

# 2008 National Emissions Inventory

## Emissions Inventory System Implementation Plan

### Appendix 3 NIF 3.0 Conversion Mapping

**Final**

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## Appendix 3

### NIF Conversion Mapping

#### 3.1 Overview

The NEI Input Format (NIF) supported the transfer of both CAP and HAP emissions data to the EPA's National Emissions Inventory (NEI) for the 1996 through 2005 inventory cycles. For 2008 data submissions, the EIS will no longer accept the NIF 3.0 format, and requires that all data be submitted in the new Consolidated Emissions Reporting Schema (CERS) XML reporting format. This section provides guidance on the mapping of NIF 3.0 data elements to the EIS CERS XML data elements.

Section 3.2 provides a mapping of NIF 3.0 data element to the corresponding EIS CERS data elements, organized by the NIF 3.0 record types.

Section 3.3 provides a mapping of the EIS CERS data elements to the corresponding NIF 3.0 data elements, organized by the EIS CERS components.

#### 3.2 NIF 3.0 Data Element Mapping to EIS CERS XML Data Elements

The following figures show the NIF 3.0 record types and data elements that map to the corresponding EIS CERS XML data elements in the EIS CERS. The EIS CERS XML element name and the corresponding EIS CERS components are included if there is a direct mapping for the NIF 3.0 data element.

The figures include the following information:

- **NIF 3.0 Data Element** - Name of the data element as it appears in the NIF 3.0 November 2003 update.
- **NIF 3.0 Data Type** - Data format defined in NIF 3.0 for a given data element.
- **Required in NIF 3.0** - Indicates the primary key fields that were required in NIF 3.0. Note that this is a subset of the fields labeled as "Mandatory" in the NIF 3.0 specifications.
- **EIS CERS component** - Name of the component that contains the grouping of related XML elements. See section 5.3.3 "CERS Complex Types" for more explanation on shared components and name inheritance.
- **EIS CERS XML Element** - Name of the element or attribute in the EIS CERS XML schema that the NIF 3.0 data element directly maps to.
- **Notes** - Information on how the data are processed or transformed when mapped from the NIF 3.0 to the EIS CERS XML data elements.

In NIF 3.0, the required identifying data elements (facility site identifier, State, County, or Tribal codes, etc.) were repeated across related record types in order to associate emissions units, release points, and emission processes to the appropriate NIF 3.0 parent record type. The EIS CERS XML schema does not use these repetitive identifiers because it relies on the nested structure that allows for the inheritance of these identifiers through the hierarchical aspects of the schema structure. Therefore, these data elements are noted as "no longer needed" throughout these figures after the first occurrence of the mapping at the highest record type level.

### 3.2.1 NIF: Transmittal (TR) Record - Point Source

The Transmittal (TR) record type in NIF 3.0 contained a single record for each county or tribe. It identified the State, County, or Tribe of the reporting Agency. This information is now identified by the single XML element UserIdentifier. The Transmittal Record also indicated the source type (e.g., point). The EIS CERS XML schema does not require the separate designation of data categories in the submission. EIS will derive the data category from data within the file.

The use of NIF 3.0 data element TRANSACTION COMMENT, which allowed the data preparer to provide any overall information regarding the data submission, is mapped to the new EIS CERS XML data element SubmittalComment. These comments are recorded in the EIS data store. Comments regarding the transmission of the XML document through CDX to the EIS are reported in the Exchange Header Comment data element. This comment is not recorded in the EIS as part of the submission file, but is archived as part of the XML document.

The NIF 3.0 data element TRANSACTION CREATION DATE is mapped to Creation Time in the EIS CERS XML Exchange Header and reflects the date and time in which the EIS CERS XML document was submitted. The EIS CERS XML Root element - EmissionsCreationDate is used to reference the date in which a model was run to generate the submitted emissions data. These two dates may vary in time.

**Figure A3-1**  
**NIF: Transmittal Record - Point Source**

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y		No longer used	
ORGANIZATION NAME	CHARACTER	Y	Exchange Header	Organization	
TRANSACTION TYPE	CHARACTER	Y		No longer used	There is no longer a distinction between an original and a replacement submission.

(cont.)



