

A large, light green circular watermark with the letters 'AQS' in a bold, sans-serif font is centered in the background. The text 'AQS Webinar' and 'April 2013' is overlaid on this watermark in a bold, black, serif font. The top of the slide features a dark green curved banner.

AQS Webinar

April 2013

The webinar will start shortly...

**For instructions on using webinar software,
see the AQS TTN Training page**

<http://www.epa.gov/ttn/airs/airsaqs/training/>



- Agenda
 - Welcome
 - Presentations
 - Certification (Lew Weinstock and Robert Coats)
 - AQS update (Robert Coats)
 - User Support (Nick Mangus)
 - Questions and Answers (if time allows - all)
 - Q& A session – use Question pane to submit your questions
- Who should attend today
 - Anyone who certifies data or is involved in the certification process
- If you need help using GoToWebinar
 - Go to : AQS TTN : Training : Using GoToWebinar

Purpose of Webinars



- Welcome to the second AQS “Quarterly Webinar”
- In-person conferences are:
 - Hard (expensive) to get to
 - Infrequent
 - No AQS in-person conference this year
- We’re now having regular webinars to communicate information about AQS
- Each webinar will be given twice
 - Same webinar repeated at a different time to accommodate schedules
 - Webinar slides and recording will be posted on TTN
- License expires on GoToWebinar
 - We may be moving to new software
- Possible topic for next webinar (~July?)
 - Update on P&A changes



Data Certification - The Process

Data Certification – The Basics

- Formal statement attesting to ambient data completeness and accuracy
- Submitted by monitoring agencies to EPA on annual basis
- Process that combines a required action followed by a discretionary EPA review





Former Process (through last year)

CFR
Requirement?

Y

State Letter from Senior Official is submitted

AMP 450 + AMP450NC + AMP 255

Due: May 1 of each year

Data are now certified

N

Regional Administrator Review

Check for completeness of selected parameters & QA

N

OAQPS Review

Check for completeness of selected parameters & QA

Manually set concurrence flags in AQS by monitor

Incomplete

Incomplete

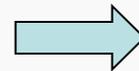
Issues with Former Review Process

- Data reviews were manually intensive, often involving hundreds of individual monitors per state
- AQS flag setting decision(s) lacked explicit criteria for a “Y” or “N”
- Process was overwhelmed by early and regular certification submittals, therefore AQS flag setting has been haphazard at best for current and historical data
- Concurrence flags disappeared when data values were changed on a previously certified and concurred monitor



How are we fixing the process?

- Developed an AQS report that summarizes key information needed to support timely and consistent reviews
- Partially automate the AQS flagging process to reduce manual workload
- Share workload to make overall task more manageable
- Longer term – consider CFR changes to focus requirement on criteria pollutants only (e.g., drop requirement for PAMS, CSN)



- ✓ Working with AQS Team to develop certification assessment (April 2013)
- ✓ Incorporated automated flagging into concept
- ✓ EPA regional monitoring contacts are sharing responsibilities
- ✓ Considering CFR changes as part of Ozone NAAQS proposed rule in 2013



Revised Process (beginning this year)

CFR
Requirement?

Y

State Letter from Senior Official is submitted

AMP 600 + AMP 450NC

Due: May 1 of each year

Data are now certified

N

**Regional Administrator Review and
Concurrence**

Check AMP600 and concur with recommended/submitted certification flags

Check AMP450NC for correct monitor selections

Set Flags in AQS by monitor



Which parameters must be certified this year?

- The specific CFR based certification requirements described in section 58.15 will apply unchanged for this year's process
- Monitoring agencies should certify the same pool of monitors that were certified in previous years (described in detail in the CY2011 certification Q&A document distributed in March, 2012). [next slide]
- EPA recommends the use of the new AMP600 data certification report for this process
 - Since the AMP600 has been developed for criteria pollutants only, elements of the former process will be needed until CFR changes can be finalized.

Which parameters must be certified this year?

