

Changes to Emissions XML Schema Version 1.7 for the 2018 Q4² Release

The purpose of this document is to list the changes that have been made to the Emissions XML Schema for the 2018 Q4² 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 enumeration values of “43” and “44” to MODCCodeType which is used to validate MODCCode in SorbentTrapData.](#)
- 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).