<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
INVENTORY YEAR	NUMBER	Y	EIS CERS XML Root	EmissionsYear	
INVENTORY TYPE CODE	CHARACTER	Y		No longer used	CAPs and HAPs are expected to be submitted together in the same file submission.
TRANSACTION CREATION DATE	NUMBER	Y	Exchange Header	Creation Time	This datum is created by the tool that submits the XML file, and identifies the date and time the XML document was sent.
INCREMENTAL SUBMISSION NUMBER	NUMBER	Y		No longer used	
RELIABILITY INDICATOR	DECIMAL	Y		No longer used	
TRANSACTION COMMENTS	CHARACTER	Y	EIS CERS XML Root	Submittal Comment	
CONTACT PERSON NAME	CHARACTER	Y	Exchange Header	ContactInfo	
CONTACT PHONE NUMBER	CHARACTER	Y	Exchange Header	ContactInfo	
TELEPHONE NUMBER TYPE NAME	CHARACTER	Y	Exchange Header	ContactInfo	
ELECTRONIC ADDRESS TEXT	CHARACTER	Y		No longer used	
ELECTRONIC ADDRESS TYPE NAME	CHARACTER	Y		No longer used	
SOURCE TYPE	CHARACTER	Y		No longer used	The source type is derived from the data reported in the file.
AFFILIATION TYPE	CHARACTER	Y		No longer used	
FORMAT VERSION	DECIMAL	Y		No longer used	Only EIS CERS XML documents are accepted.
TRIBAL CODE	CHARACTER	Y		No longer used	

### 3.2.2 NIF: Site (SI) Record Type - Point Source

The Site (SI) record type in NIF 3.0 contained information that described a facility site. It identified the State and County or Tribe of the reporting Agency.

The NIF 3.0 provided a single data element, FACILITY NAME, in which to report the name of the site, which some Agencies used to report both a company name (e.g. Exxon) as well as a facility name (e.g. Baytown Refinery).. The EIS CERS components retain a facility site name data element and add Affiliation and Organization which can be used to report the company separately from the name of the site.

**Figure A3-2**  
**NIF: Site - Point Source**

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y	Facility Identification	StateAndCounty FIPSCode	
STATE FACILITY IDENTIFIER	CHARACTER	Y	Facility Identification	FacilitySite Identifier	
FACILITY REGISTRY IDENTIFIER	CHARACTER			No longer used	Facility Registry Identifier is stored in EIS as an alternative identifier but is no longer reported.
FACILITY CATEGORY	CHARACTER	Y (HAPs)	FacilitySite	FacilityCategory Code	
ORIS FACILITY CODE	CHARACTER			No longer used	ORIS Facility Code Identifier is stored in EIS as an alternative identifier but is no longer reported.
SIC PRIMARY	CHARACTER			No longer used	
NAICS PRIMARY	CHARACTER	Y	Facility NAICS	NAICSCode	
FACILITY NAME	CHARACTER	Y	FacilitySite	FacilitySite Name	The EIS CERS components Organization and Affiliation can store the company name which was not included in the NIF 3.0.

(cont.)

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
SITE DESCRIPTION	CHARACTER		FacilitySite	Facility SiteDescription	
LOCATION ADDRESS	CHARACTER	Y	FacilitySite Address	LocationAddress Text	
CITY	CHARACTER	Y	FacilitySite Address	LocalityName	
STATE	CHARACTER	Y	FacilitySite Address	LocationAddress StateCode	
ZIPCODE	CHARACTER	Y	FacilitySite Address	LocationAddress PostalCode	
COUNTRY	CHARACTER			StateandCountryF IPS	Only used if reporting inventories for outside the U.S.
NTI SITE ID	CHARACTER			No longer used	NTI Site ID is stored in EIS as an alternative identifier but is no longer reported.
DUN & BRADSTREET NUMBER	CHARACTER			No longer used	Dun & Bradstreet Number is stored in EIS as an alternative identifier but is no longer reported.
TRI ID	CHARACTER			No longer used	TRI ID is stored in EIS as an alternative identifier but is no longer reported.
SUBMITTAL FLAG	CHARACTER			No longer used	
TRIBAL CODE	CHARACTER	Y	Facility Identification	TribalCode	

### 3.2.3 NIF: Emissions Unit (EU) Record Type - Point Source

The Emissions Unit (EU) record type in NIF 3.0 contained information used to describe the emissions unit.