All data from SLAMS* monitoring stations must be certified including criteria pollutant and other pollutants from the following monitors (* and SPM's using FRM or FEM methods)

- Federal reference method (FRM) or Federal equivalent method (FEM) monitors for CO, NO₂, SO₂ (hourly and 5-minute average data), ozone, Pb-TSP, Pb-PM₁₀, PM₁₀, PM_{10-2.5}, and PM_{2.5}
- Continuous PM_{2.5} monitors
- Filter-based PM_{2.5} speciation monitors - (total mass and speciated components)
- NCore station precursor gas monitors for CO, SO₂, and NO/NO_x/NO_y
- PAMS data (ozone, NO/NO_x/NO₂, VOC, carbonyl, NH₃, and HNO₃ if collected)



Which items must be submitted to the RO by May 1, 2013?

- Signed letter from senior air pollution control officer referencing monitors being certified (same as last year)
 - Required Language for the Certification Statement - The certification statement from the responsible State or local official must indicate that (1) the ambient concentration data *and the quality assurance data* are completely submitted to AQS, and (2) the ambient data are accurate to the best of his or her knowledge *taking into consideration the quality assurance findings*.
- AMP600 for criteria pollutants (new)
 - Don't need the Quick Look (AMP450) or AMP255 QA report any more
- AMP450NC for non-criteria pollutants (same as last year)



Which items must be submitted to the RO by May 1, 2013?



DEPARTMENT OF AIR QUALITY & ENVIRONMENTAL MANAGEMENT
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 (702) 455-5942 • Fax (702) 383-9994
 Lewis Wallenmeyer Director • Tina Gingras Assistant Director

February 28, 2012

Mr. Jared Blumenfeld, Regional Administrator
 Environmental Protection Agency - Region 9
 Technical Support Office, Air Division
 75 Hawthorne Street
 San Francisco, CA 94105

Dear Mr. Blumenfeld:

This letter is intended to satisfy the monitoring data subject to certification for State and Local Air Monitoring Stations (SLAMS) that meet criteria in 40 CFR 58 Appendix A from January 01, 2011 to December 31, 2011. The ambient concentration data and the quality assurance data are completely submitted to Air Quality System (AQS) by Primary Quality Assurance Organization (PQAO) 0226 Clark County, NV, Department of Air Quality and Environmental Management (DAQEM).

Attached are the following AQS generated reports:

- AMP450 (Quick Look Criteria Parameters) report covers CO, NO₂, SO₂, O₃, PM₁₀, and PM_{2.5} (FRM).
- AMP255 (Quality Indication Summary) report summarizes the quality assurance data for each of the AMP450's pollutants.
- AMP450NC (Quick Look Non-Criteria Parameters) report covers NO, NO_y, SO₂ (five minute), and PM_{2.5} (continuous C-14 88502 method).
- AMP450NC for Speciation report covers PM_{2.5} speciation data submitted to AQS by the laboratory contractor.

Summer Ozone Study

Ozone parameter 44201 POC 4 does not meet 40 CFR Part 58 Appendix A and DAQEM is excluding those seasonal monitors from this certification. This was a special purpose effort to measure ozone transport at higher elevation levels into and out of Clark County.

Speciation

DAQEM operates the PM_{2.5} monitors associated with speciation. DAQEM does not submit data for the operation of these samplers to AQS. DAQEM has submitted all filters, QC data, and relevant operational data for the certifying period to Research Triangle Institute (RTI). Review of data reported to AQS by RTI has been completed and any corrections noted have been submitted to DEPO (Delivery Order Project Officer).

