Minor Changes to the January 2017 Validation Templates

After revising the QA Handbook January 2017, OAQPS, at the request of the monitoring organizations and EPA Regions, provided a comparison of the validation template changes from the 2013 version to the 2017 version (currently posted on AMTIC). During this review, EPA discovered a few revisions that were needed to the 2017 templates in order to make them consistent with revised guidance and regulation. For example, some of the ozone validation criteria referenced 40 CFR Part 50 Appendix P (older interpretation of the standard) instead of the more updated interpretation of the standard which is 40 CFR Part 50 Append U. Also, EPA revised the PM_{2.5} Guidance Document 2.12 in January 2016. Some additional PM parameters reference this 2.12 guidance such and Lo Vol PM₁₀, Lo Vol PM₁₀-Pb, and PM _{10-2.5}, and therefore revision to those templates were needed to ensure consistency with the updated guidance 2.12 guidance. The table below identifies the changes that were made to the validation templates that were posted on AMTIC in January 2017.

Note: changes in the shading (green and blue) are used to denote a different pollutant.

Pollutant	Requirement	From Jan 2017 Template	To Revised Template)	Comment
О3	Standard Reporting Units	Referencing 40 CFR part 50 App P	Referencing 40 CFR part 50 App U	Revision to Reference
О3	Completeness 3-year comparison	Referencing 40 CFR part 50 App P	Referencing 40 CFR part 50 App U	Revision to Reference
03	8- hour average	75% of hourly averages for the 8 hours (6 of 8 hours)	≥ if at least 6 of the hourly concentrations for the 8-hour period are available	Revision to Reference from 40 CFR part 50 App P to 40 CFR part 50 App U
03	Valid Daily Max	75% of the 24, valid 8 hour averages (18 of 24 hour averages).	≥ if valid 8-hour averages are available for at least 13 of the 17 consecutive 8-hour periods starting from 7:00 a.m. to 11:00 p.m	Revision to Reference from 40 CFR part 50 App P to 40 CFR part 50 App U
СО	Zero Air/Zero Air Checks	Two checks with the same acceptance criteria in template	One check: < 0.1 ppm CO	There were two checks in the operational template, removed one
PM2.5 Continuous	Variability in Flow Rate	Not included	CV ≤ 2%	This in 40 CFR Part 50, App L Sec. 7.4.3.2 so it should be in the template
PM2.5 Continuous	Temperature Audit	Every 365 days and 1/ calendar year	every 180 days and at time of flow rate audit	Revised in Method 2.12 so it is now consistent with PM2.5 FRM guidance.
PM2.5 Continuous	Pressure Audit	Every 365 days and 1/ calendar year	every 180 days and at time of flow rate audit	Revised in Method 2.12 so it is now consistent with PM2.5 FRM guidance.

Pollutant	Requirement	From Jan 2017 Template	To Revised Template)	Comment
PM10c	Lab Temp Check	Not in2017 template	Every 90 days < <u>+</u> 2.1°C	Revised in Method 2.12 so it is now consistent with PM2.5 FRM guidance.
PM10c	Lab Humidity Check	Not in2017 template	Every 90 days < <u>+</u> 2.1 [%]	Revised in Method 2.12 so it is now consistent with PM2.5 FRM guidance.
PM10c	Primary Mass. Verification/Calibration Standards	Listed just Primary standards	Listed Primary Mass. Verification/Calibration Standards	Added to be consistent with language in PM2.5 Template
PM10 -Lo Vol	Lab Temp Check	Every 180 days and twice a calendar year	Every 90 days	Revised in Method 2.12 so it is now consistent with PM2.5 FRM guidance.
PM10 -Lo Vol	Lab Humidity Check	Every 180 days and twice a calendar year	Every 90 days	Revised in Method 2.12 so it is now consistent with PM2.5 FRM guidance.
PM10 -Lo Vol	Temperature Audit	Every 365 days and 1/ calendar year	every 180 days and at time of flow rate audit	Revised in Method 2.12 so it is now consistent with PM2.5 FRM guidance.
PM10 -Lo Vol	Pressure Audit	Every 365 days and 1/ calendar year	every 180 days and at time of flow rate audit	Revised in Method 2.12 so it is now consistent with PM2.5 FRM guidance.