**Figure A3-3**  
**NIF: Emissions Unit - Point Source**

<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y		No longer used	
STATE FACILITY IDENTIFIER	CHARACTER	Y		No longer used	
EMISSION UNIT ID	CHARACTER	Y	Identification	UnitIdentifier	
ORIS BOILER ID	CHARACTER			No longer used	ORIS Boiler Identifier is stored in EIS as an alternative identifier but is no longer reported.
SIC UNIT LEVEL	CHARACTER			No longer used	
NAICS UNIT LEVEL	CHARACTER			No longer used	
DESIGN CAPACITY	DECIMAL		Emissions Unit	UnitDesign Capacity	
DESIGN CAPACITY UNIT NUMERATOR	CHARACTER		Emissions Unit	UnitDesign CapacityUnitof MeasureCode	The Design Capacity Unit Numerator and Denominator have been combined into one data element, the Design Capacity Unit of Measure. See the Unit of Measure Code table for a list of code values.
DESIGN CAPACITY UNIT DENOMINATOR	CHARACTER		Emissions Unit	UnitDesign CapacityUnitof MeasureCode	See note above.
MAX NAMEPLATE CAPACITY	DECIMAL			No longer used	
EMISSION UNIT DESCRIPTION	CHARACTER		Emissions Unit	UnitDescription	
SUBMITTAL FLAG	CHARACTER			No longer used	
TRIBAL CODE	CHARACTER	Y		No longer used	

### 3.2.4 NIF: Emissions Release Point (ER) Record Type - Point Source

The Emission Release Point (ER) record type in NIF 3.0 was used to report the geographic location and physical characteristics of the emission release point.

**Figure A3-4**  
**NIF: Emissions Release Point - Point Source**

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y		No longer used	
STATE FACILITY IDENTIFIER	CHARACTER	Y		No longer used	
EMISSION RELEASE POINT ID	CHARACTER	Y	Release Point Identification	Identifier	ProgramSystem Code is required to be reported along with this identifier.
EMISSION RELEASE POINT TYPE	CHARACTER	Y	Release Point	ReleasePointType Code	
STACK HEIGHT	DECIMAL		Release Point	ReleasePoint Stack HeightMeasure	The unit of measure is now also reported in the Unit of Measure field. Always in Feet
STACK DIAMETER	DECIMAL		Release Point	ReleasePoint StackDiameter Measure	The unit of measure is now also reported in the Unit of Measure field. Always in Feet
STACK FENCELINE DISTANCE	DECIMAL		Release Point	ReleasePoint FenceLine DistanceMeasure	The unit of measure is now also reported in the Unit of Measure field. Always in Feet.
EXIT GAS TEMPERATURE	DECIMAL		Release Point	ReleasePointExit GasTemperature Measure	

(cont.)

<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
EXIT GAS VELOCITY	DECIMAL		Release Point	ReleasePointExitGasVelocityMeasure	The unit of measure is now also reported in the Unit of Measure field.
EXIT GAS FLOW RATE	DECIMAL		Release Point	ReleasePointExitGasFlowRateMeasure	The unit of measure is now also reported in the Unit of Measure field.
X COORDINATE	DECIMAL	Y	ReleasePointGeographicCoordinates	LongitudeMeasure	
Y COORDINATE	DECIMAL	Y	ReleasePointGeographicCoordinates	LatitudeMeasure	
UTM ZONE	NUMBER	Y		No longer used	Only Latitude and Longitude measures in decimal degrees can be reported. UTM values should be converted to Latitude and Longitude prior to submission if Agency systems still use this coordinate methodology.
XY COORDINATE TYPE	CHARACTER	Y		No longer used	
HORIZONTAL AREA FUGITIVE	NUMBER			No longer used	Fugitive area has been replaced with the following elements: - ReleasePointFugitiveWidthMeasure and Unit of Measure; - ReleasePointFugitiveLengthMeasure and Unit of Measure; and - ReleasePointFugitiveAngleMeasure.

(cont.)

