XML Schema for

AMD3 CEMS Zero and Span Summary

Revision History

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author(s)** | **Revision Notes** |
| 0.1 | Oct 03-2018 | Environment and Resources | Initial document |
| 1.0 | Nov-20-2018 | Environment and Resources | Updated schema namespace |
| 1.1 | Nov-28-2018 | Environment and Resources | Fixes for optional fields |
| 1.2 | Dec-08-2018 | Environment and Resources | Updated and embedded schema; updated data dictionary |
| 1.3 | Dec-18-2018 | Environment and Resources | Updated and embedded schema; updated data dictionary |
| 1.4 | Jan-08-2019 | Environment and Resources | Added schema version and embedded schema |
| 1.5 | Feb-06-2019 | Air Policy | Added file naming convention to data dictionary |
| 1.6 | Mar-06-2019 | Environment and Resources | AnalyzerFullScale Field update from integer to decimal |
| 1.7 | Jan-28-2020 | Environment and Resources | Updated and embedded schema; updated data dictionary |

This document outlines the XML file format that is required for the submission of AMD3 CEMS Zero and Span Summary.

The relevant AMD Chapter 9 clauses for this form include: RC 5-R, RC 5-S, RC 6-U, RC 6-V.

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 |
| AerId | AER ID | No |
| FacilityName | Name of the facility | Yes |
| FacilityContactName | Name of the facility contact | Yes |
| FacilityContactPhone | Phone of the facility contact; e.g., 555-555-1234 | Yes |
| FacilityContactEmail | Email of the facility contact; e.g., abc@xyz.com | Yes |
| ContractorCompany | Name of the contractor company | No |
| ContractorContactName | Contact name of the contractor company | No |
| ContractorContactEmail | Email of the contract contact; e.g., abc@xyz.com | No |
| Year | Year in YYYY format | Yes |
| Month | Name of the reporting month; e.g., January | No |
| Quarter | Quarter number as Q1, Q2, Q3, Q4 | No |
| Comments | General comments | No |
| Parameters | Collection of each audited parameter | Yes |
|  Name | Parameter name; e.g., NOx | Yes |
|  StartDate | Parameter audit start date and time for parameter | Yes |
| EndDate | Parameter audit end date and time  | Yes |
| UniqueSourceIdentifier | Unique source identifier; e.g., P1 Reformer Stack | Yes |
|  CemsStationId | CEMS station id; e.g., 19040 | Yes |
|  AnalyzerFullScale | Full scale of analyzer; e.g., 100 | Yes |
|  AnalyzerFullScaleUnits | Full scale units of analyzer; e.g., ppm | Yes |
|  ZeroAlbertaCemsCodeCriteria | Criteria based on the Alberta CEMS Code; e.g., ±2% | Yes |
|  ZeroReadingFromAnalyzer | Zero reading from analyzer; e.g., 1.2 | Yes |
|  ZeroReferenceGasConcentration | Zero reference gas concentration; e.g., 0.01 | Yes |
|  ZeroCemsDriftPercent | CEMS zero drift percent; e.g., -1.2 | Yes |
|  SpanAlbertaCemsCodeCriteria | Span criteria based on the Alberta CEMS Code; e.g., ± 2% | Yes |
|  SpanReadingFromAnalyzer | Span reading from analyzer; e.g., 62.5 | Yes |
|  SpanReferenceGasConcentration | Span reference gas concentration; e.g., 85.0 | Yes |
|  SpanCemsDriftPercent | Span CEMS drif percent; e.g., 22.5 | Yes |
|  CauseOfOutOfControlPeriod | Cause of out-of-control period; e.g., incorrect calibration gas | Yes |
|  CorrectiveActions | Summary of corrective actions; e.g., recalibrated | Yes |

Reference Links

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