

As of Monday, April 22, 2013

Assessment	Current CFR Requirement or Guidance	Green (Acceptable)	Yellow (Warning)	Red (Recommend N Flag)	Comments
Technical Systems Audit	PQAO every 3 years	TSA within 3 years	TSA within 4 years	TSA > 5 years	Not a monitoring Org responsibility. Will be reported on summary page not by pollutant
Gaseous Criteria Pollutants					
Routine Data Completeness	75%	≥80%	80-70%	<70%	Based on CFR criteria for data use 100* Number of hourly obs/number of hours in monitor sample period
QAPP Approval	Approval date within 5 years of current date	Approval date within 5 years of current date	Approval date between 5-10 years	Not approved and/or approval date greater than 10 years	Could be sole reason for "N" flag if QAPP not approved.
1-Point QC Completeness	75%	≥75%	65-75%	<65%	Based on 26, 1-point QC for a year. Calculated based on the number of days the monitor operated.
1-Point QC Precision	7% O3, 10% others	≤7% O3, 10% others	8-20% O3 11-25% others	> 20% O3 > 25% others	Based on all valid 1-point QC checks in AQS for the year. Value should reflect AMP255 value
1-Point QC Bias	+7% O3, ±10% others	≤+7% O3, ≤±10% others	+ 8-20% O3 ±11-25% others	> +20% O3 > ±25% others	Based on all valid 1-point QC checks in AQS. Value should reflect AMP255 value
Annual PE Completeness	1 PE/year 3 audit levels	1 PE/year 3 audit levels	1 PE/year 2 audit levels	No PE or 1 audit level	Will not count more than one actual value in an audit level. For example, two audit in one level count as 1 audit level.
Annual PE Bias O3 , SO2 , NO2	≤ ±1.5 ppb / ±15%	≤ ±1.5 ppb / ±15%	≤ ± 1.6-3.0 ppb / ± 16-25%	> ±3.0 ppb / ± 25%	Average PD of all PE values for the monitor
CO	≤ ±0.03 ppm/ ± 15%	≤ ±0.03 ppm/ ± 15%	≤ ± 0.04-0.06 ppm/ ± 16-25%	> ±0.06 ppm/ ± 25%	
NPAP Audit Completeness - PQAO	20% of sites in PQAO	20% of sites in PQAO	10-19% of sites in PQAO	<10% of sites in PQAO	Not a monitoring Org responsibility. Will be marked as "Y"
NPAP Bias	≤ ±10% O3 ≤ ±15% others	≤ ±10% O3 ≤ ±15% others	+ 11-20% O3 ±16-25% others	> ±20% O3 > ±25% others	median PD for all values at a site and median PD for PQAO level estimate
NPAP Audit Completeness - Site	4 levels	4 levels	2-3 levels	≤1 level	Not a monitoring Org responsibility
Outliers					See Attachment 4 not implemented in 2012
PM2.5 Criteria					
Routine Data	75%	≥80%	80-70%	<70%	Based on CFR criteria for data use 100 * number of creditable samples/number of

