Station Operations

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Supervisor – Air Monitoring Program

Overview

- Data
- Systems
- Training
- Documentation
- Additional Resources

Data – The foundation of our work

- Data collected by monitoring staff is used for:
  - CAAQS & NAAQS
  - Attainment Plans
  - Attainment Strategies
  - Air Quality Forecasting
  - Real-time Public Advisory
  - Smoke Management – Ag, Prescribed, Training
  - Research and Analysis
  - and more…

Data – The foundation of our work

- Our end product is data
  - Good quality
  - Meet regulatory requirements
  - Defensible

Quality System

You

Data Center

AUDIT

NIST
Primary Standards Laboratories
Standards Laboratories (UII Lab)
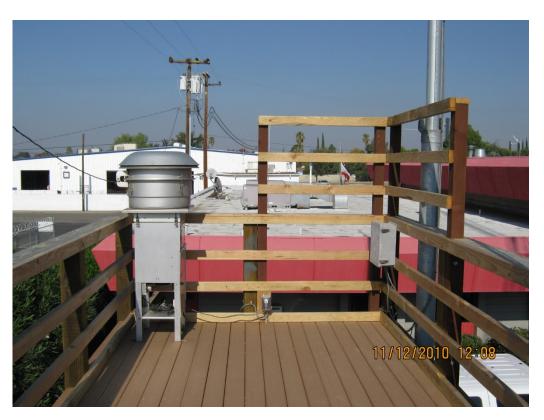Calibration Laboratories

Quality System

- A mechanism that ensures data is complete, accurate and of high quality that can be used for various purposes
    - Standard Operating Procedures
    - Data Quality Objectives
    - Tech Bulletins/Memorandums
    - Corrective Actions
    - Maintenance, Repair & Calibration Records
    - Automated data validation & notifications
- Maintaining this complex system is critical to demonstrate confidence and success in the data produced

Quality System

- Consistency
  - Standardized procedures
  - Remedial training
  - Attention to detail
- Monitoring Site/Equipment observations
  - Site operating conditions – Temp, RH?
  - Site organization
  - Abnormal responses from routine checks
  - Noise
  - Support equipment for monitors – sample system, communication equipment

Quality System

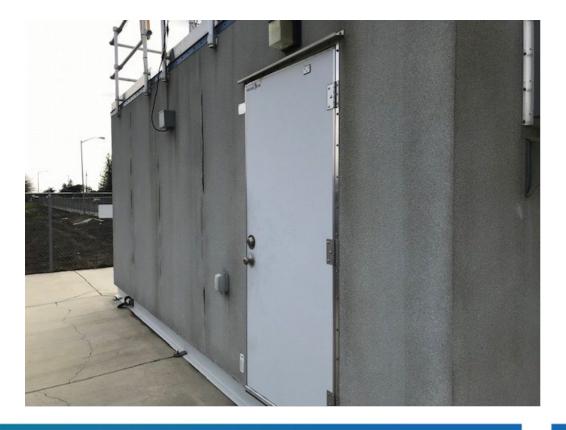## Fresno-Drummond - 2010

Fresno-Drummond - 2018

Quality System

Manteca – New Site - 2010

Manteca - 2018

Quality System

- Preventative Maintenance
  - Anticipate failures
  - Exceptional event impacts
  - Inventory system – Equipment & spare parts
  - Reviewing diagnostic data
  - Modifying alert systems based on historical events

Training

- Training is essential component for all staff
  - Technical Training
  - Instrument Software
  - Data Management Systems Training
  - Vendor Support Training
  - Inter-District training with other technicians
  - Video conference

Documentation

Documentation

- If it is not documented, it did not happen
  - Informative
  - Clear and concise
  - Captures details that will justify data validation/invalidation
  - Content connects with other key areas during review
    - Logbook entries
    - Repair, Maintenance, & Calibration records
    - CANs & AQDAs

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Additional Resources

- Trainings After Lunch
  - Station Operations – A Day in the Life
  - Station Operations Q & A

- Google Tech Group
  - Contact Karl Tupper – ktupper@co.slo.ca.us

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