations and Inventories



75TH AIR BASE WING

- **Title V**
- **New Source Performance Standards**
- **National Emission Standards for Hazardous Air Pollutants (NESHAP)**
- **Air Emission Inventories (AEIs)**
 - Annual
 - Mobile
 - Greenhouse gas
- **Data calls**
 - EPA
 - AFMC
 - USAF headquarters
 - UDAQ



Title V Certification Data

75TH AIR BASE WING

■ Major source

- 10 tons/yr of a hazardous air pollutant (HAP)
- 25 tons/yr of any combined HAP
- 100 tons/yr of any other air pollutant

■ Conditions

- HAFB
 - 51 source-specific conditions
 - 9 source-wide conditions
- UTTR
 - 16 source-specific
 - 5 source-wide

■ Process Questions and Comments



Question and Comment

75TH AIR BASE WING

- Tank Usage Log
- Boiler Usage Log
- Generator Usage Log
- Refrigerant Log
- Emission Calculations**
 - Source Category
 - Emission Calculation
 - Tank Emission Calculation
 - Usage Log Summation
 - Emission Inventory Submittals
- Data Management**
 - API Interface
 - Data Export Jobs
 - EESOH-MIS Interface
 - Job Management
- Compliance Management**
 - Compliance Assessment
 - Regulatory Document
- System**
 - Help Desk: 1 (800) 274-4406
 - Email: apims@ngc.com
 - Help & System Documentation
 - About APIMS

Process Questions

10 records found.

Edit/View Delete Create

Question ^	Y/N	Comments
☐ AEI REPORTABLE (EAEI)	Y	172017
☐ DATA SOURCE	Y	12MRT
☐ EMC AIR OVERSIGHT INSPECTABLE SOURCE	Y	1 ANNUAL:
☐ GRANDFATHERED	N	
☐ MIGRATED TO EESOH-HAZMAT	Y	
☐ MRR REPORTABLE	Y	
☐ SUBJECT TO AEROSPACE NESHAP	Y	NOT COVERED:
☐ SUBJECT TO APPROVAL ORDER	Y	DAQE-733-00
☐ SUBJECT TO MAIN BASE TITLE V	Y	CONDITION 4
☐ UEC INSPECTABLE SOURCE	N	0 NOT INSPECTED: NOT IMPLEMENTED

Done

Trusted sites | Protected Mode: Off 100%



Report Certification



75TH AIR BASE WING

■ Tenant Organizations

■ Report routing

■ Due dates

- Main Base Title V and Aerospace NESHAP - 90 days
- UTTR Title V – 60 day
- Various NESHAP – 30 days



12 Month Rolling Data

75TH AIR BASE WING

■ 12 Month Rolling Total (MRT)

- Consumption or emission limit for some emission sources
 - Example: Non-chemical depainting not to exceed 2,350 tons of media throughput
- 20 Title V conditions
- 274 processes (emission sources) in the database
- Capability to import large amounts of data at once

■ Quality Assures data on monthly basis

- Monthly consumption records
- 50% of data is already entered at the end of reporting period



Emission Inventories



75TH AIR BASE WING

- **Maintenance and Organization of Data**
 - **Process Question and Comment**
 - **Association with another air source**
 - **Contact**



Emission Inventories



75TH AIR BASE WING

- Boiler Usage Log
- Generator Usage Log
- Refrigerant Log
- Emission Calculations**
 - Source Category
 - Emission Calculation
 - Tank Emission Calculation
 - Usage Log Summation
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Process Questions

9 records found.

Edit/View Delete Create

Question ^	Y/N	Comments
☐ AEI REPORTABLE (EAEI)	Y	8961
☐ DATA SOURCE	Y	12MRT; USES TANK 34567
☐ EMC AIR OVERSIGHT INSPECTABLE SOURCE	Y	1 ANNUAL:
☐ GRANDFATHERED	N	
☐ MIGRATED TO EESOH-HAZMAT	Y	
☐ MRR REPORTABLE	N	
☐ SUBJECT TO AEROSPACE NESHAP	N	
☐ SUBJECT TO MAIN BASE TITLE V	Y	CONDITIONS 8,47,51,52
☐ UEC INSPECTABLE SOURCE	N	0 NOT INSPECTED:

Done

Trusted sites | Protected Mode: Off 100%



Emission Inventories



75TH AIR BASE WING

■ EESOH material inventory

- Consumption data
- 2010 AEI ~ 400,000 records

■ Data calls

- Greenhouse gas
- Sulfur hexafluoride
- Refrigerants
- Residual Risk
- Boilers



Hazardous Material Data

75TH AIR BASE WING

■ Process calculations based on hazardous material consumption:

- Surface coating
- General solvent usage
- Paint gun cleaning
- Chemical stripping and depainting
- Thermal metal spray
- Nondestructive inspection
- Process tanks

■ Essential chemical information

- Chemical Abstract Service (CAS) number
- Chemical name
- Pollutant category

■ Material information



Summary



75TH AIR BASE WING

- **Having a central database is essential for the HAFB Air Quality program.**
 - Central database is necessary to prepare AEI's
 - Maintain Title V and NESHAP compliance
 - Maintain and organize a large number of sources
 - Save time by using process question and comment fields
 - Monthly consumption totals
 - Storage of material data



Questions?



75TH AIR BASE WING