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Completeness					scheduled samples in monitor sample period
QAPP Approval	Approval date within 5 years of current date	Approval date within 5 years of current date	Approval date between 5-10 years	Not approved and/or approval date greater than 10 years	Could be sole reason for "N" flag if QAPP not approved.
Flow Rate Audit Completeness	2 /year every 6 months	2/year every 5-7 months or 3 or 4 with one audit in 3 or 4 quarters	2 across 2 quarters	1 audit	Semi-annual flow rate audits. Based on how long sampler operated. If sampler operates <9 months at least 1 is expected. If operated >9 months two audits expected.
Flow Rate Audit Bias	$\pm 4\%$ of transfer standard $\pm 5\%$ from design	$\leq \pm 4\%$ of transfer standard $\leq \pm 5\%$ from design	$\pm 5\text{-}6\%$ of transfer standard $\pm 6\text{-}7\%$ from design	$> \pm 6\%$ of transfer standard $> \pm 7\%$ from design	design =design flow rate Average PD for audits at monitor level Value should reflect AMP255 value
Collocation Completeness	75%	$\geq 75\%$	65-74%	<65%	By method designation Summary level= average of completeness of site level values Site level = number of reported observations /30 Based on how long sampler operated
Collocation Precision	10%	$\leq 10\%$	11-25%	>25%	By method designation Same statistics as AMP255 for summary level and site level. Value should reflect AMP255 value
PM2.5 PEP Completeness	5 or 8	5 or 8	3-4 or 6-7	< 3 or 6	Not a monitoring Org responsibility
PEP Bias	$\pm 10\%$	$\leq \pm 10\%$	$\pm 11\text{-}30\%$	$> \pm 30\%$	Value should reflect AMP255 value
Outliers					See Attachment 4, not implemented in 2012
PM10 Continuous Methods					
Routine Data Completeness	75%	$\geq 80\%$	80-70%	<70%	Based on CFR criteria for data use $100 * \text{number of valued strata (days per collection frequency)} / \text{total number of strata}$
QAPP Approval	Approval date within 5 years of current date	Approval date within 5 years of current date	Approval date between 5-10 years	Not approved and/or approval date greater than 10 years	Could be sole reason for "N" flag if QAPP not approved.
Flow Rate verification Completeness	75%	$\geq 75\%$	65-74%	<65%	12 audit per year, based on how long sampler operated
Flow Rate Verification Bias	$\pm 7\%$ of transfer standard	$\leq \pm 7\%$ of transfer standard	$\pm 8\text{-}9\%$ of transfer standard	$> \pm 9\%$ of transfer standard	Average of percent differences. Value should reflect AMP255 value
Flow Rate Audit Completeness	2 /year every 6 months	2/year every 5-7 months or 3 or 4 with one audit in 3 or 4 quarters	2 across 2 quarters	1 audit	Semi-annual flow rate audits Based on how long sampler operated. If sampler operates <9 months at least 1 is expected. If operated >9 months two audits expected.

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Assessment	Current CFR Requirement or Guidance	Green (Acceptable)	Yellow (Warning)	Red (Recommend N Flag)	Comments
Flow Rate Audit Bias	± 7% of transfer standard	≤ ± 7% of transfer standard	± 8-9% of transfer standard	>± 9% of transfer standard	Semi-annual flow rate audits. Value should reflect AMP255 value Average of percent differences
Outliers					See Attachment 4, not implemented in 2012
PM10 Manual Methods					
Routine Data Completeness	75%	≥80%	80-70%	<70%	Based on CFR criteria for data use 100 * number of valued strata (days per collection frequency) / total number of strata
QAPP Approval	Approval date within 5 years of current date	Approval date within 5 years of current date	Approval date between 5-10 years	Not approved and/or approval date greater than 10 years	Could be sole reason for "N" flag if QAPP not approved.
Flow Rate Audit Completeness	2 /year every 6 months	2/year every 5-7 months or 3 or 4 with one audit in 3 or 4 quarters	2 across 2 quarters	1 audit	Semi-annual flow rate audits Based on how long sampler operated. If sampler operates <9 months at least 1 is expected. If operated >9 months two audits expected.
Flow Rate Audit Bias	± 7% of transfer standard	± 7% of transfer standard	± 8-9% of transfer standard	>± 9% of transfer standard	Semi-annual flow rate audits. Value should reflect AMP255 value
Collocation Completeness	75%	≥75%	65-74%	<65%	Summary level= average of completeness of site level values Site level = number of reported observations /30 Based on how long sampler operated
Collocation Precision	10%	10%	≤ 11-20%	>20%	Same statistics as AMP255 for summary and site level. Value should reflect AMP255 value
Outliers					See Attachment 4, not implemented in 2012
Pb-TSP					
Routine Data Completeness	75%	≥80%	80-70%	<70%	Based on CFR criteria for data use 100 * number of creditable samples/number of scheduled samples in monitor sample period
QAPP Approval	Approval date within 5 years of current date	Approval date within 5 years of current date	Approval date between 5-10 years	Not approved and/or approval date greater than 10 years	Could be sole reason for "N" flag if QAPP not approved.
Flow Rate Audit Completeness	2 /year every 6 months	2/year every 5-7 months or 3 or 4 with one audit in 3 or 4 quarters	2 across 2 quarters	1 audit	Semi-annual flow rate audits Based on how long sampler operated. If sampler operates <9 months at least 1 is expected. If operated >9 months two audits expected.
Flow Rate Audit Bias	± 7% of transfer standard	± 7% of transfer standard	± 8-9% of transfer standard	>± 9% of transfer standard	Semi-annual flow rate audits. Value should reflect AMP255 value
Collocation Completeness	75%	≥75%	65-74%	<65%	Summary level= average of completeness of site level values Site level = number of reported observations /30 Based on how long sampler operated

