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What is APIMS?

- **Air Program Information Management System**
  - Comprehensive Air Quality management database

- **Owned by the Air Force**
  - Available to all DoD installations

- **Supports requirements of AFI 32–7040 Air Quality Compliance and Resource Management**

- **Used to drive use of standard calculation methods**
  - AFCEE AEI guidance documents
  - AP–42 emission factors
History of APIMS

- Air Force Surgeon General (SG) Serves as CCS/APIMS Technical Program Office of Record
  - Feb 00: APIMS PMO Chartered by ILEV; Hill AFB
  - Sep 09: SG Migration to DOENRS complete
  - Aug 10: PMO Transition to AFCEE
- System Control Shifts from SG to CE
- APIMS PMO Manages System

APIMS Developed and Sustained as Module of the Command Core System (CCS)
- Sep 98: Core AEI Module Completed
- Sep 01: Compliance Assessment Module
- Sep 07: EESOH-MIS Interface
- Sep 07: Oracle 11g Upgrade Version 5.0
- Dec 07: Consolidation of Databases to Hill AFB Platform

APIMS Sustained as Air Quality System
- Jun 10: Conversion to Java Version 6.0
- Jun 10: Host Platform Moved to DISA
- Dec 11: Oracle 11g Upgrade Version 7.0

Hill AFB Pilot & Phased Implementation
- Oct 09:hill A FB Pilot & Phased Implementation

AFMC
- AMC & AFSPC Pilots

PACAF
- ACC
- Army Southeast Region - ForceComm
- AETC

Navy Mayport & Sub Base New London Pilot

ACC
- ANG Pilots

Army Southeast Region - ForceComm
- Ft. Hood; Ft. Lewis; Ft. Carson; McAlester AAP

AETC
- Camp Lejeune

AF-Wide Implementation & Stabilization
Why APIMS?

- **Data Consolidation**
  - 200+ different AEI formats being condensed to a single electronic format

- **Data Standardization**
  - Facilitates data rollups & simplifies data calls
  - Drives uniformity in calculation methodologies

- **Improving Data Quality**
  - Single data standards repository
  - Fewer errors
Why APIMS?

- Web-based, centrally hosted and easily accessible
- Only Air Quality compliance system that satisfies DoD/AF cyber security requirements
- Meets requirements of all tiers of the Air Force enterprise
- Funding constraints
  - Development/maintenance of redundant IT systems too expensive
  - simplifies generation of AEIs & reduces cost
Multi-Tier Enterprise System
Stakeholders

Tier 1
Air Staff
AFCEE

Tier 2
Major Commands

Tier 3
Base-Level Users
Supports Base Requirements

- **Air Emissions Calculations**
  - Stationary Source Inventories
  - Mobile source inventories
  - Potential to Emit (PTE) calculations
  - Compatibility with State reporting systems
  - EPA Tanks 4.09D integrated & simplified

- **Greenhouse Gas Management**
  - Executive Order 13514
  - Mandatory Reporting Rule
    - Capability to export to EPA e-GGRT database planned

- **Permit Management**
  - Upload copies of permits
  - Documentation of permit conditions/requirements
Supports Base Requirements

- **Compliance Checking & Corrective Action**
  - Checklist & inspection result management
  - Corrective action tracking

- **Workbasket / Workflow**
  - Task scheduling & reminders
  - Compliance notifications

- **Ozone Depleting Chemical (ODC) Management**
  - Refrigerant compliance (40 CFR Part 82)

- **Record Repository**
  - Upload and store any image or compliance document

- **Quantitative Compliance**
  - Rolling totals (hourly/daily/monthly/yearly)
  - Material and emission limits vs. permit limits
Supports Base Requirements

- Interfaces with EESOH–MIS
  - Automates transfer of hazardous material and usage data (20,000 – 300,000 records per year)
- Pre-loaded, Stewarded & Standardized Calculation Data Set (> 30,000 records)
  - Source categories/algorithms/emission factors
  - Ability to create custom calculation methodologies
- Reduced data call burden
  - Data readily available to upper tiers of the enterprise
Enterprise Management Features

- Single Repository for Air Quality Data
- Attainment status visibility
- Instant access to permit information
- Use of emission calculation standards drives data uniformity and accuracy
Enterprise Management Features

- Online submittal of AEI for enterprise review
Enterprise Management Features

- Real-time data visibility & trend analysis
- Drill-down enterprise data rollups
Lessons Learned

- Optional use of an enterprise solution = inconsistent use
  - Many users reverted back to historical nonstandard data management methods

- Adequate system sustainment budget needed to keep system viable
  - Keep up with current technologies or users grow restless
  - Make software changes to meet evolving requirements

- Provide users with bulk data loading capabilities
  - Application Program Interface (API)

- Reduce duplicate data entry – deploy to shop floor
  - Let shops enter their own emission source throughput data
  - Air Quality manager validates before use
User Support Services

- Help Desk
  - (800) 274–4406 or apims@ngc.com
  - Available 7:00 AM – 6:00 PM Central
- Ad-hoc reporting Support
  - Call help desk for custom reporting support or
  - Write your own reports using Oracle Discoverer
- Training
  - Beginner training 3-day hands-on course at PMO office
  - Training guides available for download in APIMS
  - Monthly refresher webinars
- Technical Advisory Group (TAG) participation
- Software upgrades
  - Including user-submitted change requests
Future of APIMS

- Use of APIMS to be mandated by AFI 32–7040
  - Revision in final coordination
- Complete Air Force–wide implementation
- CAA section 118 compliance
  - Self certification of emissions certificate for POVs
- Defense Environmental Programs Annual Report to Congress (DEP ARC) reporting
  - Proof of concept for Air Quality in work
- Improve data standards maintenance capability
  - Consolidate duplicate data sets to a single set
APIMS PMO POCs

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