

Changes to Emissions XML Schema Version 1.7 for the 2018 Q2 Release

The purpose of this document is to list the changes that have been made to the Emissions XML Schema for the 2018 Q2 release of Version 1.7. The document is organized in the following order:

- Changes to complex elements.
- Changes to validation types listed in alphabetic order.

I. Complex Data Element

The following elements were added:

- Added the element NSPS4TSummaryData as a child of Emissions. This new complex element includes the following elements:

Element	Validation Type
StackPipeID	RequiredStackPipeType
UnitID	RequiredUnitType
CO2EmissionStandardCode	NSPS4TEmissionStandardCodeType
MODUSValue	NSPS4TEmissionRateValueType
MODUSUOMCode	NSPS4TMODUSUOMCodeType
ElectricalLoadCode	NSPS4TElectricalLoadCodeType
NoCompliancePeriodEndedIndicator	IndicatorType
NoCompliancePeriodEndedComment	CommentType

- Added the complex data element NSPS4TCompliancePeriodData as a child of NSPS4TSummaryData. This new complex element includes the following elements:

Element	Validation Type
BeginYear	OptionalReportingYearType
BeginMonth	MonthType
EndYear	OptionalReportingYearType
EndMonth	MonthType
AverageCO2EmissionRate	NSPS4TEmissionRateValueType
CO2EmissionRateUOMCode	NSPS4TCO2EmissionRateUOMCodeType
PercentValidOpHours	StrictPercentType
ViolationOfCO2StandardIndicator	IndicatorType
ViolationOfCO2StandardComment	CommentType

- Added the complex data element NSPS4TFourthQuarterData as a child of NSPS4TSummaryData. This new complex element includes the following elements:

Element	Validation Type
AnnualEnergySold	NSPS4TEnergyValueType
AnnualEnergySoldTypeCode	NSPS4TElectricalLoadCodeType
AnnualPotentialElectricOutput	NSPS4TEnergyValueType

II. Validation Types

The following simple type was added:

- Added simple type `CommentType` which is used to validate `NoCompliancePeriodEndedComment` in `NSPS4TSummaryData`, and `ViolationOfCO2StandardComment` in `NSPS4TCompliancePeriodData`. Validation is a 3500-character string.
- Added simple type `MonthType` which is used to validate `BeginMonth` and `EndMonth` in `NSPS4TCompliancePeriodData`. Enumeration values are 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12.
- Added simple type `NSPS4TCO2EmissionRateUOMCodeType` which is used to validate `CO2EmissionRateUOMCode` in `NSPS4TCompliancePeriodData`. Enumeration values are KGMWH, LBMMBTU, LBMWH.
- Added simple type `NSPS4TElectricalLoadCodeType` which is used to validate `ElectricalLoadCode` in `NSPS4TSummaryData`, and `AnnualEnergySoldTypeCode` in `NSPS4TFourthQuarterData`. Enumeration values are GROSS, NET.
- Added simple type `NSPS4TEmissionRateValueType` which is used to validate `MODUSValue` in `NSPS4TSummaryData`, and `AverageCO2EmissionRate` in `NSPS4TCompliancePeriodData`. Validation is an integer, 0- 99999.
- Added simple type `NSPS4TEmissionStandardCodeType` which is used to validate `CO2EmissionStandardCode` in `NSPS4TSummaryData`. Enumeration values are CTHIMF, CTHING, CTOUT, CTOUTNT, MODUS, NEW640, RCON820, RCON910.
- Added simple type `NSPS4TEnergyValueType` which is used to validate `AnnualEnergySold` and `AnnualPotentialElectricOutput` in `NSPS4TFourthQuarterData`. Validation is an integer, 0- 99999999.
- Added simple type `NSPS4TMODUSUOMCodeType` which is used to validate `MODUSUOMCode` in `NSPS4TSummaryData`. Enumeration values are KGMWH, LBMMBTU, LBMWH.

- Added simple type `OptionalReportingYearType` which is used to validate `BeginYear` and `EndYear` in `NSPS4TCompliancePeriodData`. Validation is a year (20)\d\d.
- Added simple type `StrictPercentType` which is used to validate `PercentValidOpHours` in `NSPS4TCompliancePeriodData`. Validation is a decimal (4, 1).