

## Changes to Monitoring Plan XML Schema Version 1.2

The purpose of this document is to list the changes that have been made to the Monitoring Plan XML Schema for Version 1.2. The document is organized in the following order:

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

### I. Complex Data Elements

The following elements were added in support of reporting for the MATS Rule:

- Added the element HgConverterIndicator as a child of ComponentData. Validation type is "IndicatorType"
- Added the complex data element MonitoringQualLEEDData as a child of MonitoringQualificationData. This new complex element includes the following elements:

Element	Validation Type
QualificationTestDate	RequiredDateType
ParameterCode	MATSLEEPParameterCodeType
QualificationTestType	QualTestCodeType
PotentialAnnualMassEmissions	HgLbsType
ApplicableEmissionsStandard	QualLEEApplicableEmissionsType
UnitsofStandard	QualLEEUnitsOfMeasureCodeType
PercentageOfEmissionStandard	PercentageValueType

- Added the complex data element SupplementalMATSMonitoringMethod as a child of StackPipeData and UnitData. This new complex element includes the following elements:

Element	Validation Type
SupplementalMATSPParameterCode	SupplementalMATSPParameterCodeType
SupplementalMATSMonitoringMethodCode	SupplementalMATSMMethodCodeType
BeginDate	RequiredDateType
BeginHour	RequiredHourType
EndDate	OptionalDateType
EndHour	OptionalHourType

## II. Validation Types

The following simple types were added in support of reporting for the MATS Rule:

- Added HgLbsType as a simple type used by MonitoringQualLEEData/ PotentialAnnualMassEmissions. Validation is a decimal (5, 1).
- Added MATSLEEPParameterCodeType as a simple type used by MonitoringQualLEEData/ ParameterCode.
  - Enumeration values are HCL, HF, and HG.
- Added QualLEEApplicableEmissionsType as a simple type used by MonitoringQualLEEData/ ApplicableEmissionStandard. Validation is a decimal (9, 4).
- Added QualLEEUnitsOfMeasureCodeType as a simple type used by MonitoringQualLEEData/ UnitsofStandard.
  - Enumeration values are LBGWH, LBMMBTU, LBMWH, and LBTBTU.
- Added QualTestCodeType as a simple type used by MonitoringQualLEEData/ QualificationTestType.
  - Enumeration values are INITIAL and RETEST.
- Added SupplementalMATSMethodCodeType as a simple type used by SupplementalMATSMonitoringMethodData/ SupplementalMATSMonitoringMethodCode.
  - Enumeration values are CEMS, LEE, LEST, NA, PMCEMS, PMCPMS, PMO, PMQST, and QST.
- Added SupplementalMATSPParameterCodeType as a simple type used by SupplementalMATSMonitoringMethodData/ SupplementalMATSPParameterCode.
  - Enumeration values are HG, HF, HCL, TM, TNHGM, IM, INHGM, and LU.

The following enumeration values were updated in support of reporting for the MATS Rule:

- Added enumeration value ADSP to validate AcquisitionMethodCodeType in ComponentData/ SampleAcquisitionMethodCode. Removed enumeration value TRAP.
- Added enumeration values HCL, HF, and STRAIN to validate ComponentTypeCodeType in ComponentData/ ComponentTypeCode. Removed enumeration values GFM and TRAP.
- Added enumeration values APAC, CAT, HPAC, SORB, REAC, and UPAC to validate ControlCodeType in UnitControlData/ ControlCode.
- Removed enumeration value of AK from DefaultPurposeCodeType.
- Removed enumeration value of OZ, UG, and UGSCM from DefaultUnitsOfMeasureCodeType.
- Added the following enumeration values to validate EquationCodeType in MonitoringFormulaData/ FormulaCode:
  - A-2
  - A-3

- A-4
  - HC-2
  - HC-3
  - HC-4
  - HF-2
  - HF-3
  - HF-4
  - MS-1
  - S-2
  - S-3
  - S-4
- Added enumeration values HCLRE, HCLRH, HFRE, HFRH, HGRE, HGRH, SO2RE, and SO2RH to validate FormulaParameterCodeType in MonitoringFormulaData/ ParameterCode.
  - Added enumeration values CEMST and ST to validate MethodCodeType in MonitoringMethodData/ MonitoringMethodCode. Removed enumeration values of AK and CEMAK.
  - Added enumeration values HCLRE, HCLRH, HFRE, HFRH, HGRE, HGRH, SO2RE, and SO2RH to validate MethodParameterCodeType in MonitoringMethodData/ ParameterCode. Removed enumeration values of AKSF, HCLC, HGC, HGM, HGX, and PM.
  - Added enumeration values HGAVG and LEE to validate QualTypeCodeType in MonitoringQualificationData/ QualificationTypeCode.
  - Added enumeration values HCL, HF, and HG to validate SpanComponentTypeCodeType in MonitoringSpanData/ ComponentTypeCode.
  - Added enumeration value FS to validate SpanMethodCodeType in MonitoringSpanData/ SpanMethodCode.
  - Added enumeration value UGSCM to validate SpanUnitsOfMeasureCodeType in MonitoringSpanData/ SpanUnitsofMeasureCode.
  - Added enumeration values HCL, HF, and ST to validate SystemTypeCodeType in MonitoringSystemData/ SystemTypeCode. Removed enumeration value HGK.
  - Added enumeration values HCL, HF, and HG to validate UnitControlParameterCodeType in UnitControlData/ ParameterCode.