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 Don Burnette, County Manager

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: LFW Data Certification Report

Report Request ID: 1052868 Report Code: AMP600 Mar. 22, 2013

GEOGRAPHIC SELECTIONS															
Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region	Method	Duration	Begin Date	End Date
37															

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration
CRITERIA	44201		

SELECTED OPTIONS	
Option Type	Option Value
MERGE PDF FILES	YES

GLOBAL DATES	
Start Date	End Date
2012	2012

AMP600

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: LFW QUICKLOOK ALL PARAMETERS

Report Request ID: 1052890 Report Code: AMP450NC Mar. 25, 2013

GEOGRAPHIC SELECTIONS															
Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region	Method	Duration	Begin Date	End Date
37															

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration
SPECIATION			

SELECTED OPTIONS		SORT ORDER	
Option Type	Option Value	Order	Column
EVENTS PROCESSING	EXCLUDE REGIONALLY CONCURRENT EVENTS	1	STATE_CODE
MERGE PDF FILES	YES	2	COUNTY_CODE
		3	SITE_ID
		4	PARAMETER_CODE
		5	POC
		6	DATES
		7	EDT_ID

APPLICABLE STANDARDS	
Standard Description	
PM25 24-hour 2006	

AMP450NC



Next Steps Following May 1 Submittal

- EPA Regional Office staff will begin reviewing certification packages following submittal and adding concurrence flags in AQS for criteria pollutants
 - Follow-up conversations for incomplete submittals or questions regarding AMP600 recommended versus requested flags
- Longer term – OAQPS will pursue changes to focus the certification requirement on criteria pollutants

Coming up next in the webinar: Data Certification – AQS Features and Reports

- How to run the new AMP600 Data Certification report
- Explaining the meaning of the “AQS Recommended”, “Monitoring Agency Request”, and “Official Certification” flags
- Adding monitoring agency comments
- Utilizing the shortcut buttons on the report





Data Certification - AQS



Preliminaries – What has OAQPS done?

1. Created two new AQS components:
 - a) New Data Certification Report – AMP600
 - b) New Certification form for recording state/local/tribal certification requests
2. Created a new monitor agency role, “Certifying Agency”, and assigned it to every active criteria pollutant monitor based on prior certification letter submissions to EPA regional offices.



Preliminaries: What should a certifying agency do?

1. Review the Certifying Agency role assignments:
 - a) Run the AQS Monitor Description Report – Will show all Agency Roles for each monitor.
 - b) Compare against Monitoring Network Plan
2. Use AQS (Batch MD transaction or Maintain Monitor) to correct any discrepancies.
 - a) Assumption: The monitor belongs to the Screening Group for the certifying agency or an agency that is subordinate to them.



The Procedure: What does an agency do?

1. Conduct and complete ambient air quality monitoring and QA as per 40 CFR Part 58 and submit all relevant data to AQS.
2. Run the Data Certification Report (AMP600) for your Certifying Agency.
 - a) This will calculate a recommended certification flag for each monitor-year based on Part 58 criteria and display the results for all monitors and PQAOs associated with the Certifying Agency.



Requesting a Data Certification Report

Standard Report Criteria Selection (North Carolina Edas) AMP600

Criteria Set | Monitor Selection | Area Selection | Sort Order | Report Options | Retrieve Reports

Criteria Set Desc

Owner Type

Report Code Report Name

Run Online
 Send via Email

Report Outputs

REPORT

Print Format

File Name

Report Selection Mode

Monitor Selection(detail)
 Area Selection

Must Click here



Request Criteria

Standard Report Criteria Selection (North Carolina Edas) AMP600

Criteria Set | Monitor Selection | Area Selection | Sort Order | Report Options | Retrieve Reports

Geographical Criteria

State Code

Agency

0776	North Carolina Dept Of Environment And Natural Res

Protocol Criteria

Pollutant Type	Parameter Code
CRITERIA	

Date Criteria

Start Date YYYY	End Date YYYY
2012	2012

Screening Group

Generate Report



The Procedure – Part 2: Data Review

3. Review the certification report. For 'N' recommendations (for example):
 - a) Has any ambient monitoring data not yet been submitted?
 - b) Has any QA/QC data (e.g. Precision and Accuracy transactions) not been submitted?
 - c) Should any ambient monitoring data be invalidated and removed from AQS based on QA/QC results?
4. Make corrections to AQS data as needed.
5. Rerun certification report and verify results are final.



