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