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
RELEASE HEIGHT FUGITIVE	NUMBER		Release Point	ReleasePoint FugitiveHeight Measure	The Unit of Measure is now also reported in the Unit of Measure field (Feet).
FUGITIVE DIMENSIONS UNIT	CHARACTER			No longer used	
EMISSION RELEASE PT DESCRIPTION	CHARACTER		Release Point	ReleasePoint Description	
SUBMITTAL FLAG	CHARACTER			No longer used	
HORIZONTAL COLLECTION METHOD CODE	CHARACTER	Y	ReleasePoint Geographic Coordinates	Horizontal CollectionMethod Code	
HORIZONTAL ACCURACY MEASURE	CHARACTER	Y	ReleasePoint Geographic Coordinates	Horizontal AccuracyMeasure	
HORIZONTAL REFERENCE DATUM CODE	CHARACTER	Y	ReleasePoint Geographic Coordinates	Horizontal ReferenceDatum Code	
REFERENCE POINT CODE	CHARACTER	Y	ReleasePoint Geographic Coordinates	Geographic ReferencePoint Code	
SOURCE MAP SCALE NUMBER	CHARACTER		ReleasePoint Geographic Coordinates	SourceMapScale Number	
COORDINATE DATA SOURCE CODE	CHARACTER		ReleasePoint Geographic Coordinates	CoordinateData Source Code	
TRIBAL CODE	CHARACTER	Y		No longer used	

### 3.2.5 NIF: Emissions Process (EP) Record Type - Point Source

The Emissions Process (EP) record type in the NIF 3.0 provided the process identifier and indicated the release point to which the process emissions were directed. It also characterized the emissions process via the SCC, and provided the typical operating schedule for the process across the entire reporting year. (Note that the typical operating schedule for a process period of less than the full reporting year was provided via the PE table in the NIF 3.0.)

**Figure A3-5**  
**NIF: Emissions Process - Point Source**

<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y		No longer used	
STATE FACILITY IDENTIFIER	CHARACTER	Y		No longer used	
EMISSION UNIT ID	CHARACTER	Y		No longer used	
EMISSION RELEASE POINT ID	CHARACTER	Y		No longer used	
PROCESS ID	CHARACTER	Y	Process Identification	Identifier	
SCC	CHARACTER	Y	Unit Emissions Process	Source Classification Code	
PROCESS MACT CODE	CHARACTER		Process Regulation	RegulatoryCode	EIS CERS Regulatory Code data element now allows the reporting of additional regulations, both Federal and State.
EMISSION PROCESS DESCRIPTION	CHARACTER		Unit Emissions Process	Process Description	
WINTER THROUGHPUT PCT	NUMBER		Operating Details	PercentWinter Activity	
SPRING THROUGHPUT PCT	NUMBER		Operating Details	PercentSpring Activity	
SUMMER THROUGHPUT PCT	NUMBER		Operating Details	PercentSummer Activity	
FALL THROUGHPUT PCT	NUMBER		Operating Details	PercentFall Activity	

(cont.)



NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
ANNUAL AVG DAYS PER WEEK	NUMBER		Operating Details	AverageDaysPer Week	These NIF 3.0 data elements map to data elements in the EIS CERS OperatingDetails Component.
ANNUAL AVG WEEKS PER YEAR	NUMBER		Operating Details	AverageWeeks PerPeriod	
ANNUAL AVG HOURS PER DAY	NUMBER		Operating Details	AverageHoursPer Day	
ANNUAL AVG HOURS PER YEAR	NUMBER		Operating Details	ActualHoursPer Period	
HEAT CONTENT	DECIMAL		Supplemental Calculation Parameter	Supplemental Calculation ParameterType	Report type as "Heat Content".
SULFUR CONTENT	DECIMAL		Supplemental Calculation Parameter	Supplemental Calculation ParameterType	Report type as "Percent Sulfur Content".
ASH CONTENT	DECIMAL		Supplemental Calculation Parameter	Supplemental Calculation ParameterType	Report type as "Percent Ash Content".
PROCESS MACT COMPLIANCE STATUS	CHARACTER			No longer used	
SUBMITTAL FLAG	CHARACTER			No longer used	
TRIBAL CODE	CHARACTER	Y		No longer used	

### 3.2.6 NIF: Emissions Period (PE) Record Type - Point Source

The Emissions Period (PE) record type in NIF 3.0 identified the reporting period for the emissions submission. This record type also provided the throughput value for the process for the indicated period. In addition, the typical operating schedule for any less-than-annual periods could be reported.

**Figure A3-6**  
**NIF: Emissions Period - Point Source**

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y		No longer used	

(cont.)