Certification Report Summary

Certification Year: 2012
Certifying Agency: Maine D.E.P. Bureau Of Air Quality Control, Augusta (0635)

<u>Parameter Name</u>	<u>Code</u>	<u>Number of Monitors</u>	<u>Monitors Certified</u>	<u>Monitors Not Certified</u>
PM2.5 - Local Conditions	88101	12	8	4

<u>PQAO Name</u>	<u>PQAO Code</u>	<u>QAPP Approval Date</u>	<u>TSA Date</u>
Maine D.E.P. Bureau Of Air Quality Control, Augusta	0635	10/15/11	09/27/12

Summary of 'N' flags for all pollutants:				<u>AQS Recommended Certification</u>	<u>Cert. Agency Requested Certification</u>	<u>Reason for Recommendation Against Certification</u>
<u>PQAO</u>	<u>Code</u>	<u>AQS Site-ID</u>	<u>POC</u>			
0635	88101	23-003-0014	1	N		Annual Summary completeness < 70%.
0635	88101	23-005-0015	1	N		Monitors not assigned to a valid Monitor Type

Certification Report for Particulate Matter

Certifying Year: 2012
Certifying Agency: Maine D.E.P. Bureau Of Air Quality Control, Augusta (0635)

Parameter: PM2.5 - Local Conditions (88101)
PQAO Name: Maine D.E.P. Bureau Of Air Quality Control, Augusta (0635)
Quality Assurance Project Plan Approval Date:

Collocation Summary

<u>Method</u>	<u># Sites</u>	<u># Sites Req</u>	<u># Sites Collocated</u>	<u>% Collocated</u>	<u>CV Est</u>	<u>CV UB</u>	<u>Criteria Met?</u>
117	2	1	1	100	6.19	8.55	Y
118	7	1	1	100	8.10	10.09	Y

PEP Summary

<u># Methods</u>	<u># Audited Methods</u>	<u># PEP Required</u>	<u># PEP Submitted</u>	<u>% Complete</u>	<u>Bias</u>	<u>Criteria Met?</u>
2	1	8	6	75	+3.05	Y

Monitors Summaries

<u>AQS Site ID</u>	<u>POC Method</u>	<u>Monitor Type</u>	Routine Data (ug/m3)							Flow Rate Audit		Collocation		PEP	Certification			
			<u>Mean</u>	<u>Min</u>	<u>Max</u>	<u>Exceed. Count</u>	<u>Outlier Count</u>	<u>% Complete</u>	<u>Bias</u>	<u>% Complete</u>	<u>CV</u>	<u>% Complete</u>	<u>PQAO Crit. Met</u>	<u>PQAO Crit. Met</u>	<u>AQS Rec Value</u>	<u>Req Value</u>	<u>EPA Value</u>	
23-001-0011	1	118	SLAMS	7.10	1.4	20.7	0	75	+0.93	100			Y	Y	Y			



The Procedure – Part 3: Indicating request in AQS:

1. Access the Certification Form in AQS
2. Query the data for your certifying agency / year.
 - a) Can subset data by pollutant
3. Use the “shortcut” button at the bottom of the form, “Initialize monitoring agency requested values”
4. If you want to request a change to the recommended value:
 - a) Scroll to the line to be changed
 - b) Change the “Monitoring Agency Request” column value
 - c) Enter the justification in the Monitoring Agency Comment
5. When you are done, click save.



