XML Schema for

AMD9 RATA Summary

Revision History

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author(s)** | **Revision Notes** |
| 0.1 | Oct-14-2018 | Environment and Resources | Initial document |
| 1.0 | Nov-20-2018 | Environment and Resources | Updated schema namespace |
| 1.1 | Nov-28-2018 | Environment and Resources | Updated optional fields |
| 1.2 | Dec-07-2018 | Environment and Resources | Updated and embedded the schema; updated optionality on the data dictionary |
| 1.3 | Dec-18-2018 | Environment and Resources | Updated and embedded the schema |
| 1.4 | Jan-03-2019 | Environment and Resources | Updated and embedded the schema; updated optionality on the data dictionary |
| 1.5 | Jan-08-2019 | Environment and Resources | Added schema version and embedded schema |
| 1.6 | Feb-06-2019 | Air Policy | Added file naming convention to data dictionary |
| 1.7 | Jun-21-2019 | Air Policy | Changed CemsAnalyzerSerialNumber field to required in field description table |
| 1.8 | Jan-28-2020 | Environment and Resources | Updated and embedded schema; updated data dictionary |
| 2.0 | Jun-25-2021 | Environment and Resources | Updated and embedded schema; updated data dictionary |

This document outlines the XML file format that is required for the submission of AMD9 RATA Summary.

Please note that the possible values for some of the [XML](https://www.w3schools.com/xml/default.asp) fields will be communicated later and minor changes to the [XML Schema](https://www.w3schools.com/xml/schema_intro.asp) may be needed in the future.

XML Schema



File Naming Convention

Refer to required file naming conventions on the Air Monitoring Directive website:

[EPEA Approval Industrial Monitoring Documentation Submission Naming Guideline](https://www.alberta.ca/assets/documents/ep-epea-approval-industrial-monitoring-documentation-submission-naming-guideline.pdf)

Field Descriptions

|  |  |  |
| --- | --- | --- |
| **Field** | **Description** | **Required** |
| EpeaApproval | EPEA approval number (8 digits) | Yes |
| CompanyName | Name of the company | Yes |
| FacilityName | Name of the facility | Yes |
| AerId | AER ID | No |
| FacilityContactName | Name of the facility contact | Yes |
| FacilityContactPhone | Phone of the facility contact | Yes |
| FacilityContactEmail | Email of the facility contact in abc@xyz.com format | Yes |
| RATAConductedByCompany | Rata conducted by company  | Yes |
| RATALeadConductor | Name of lead person conducting Rata | Yes |
| ContractorCompany | Name of the contractor company | No |
| ContractorContactName | Contact name of the contractor company | No |
| ContractorContactEmail | Email of the contractor company contact | No |
| Year | Year in YYYY format | Yes |
| Month | Name of the reporting month; e.g., January | Yes |
| Sources | Collection of sources | Yes |
| UniqueSourceIdentifier | Unique source identifier; e.g., Unit 1 | No |
| CemsStationId | CEMS station id; e.g., 77777 | Yes |
| StackDiameter | Stack inside diameter(m); e.g., 2.74 | Yes |
| AuditStartDate | Audit start date and time in format: YYYY-MM-DDThh:mm:ss.ttt | Yes |
| AuditEndDate | Audit end date and time in format: YYYY-MM-DDThh:mm:ss.ttt | Yes |
| NotificationDate | Notification date; e.g., 2017-12-15 | No |
| ProductionRateDuringTest | Production rate during test; e.g., 2025 | Yes |
| AvgProductionRateForPrevious30Days | Average production rate for previous 30 days in number; e.g., 2160 | Yes |
| ProductionRateUnits | Production rate units; e.g., Sm3/day | Yes |
| SourceName | Source name; e.g., Gas Turbine Exhaust Stack | Yes |
| Comments | General comments in text | No |
| Parameters | Collection of parameter data | Yes |
|  Name | Parameter name; e.g., Nitrogen Oxides (NOx, expressed as NO2), Oxygen, Flow, Temperature | Yes |
|  AnalyzerUnits | Analyzer Units\*; e.g., ppm, kg, % dry, m3/s, deg C | Yes |
|  TimeInterval | Time interval; e.g. 1HR | No |
|  CemsAnalyzerSerialNumber | CEMS analyzer serial number; e.g., 2038557 | Yes |
|  CemsAnalyzerMake | CEMS analyzer make; e.g., advance optima | Yes |
|  CemsAnalyzerModel | CEMS analyzer; e.g., A02040 | Yes |
|  AnalyzerLowRange | Analyzer low range; e.g. 0 | Yes |
|  AnalyzerUpperRange | Analyzer upper range; e.g. 100 | Yes |
|  RelativeAccuracyAverageCemsResponse | Relative accuracy average CEMS response; e.g., 300.1 | Yes |
|  RelativeAccuracyAverageReferenceMethodResult | Relative accuracy average reference method result; e.g., 306.0 | Yes |
| RelativeAccuracyFlowReportingUnits | Units\* in which the flow data has been reported; m3/s, m3/s dry; required if parameter is Flow, for all other parameters must be blank | No |
| RelativeAccuracy | Relative accuracy; e.g., 4.1 | No |
|  RelativeAccuracyCemsCodePerformanceSpecification | Relative accuracy CEMS code performance specification; e.g., 10.0. | No |
|  RelativeAccuracyPerformanceSpecificationUnits | Relative accuracy performance specification units; e.g,. %. Note: performance specification and performance specification units combination must be in accordance with the current CEMS code. | No |
| BiasPercent | Bias percent; e.g., 1.07 | No |
| RataAcceptable | Does RATA meet CEMS code? (Yes,No,Incomplete test)Note: If "incomplete test" is submitted, must explain in General Comments field | Yes |
| RataTestResultsComment | Rata test results comments in written text | No |
|  ReferenceTestResultsUsedForApprovalCompliance | Reference test results used for approval compliance? True/False (Yes/No) | Yes |
|  ParameterUnitsForApprovalCompliance | Parameter units for approval compliance; e.g., ppm | No |
|  ApprovalTimeInterval | Approval time interval; e.g. 1HR | No |
|  IdentificationOfRataRunNumbersForTest | Number of rata rfuns for compliance test; e.g., Runs 4-5 for Test/Set #1, Add 2 more DD rows below for: Runs 6-7 for Test/Set #2, Runs 8-9 for Test/Set #3 | No |
|  ComplianceTestRunResultValue | Compliance test #1 run result value; e.g., 0.26, Add 2 more DD rows below for test #2 and #3 respectively for: 0.24 and 0.22 | No |
|  ComplianceTestRunsResultsAverage | Compliance test runs results average; e.g., 0.24 | No |
|  ApprovalLimit  | Approval limit; e.g., 30Note: Must be reported in same units as ParameterUnitsForApprovalCompliance | No |
|  StackSamplingCodeCompliaceMet | Were all Alberta Stack Sampling Code requirements met? True/false (Yes/No) | No |
|  DataComments | Data comments in text | No |

\* As of Jan 1, 2022, for all CEMS data reported, either dry basis or wet basis must be used for reporting gas concentrations and flow as per procedures in the CEMS User Manual.

Reference Links

* [XML Overview](https://www.w3schools.com/xml/default.asp)
* [Schema Overview](https://www.w3schools.com/xml/schema_intro.asp)