Subcommittee 3

Data Management & Quality Control

# Main Session

Data Validation Template

25 minutes – Should be scheduled before data validation level breakout

Speaker ideas: Reggie Smith, ? (Ventura APCD), Karl Tupper (San Luis Obispo APCD), Nathan Trevino (San Joaquin Valley APCD)

* Breakdown of Criteria (5 minutes)
  + For each: how defined, why do we do them, ramifications if not met
    - Critical
    - Operational
    - Systematic
  + Where to find the criteria
* What if you do not met criteria (5 minutes)
  + What should the site operator do?
  + Corrective action?
* What if my data is valid? (7 minutes)
  + AQS flagging (1 slide)
  + Compelling evidence documentation
    - What is it
    - How is it done
    - Who does it (It may depend, but someone must do it)
* Data validation levels (3 minutes)
  + Overview
  + State that breakout session will expand (mention date and time)
* Q&A (5 minutes)

Why QC Program is Critical

20 minutes (as long as Q&A Session directly follows) Otherwise 30 minutes

Speaker ideas: EPA Michael Flag or Ann Mayburst & Local district that have had some issues but have been able to solve perhaps Ventura, Monterey, Sacramento Metro or Mallory Ham

* EPA portion (10 minutes)
  + Why QC program is critical
  + What is EPA looking for?
    - New QC requirements
    - Common findings
* District portion (10 minutes)
  + District View on how to implement QC
    - Ozone focus
    - Perhaps one additional slide on other gases
    - How does this effect data quality?
      * What time frame of data?
    - Cost of resources
      * Staff
      * Equipment
      * Updates
      * More site visits
      * Impacts
  + Lessons learned
    - Truncations
    - Required levels
* Q & A Session afterwards (either official or as a part of this talk)

# Break Out Sessions

AQS Data Codes/Consistency of Null Code Usage

40 minutes

Proposed speaker: Kimberly Mitchell (Great Basin Unified APCD)

* Pre-work
  + Survey
    - Kim will design and team will provide feedback
    - 6 questions
    - When coding do you have situations where you could use more than one code? Which to you pick and why?
    - Send to ARB PQAO list serve
  + Data pull/analysis
    - Aman will pull data
    - PM2.5 and ozone Null Codes
* Open discussion
* Will present findings from survey and data pull
* Interactive examples
* Consistency will be recommendations not requirements
* Paper on tables or walls to make notes

Data Validation Levels

40 minutes

Speaker ideas: ? (Santa Barbara APCD), Joel Craig (Environmental Consultant), Chris Howard (Great Basin Unified APCD) Prefer a district with SOP

* Slides from Reggie Smith’s presentation can be used as a jump off point
* Levels
  + Who does what?
  + What is required?
  + What if we don’t have three levels?
  + Using DMS to assist level 1
* Documentation
  + Station logs
* Levels of flagging
  + Types of AQS codes
  + Every time frame (1hr, 5min, etc) must be accounted for
* District examples (small district, big district, ARB)
  + Each will address
    - Levels
    - Validation form

Electronic Log Book Case Study

40 minutes

Proposed speakers: Brian Russell/Kimberly Mitchell (Great Basin Unified APCD) and EarthSoft EQuIS or Sonoma Technology Inc. eSIMS

* Introduction
  + Regulation requirements
* Two examples of electronic log books – one in house and one out of the box
* Each will address
  + Security
    - Login protection
    - Access levels
    - Audit of changes
    - Data security
    - Backups
  + Cost of program
  + Development
    - Share knowledge (open source solutions)
  + Ease of operation
  + Platforms

Met data (validation, open forum)

40 minutes

Proposed speaker/facilitator: Charlie Knoderer (Bay Area APCD) & Honza (CARB – wind tunnel)

* Open discussion on tips and tricks
* Conversation starter ideas
  + Talk of using data management systems to help
  + Audits
    - Timing (more than required to prevent data loss)
    - Best Practices
    - Audit tools one instrument
  + Mechanical verse Sonic
    - Wind tunnel and data
  + Operations
  + Little guidance on validity