XML Schema for

AMD6 Flare Stack

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-08-2018 | Environment and Resources | Updated and embedded schema; updated data dictionary |
| 1.3 | Dec-16-2018 | Environment and Resources | Updated schema |
| 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 | Jan-28-2020 | Environment and Resources | Updated and embedded schema; updated data dictionary |
| 1.7 | Apr-22-2022 | Air Policy | Updated embedded .xsd schema. |

This document outlines the XML file format that is required for the submission of AMD6 Flare Stack.

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 |
| FacilityContactEmail | Email of the facility contact in abc@xyz.com format | Yes |
| ContractorCompany | Name of the contractor company | No |
| ContractorContactName | Contact name of the contractor company | No |
| ContractorContactEmail | Email of the contact | No |
| Year | Year in YYYY format | Yes |
| Quarter | Quarter number as Q1, Q2, Q3, Q4 | No |
| Monthly | Monthly data collection: Month1, Month2, Month3 (Quarterly) | No |
|  Month | Name of the reporting month; e.g., January | Yes |
| Sources | Collection of Sources | Yes |
|  Name | Source name; e.g., Boiler stack | Yes |
|  Comments | General comments | No |
|  UniqueSourceIdentifier | Unique source identifier (as identified in EPEA approval if available); e.g., P1 Reformer Stack | No |
|  CemsStationId | CEMS station id; e.g., 77777 | No |
|  SubstanceSpecifications | Substance specifications from 1-4 | Yes |
|  Index | Substance index in number from 1 – 4 | Yes |
|  Name  | Substance name in text | Yes |
|  Units | Units in which the data has been reported; e.g., kg | Yes |
|  DailyReports | Collection of Monthly1, monthly2, monthly(Quarterly) data | Yes |
|  DailyReport | Encapsulates fields for daily reporting | No |
|  Day | Number of days from 1-31 in the month reported for. | Yes |
|  GasAnalysisDates | Collection of gas analysis dates | Yes |
|  GasAnalysisDate | Gas analysis date; e.g., 2017-11-03 | No |
|  ProcessStreamNameSentToFlare | Name of the process stream; e.g., acid gas | No |
|  H2SPercentContainedInFlaredGas  | % of H2S contained in the flared gas; e.g., 40d | No |
|  NetHeatingValueOfFlaredGas | Net heating value of flaredGas (MJ/ m³); e.g., 9 | No |
|  FlaringReason | Reason for flaring; e.g., Process upset | No |
|  NotificationReferenceProvided | Notification reference provided? True/False | No |
|  NetHeatingValueOfFuelGas | Net heating value of fuel gas (MJ/ m³); e.g., 37 | No |
|  ProcessStreamVolumeSentToFlare | Volume of process stream sent to flare (10³ m³); e.g., 5 | No |
|  FuelGasVolumeSentToFlare | Volume of fuel gas sent to flare in number; e.g., 4 | No |
|  ProcessStreamVolumeVented | Volume of process stream vented (10³ m³); e.g., 0 | No |
|  ReleaseQuantificationMethod | Release quantification method; e.g., mass balance | No |
|  EmissionsTotals | Collection of emissions total | Yes |
|  EmissionTotal | Encapsulates the value and its index | Yes |
|  Index | Index in number from 1 – 4. Corresponds to substance specification index number | Yes |
|  Value | Emission value; e.g., 1.2 | Yes |
|  MonthlyTotal | Collection of monthly totals | No |
|  ProcessStreamVolumeSentToFlare  | Monthaly total volume of process stream sent to flare (10³ m³); e.g., 55 | No |
|  FuelGasVolumeSentToFlare | Monthly total of fuel gas volume sent to flare; e.g., 60 | No |
|  ProcessStreamVolumeVented | Monthly total volume of process stream vented; e.g., 0 | No |
|  EmissionsTotals | Collection of emissions total | Yes |
|  EmissionTotal | Encapsulates the value and its index | Yes |
|  Index | Index in number from 1 – 4. Corresponds to substance specification index number | Yes |
|  Value | Emission value; e.g., 1.2 | Yes |

Reference Links

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