Query Criteria

Year Agency State

Classification Parameter Certification Flag

Certifications

Year	AQS Monitor ID	AQS Recommended Flag	Monitoring Agency Request	Official Certification Flag	Monitoring Agency Comment	Region Comment
2011	37-001-0002-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-021-0034-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-021-0034-88101-2	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-033-0001-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-035-0004-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-035-0004-88101-2	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-037-0004-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-051-0009-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-057-0002-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-061-0002-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-063-0015-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-065-0004-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-067-0022-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-067-0022-88101-2	N	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-067-0022-88101-3	N	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-067-0022-88101-5	N	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-067-0030-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-067-0030-88101-2	N	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-071-0016-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-081-0013-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-081-0014-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-087-0012-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-101-0002-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-107-0004-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		
2011	37-111-0004-88101-1	Y	<input type="checkbox"/>	<input type="checkbox"/>		

Shortcut Initialize Monitoring Agency Requested Values

Search Certifications

Requested Differs From Recommended

Assigned Differs From Requested



Possible Values of Certification Flag

Flag Value	Applicable Situation
Blank	Certification is not required by 40 CFR 58.15 and no conditions apply to be the basis for assigning another flag value
U	Uncertified. The state did not submit a required certification letter and summary reports for this monitor even though the due date has passed, or the state's certification letter specifically did not apply the certification to this monitor.
S	The certifying agency has submitted the certification letter and required summary reports. A value of "S" conveys no Regional assessment regarding data quality per se. This flag will remain until the Region provides an "N" or "Y" concurrence flag.
N	The certifying agency has submitted the certification letter and required summary reports, but EPA has determined that issues regarding the quality of the ambient concentration data cannot be resolved due to data completeness, the lack of performed quality assurance checks or the results of uncertainty statistics shown in the AMP255 report or the certification and quality assurance report.
Y	The state has submitted a certification letter, and EPA has no unresolved reservations about data quality (after reviewing the letter, the attached summary reports, the amount of quality assurance data submitted to AQS, the quality statistics, and the highest reported concentrations).
M	The certifying agency has revised data from this monitor since the most recent certification letter received from the state.



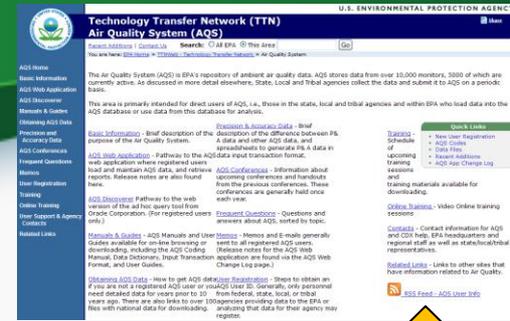
The Procedure – Part 4: Reports for Certification Package

1. Run the AMP600 report one last time to include with certification letter.
 - a) Report will show both AQS recommended value and Certifying Agency requested value, and Certifying Agency comments when different.
2. Run the AMP450NC report for non-criteria pollutants.



- AQS Certification Form and Report
- AQS Database Server Upgrade
 - Upgrade to server: 2x speed, 2x number processors
 - Scheduled Start: Friday, April 5, 2013 at 9:00 PM EDT
 - Scheduled Complete: Saturday, April 6, 2013 at 5:00 PM
 - Upgrade **should** be completely transparent – no operational changes for users

User Support Changes



- AQS RSS feed now live 
 - http://www.epa.gov/ttn/airs/airsaqs/aqs_user_info_rss.xml
 - Primary way for our outbound communication
 - Emails to users will **stop** in May (after certification winds down)
 - Please subscribe ASAP
 - Newbie info: http://en.wikipedia.org/wiki/News_aggregator
- AQS Team email (aqsteam@epa.gov) shutting down
 - Only confused the process and delayed responses
 - All inquiries should to go EPA help desk (“Call Center”)
 - epacallcenter@epa.gov
 - 866-411-4372
 - Write “AQS” in subject line or say early in conversation
 - Be as detailed as possible:
 - Form name (e.g., maintain monitor), Report name (e.g., data completeness)
- AQS should work with latest version of Java plug in
- EPA staff on furloughs (sequestration)
 - It may be harder to get hold of HQ and RO staffers

Questions?



- Type questions using the “question” pane on your control panel
- We will answer questions over the phone as time allows