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Assessment	Current CFR Requirement or Guidance	Green (Acceptable)	Yellow (Warning)	Red (Recommend N Flag)	Comments
Collocation Precision	20%	20%	21-30%	>30%	Same statistics as AMP255 for summary and site level
Pb PEP Completeness	5 or 8	4 or 7	3 or 6	< 3 or 6	Not a monitoring Org responsibility
Pb PEP Bias	±15%	±15%	± 15-25%	>± 25%	Average PD
Analysis Audit Completeness	75%	≥75%	65-74%	<65%	Average completeness by quarter than take average of all 4 quarters
Analysis Audit Bias	10%	10%	≤18%	>18%	Average PD
Outliers					See Attachment 4, not implemented in 2012
Pb-PM10					
Routine Data Completeness	75%	≥80%	80-70%	<70%	Based on CFR criteria for data use 100 * number of creditable samples/number of scheduled samples in monitor sample period
QAPP Approval	Approval date within 5 years of current date	Approval date within 5 years of current date	Approval date between 5-10 years	Not approved and/or approval date greater than 10 years	Could be sole reason for "N" flag if QAPP not approved.
Flow Rate Audit Completeness	2 /year every 6 months	2/year every 5-7 months or 3 or 4 with one audit in 3 or 4 quarters	2 across 2 quarters	1 audit	Semi-annual flow rate audits Based on how long sampler operated. If sampler operates <9 months at least 1 is expected. If operated >9 months two audits expected.
Flow Rate Audit Bias	± 4% of transfer standard	≤ ± 4% of transfer standard	± 5-6% of transfer standard	> ± 6% of transfer standard	Semi-annual flow rate. Value should reflect AMP255 value
Collocation Completeness	75%	≥75%	65-74%	<65%	Summary level= average of completeness of site level values Site level = number of reported observations /30 Based on how long sampler operated
Collocation Precision	20%	20%	21-30%	>30%	Value should reflect AMP255 value
Pb PEP Completeness	5 or 8	5 or 8	3 or 6	< 3 or 6	Not a monitoring Org responsibility
Pb PEP Bias	±15%	±15%	± 16-25%	>± 25%	
Analysis Audit Completeness	75%	≥75%	65-74%	<65%	Based on 24 audits per year
Analysis Audit Bias	10%	10%	≤18%	>18%	Average of percent differences. Value should reflect AMP255 value
Outliers					See Attachment 4, not implemented in 2012

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Other Flags

Table	Field	Code	Summary	Comments
	Monitor Type	Invalid	Monitor not assigned to a valid Monitor Type	Monitor type listed as NCore or PAMS, without second SLAMS Monitoring type listed, or monitor type listed as "other"
PM2.5 Collocation, Monitor Summary	PQAO Criteria Met	N	PQAO level collocation not met Method designation not covered	If the PQAO acceptance criteria at the summary level is not met then an "N" is placed in any monitor row represented by that method designation. At times a method designation may not have been collocated with a like method designation. In that case an "N" will be placed in any method designation that did not have a collocation represented for that method designation.
Pb	Analysis Audit Criteria Met			