



**EPA Office of Compliance
Enforcement Targeting and Data Division**

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San Joaquin Valley Air Pollution Control District

Fresno California



Population 3.2 million
25,000 square miles

- ▣ **220 Title V Facilities**
- ▣ **200 SM Facilities**
- ▣ **8,000 Minor Facilities**
- ▣ **450 Farms (permits)**
- ▣ **6,500 Farms (dust control plans)**
- ▣ **7,000 Registered farm engines**



2002 Data Modernization Project

- ▣ Enforcement and Compliance Assurance Grant
- ▣ Update and revise internal databases
- ▣ Develop an automated system to send enforcement data to AFS
- ▣ Completed in 2006



Programs that provide AFS data for reporting

- **Permit Administration System**
- **Labor Information System**
- **Title V Report Tracking**
- **Source Testing**
- **Notice of Violation**
- **Data Harvest and Batch Processing**



Data Reported - weekly

- ▣ Partial Compliance Evaluations
- ▣ Source Test p/f with date
- ▣ Compliance Cert Received Date
- ▣ Compliance Cert Review Date
- ▣ Full Compliance Evaluation Date
- ▣ HPV data - linked



Number of Data Cards Sent via Automated Process

- ▣ Partial Compliance Evaluations (4400)
- ▣ Source Test P/F (5300)
- ▣ Compliance Certification Received (550)
- ▣ Compliance Certification Review (400)
- ▣ Full Compliance Evaluations (260)
- ▣ HPV data – linked (460)



Automated Data Upload Process Overview

- ▣ Harvest and Create Data Cards
- ▣ Upload Data Cards To AFS and Download AFS Output Files
- ▣ Parse Output Files



Harvest and Create Data Cards

- Query District databases for data that needs to be uploaded to AFS
- Create the appropriate batch card(s) for items to be uploaded
- Update District databases to identify items that have had cards generated for them



Upload Data to AFS and Download AFS Output Files

- Use IBM Host On Demand (HOD) Toolkit and District created custom JAVA applications to:
 - Connect To AFS
 - Send Batch Card Files to AFS
 - Send Commands To Process Card Files as 'Overnight' Jobs
 - Download the Batch Job 'Accept' and 'Reject' Files to District

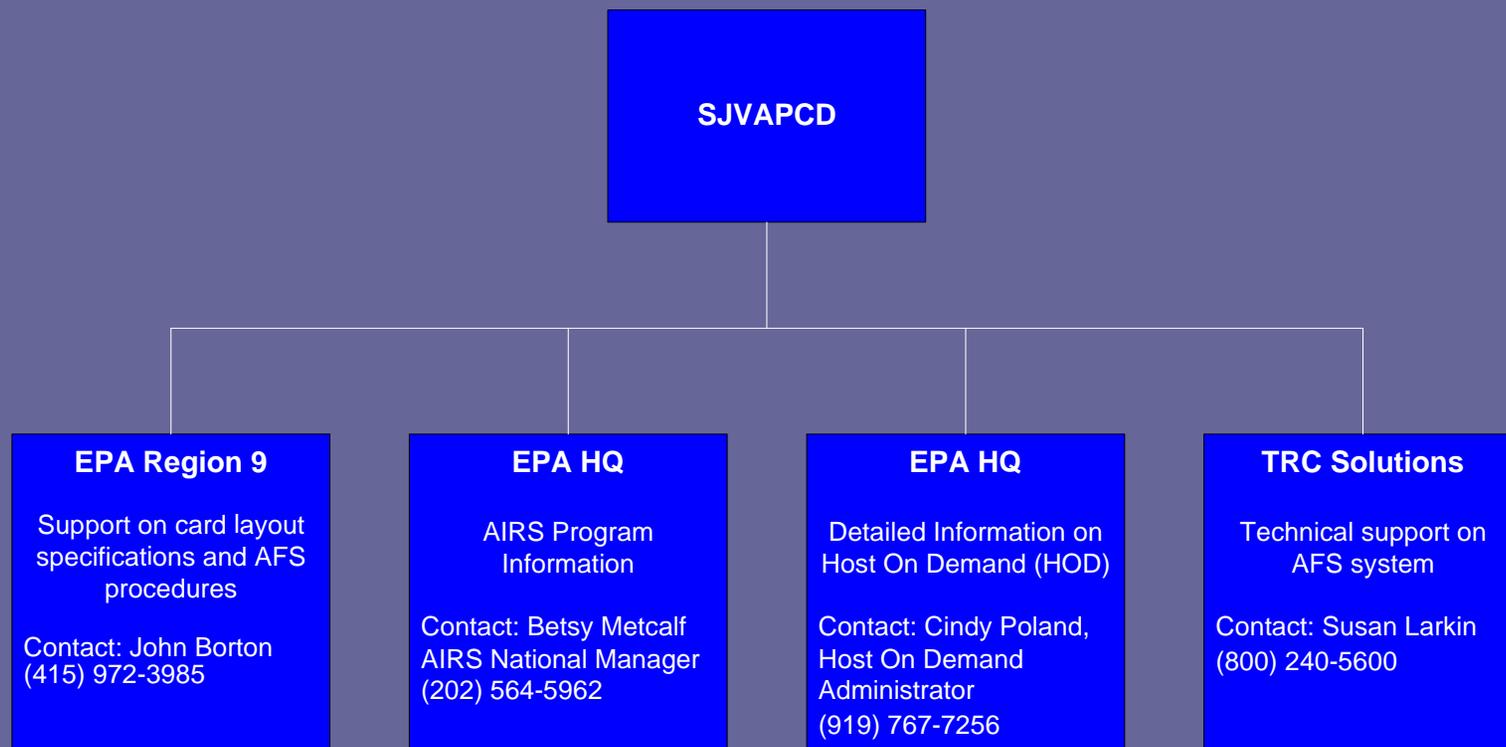


Parse Output Files

- ▣ Parse the Batch Job 'Accept' and 'Reject' files to:
 - ▣ Update District databases to indicate records that have been successfully entered into the AFS system
 - ▣ Update District databases with AFS 'Key Action Number', this allows subsequent HPV Cards to be 'Linked' with the originating HPV card



Air District – EPA Automated Data Upload Relationships



Automated Data Upload

Key Technologies

- ▣ IBM Host On Demand (HOD) Access Toolkit, which contains the following detail item:
 - ▣ Host Access Class Library for Java (HACL)



IBM Host On Demand (HOD) Access Toolkit

- Allows remote client workstations to connect to the EPA AFS system via an internet session
- Provides the needed functionality for manual data entry and batch file submittal to the AFS system
- Contains an application programming interface (API) called Host Access Class Library For Java. This API allows for automated data transfer between the Air District and the AFS system via custom developed JAVA applications



Host Access Class Library for Java (HACL)

- HACL for Java is a set of programming interfaces that allow the following actions to be performed via a custom program with no user interaction:
 - Open a session to the AFS System
 - Read and write to the AFS presentation space (Imaginary screen)
 - Transfer Files to and from AFS

