

## **Changes to Quality Assurance and Certification Test XML Schema Version 1.0**

The purpose of this document is to list the changes which have been made to the Quality Assurance and Certification Test XML Schema between draft version 6.0 and production version 1.0.

### **Validation Types**

- Removed the enumerated value "ILMML" from AccuracyTestMethodCodeType. This is not a valid value for the AccuracyTestMethodCode in FuelFlowmeterAccuracyData.
- Added the enumerated value "40" to QACertEventCodeType. This code is needed in order to report "Construction of new stack or flue" in QACertEventCode in QACertificationEventData.
- Added the enumerated value "50" to QACertEventCodeType. This code is needed in order to report "Recertification required following Long Term Cold Storage (reusing previously certified systems)" in QACertEventCode in QACertificationEventData.
- Added the enumerated value "51" to QACertEventCodeType. This code is needed in order to report "Recertification required following Long Term Cold Storage (systems modified, or replaced)" in QACertEventCode in QACertificationEventData.
- Added the enumerated value "141" to QACertEventCodeType. This code is needed in order to report "Replacement of primary analyzer after temporary use of a Like-kind Replacement Analyzer" in QACertEventCode in QACertificationEventData.
- Added the enumerated value "151" to QACertEventCodeType. This code is needed in order to report "Replacement of primary analyzer after temporary use of a Regular Non-redundant Backup Monitoring System" in QACertEventCode in QACertificationEventData.
- Added the enumerated value "250" to QACertEventCodeType. This code is needed in order to report "Initial Certification of PEMS" in QACertEventCode in QACertificationEventData.
- Added the enumerated value "251" to QACertEventCodeType. This code is needed in order to report "For PEMS, Modification to the Flue Gas Handling System or Unit Operation that Significantly Changes the Flow or Concentration Profile" in QACertEventCode in QACertificationEventData.
- Added the enumerated value "252" to QACertEventCodeType. This code is needed in order to report "Changes to Instrumentation Used as Input to PEMS" in QACertEventCode in QACertificationEventData.

- Added the enumerated value "253" to QACertEventCodeType. This code is needed in order to report "Minor Change to PEMS Software" in QACertEventCode in QACertificationEventData.
- Added the enumerated value "254" to QACertEventCodeType. This code is needed in order to report "Expansion of PEMS Operating Envelope" in QACertEventCode in QACertificationEventData.
- Added the enumerated value "255" to QACertEventCodeType. This code is needed in order to report "PEMS Replacement" in QACertEventCode in QACertificationEventData.
- Added the enumerated value "800" to QACertEventCodeType. This code is needed in order to report "Conditional Data Validation used when QA test not completed by deadline (Ozone Season Only Reporters)" in QACertEventCode in QACertificationEventData.
- Added the enumerated value "OS" to RATAFrequencyCodeType. This code is needed in order to report "Ozone-season only" in RATAFrequencyCode in RATAData.
- Added the enumerated value "80" to RequiredTestCodeType. This code is needed in order to report "PEMS Sensor Validations, Daily QA/QC, Statistical Tests, RATA (at least 30 test runs at each of 3 loads)" in RequiredTestCode in QACertificationEventData.
- Added the enumerated value "81" to RequiredTestCodeType. This code is needed in order to report "PEMS Daily QA/QC, 3-run Relative Accuracy Audit (RAA) with RM or Portable Analyzer " in RequiredTestCode in QACertificationEventData.
- Added the enumerated value "82" to RequiredTestCodeType. This code is needed in order to report "PEMS Daily QA/QC" in RequiredTestCode in QACertificationEventData.