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
STATE FACILITY IDENTIFIER	CHARACTER	Y		No longer used	
EMISSION UNIT ID	CHARACTER	Y		No longer used	
PROCESS ID	CHARACTER	Y		No longer used	
START DATE	NUMBER	Y	Reporting Period	StartDate	Start and End dates are used for reporting episodic or events only.
END DATE	NUMBER	Y	Reporting Period	EndDate	
START TIME	NUMBER			No longer used	
END TIME	NUMBER			No longer used	
ACTUAL THROUGHPUT	DECIMAL		Reporting Period	Calculation ParameterValue	
THROUGHPUT UNIT NUMERATOR	CHARACTER		Reporting Period	Calculation ParameterUnitof Measure	
MATERIAL	NUMBER		Reporting Period	Calculation MaterialCode	
MATERIAL I/O	CHARACTER		Reporting Period	Calculation ParameterType Code	
PERIOD DAYS PER WEEK	NUMBER		Operating Details	AverageDays PerWeek	
PERIOD WEEKS PER PERIOD	NUMBER		Operating Details	Average WeeksPer Period	
PERIOD HOURS PER DAY	NUMBER		Operating Details	Average HoursPerDay	
PERIOD HOURS PER PERIOD	NUMBER		Operating Details	ActualHoursPer Period	
SUBMITTAL FLAG	CHARACTER			No longer used	
TRIBAL CODE	CHARACTER	Y		No longer used	

### 3.2.7 NIF: Control Equipment (CE) Record Type - Point Source

The Control Equipment (CE) record type in NIF 3.0 identified the devices that were used to reduce emissions for an emissions process and pollutant. The EIS CERS XML schema allows both control measures and the pollutants being controlled to be reported in three complex types. Report the overall control approach once for an emissions unit or an emissions process, and then

one or more control measures (or devices) independent of one or more pollutants being controlled by the overall control approach. The overall control approach in CERS is used to report elements that are not specific to a single device or pollutant, such as any capture efficiency or rule effectiveness values.

**Figure A3-7**  
**NIF: Control Equipment - Point Source**

<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y		No longer used	
STATE FACILITY IDENTIFIER	CHARACTER	Y		No longer used	
EMISSION UNIT ID	CHARACTER	Y		No longer used	
PROCESS ID	CHARACTER	Y		No longer used	
POLLUTANT CODE	CHARACTER	Y	Control Pollutant	PollutantCode	
PRIMARY PCT CONTROL EFFICIENCY	DECIMAL			No longer used	
PCT CAPTURE EFFICIENCY	DECIMAL		Process Control Approach	PercentControl ApproachCapture Efficiency	The PCT CAPTURE EFFICIENCY value reported for each pollutant must be the same for each pollutant reported for the control.

(cont.)

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
TOTAL CAPTURE CONTROL EFFICIENCY	DECIMAL		Control Pollutant	Percent Control Measures Reduction Efficiency	The TOTAL CAPTURE CONTROL EFFICIENCY is used to calculate individual pollutants. The PercentControl MeasureReduction Efficiencies in the EIS, using the formula $([TOTAL CAPTURE CONTROL EFFICIENCY]/[PCT CAPTURE EFFICIENCY] * 100)$ .
PRIMARY DEVICE TYPE CODE	CHARACTER	Y	Control Measure	ControlMeasure Code	
SECONDARY DEVICE TYPE CODE	CHARACTER		Control Measure	ControlMeasure Code	
CONTROL SYSTEM DESCRIPTION	CHARACTER		Process Control Approach	ControlApproach Description	
THIRD CONTROL DEVICE TYPE CODE	CHARACTER		Control Measure	ControlMeasure Code	
FOURTH CONTROL DEVICE TYPE CODE	CHARACTER		Control Measure	ControlMeasure Code	
SUBMITTAL FLAG	CHARACTER			No longer used	
TRIBAL CODE	CHARACTER	Y		No longer used	

### 3.2.8 NIF: Emissions (EM) Record Type - Point Source

The Emissions (EM) record type in NIF 3.0 provided the emissions values and the calculation methods used for each process and pollutant. The emissions could be provided for any time period (including full reporting year, seasonal, monthly, single days, or any date range) via the Start and End Dates. Determining whether the reported emissions were an annual total value, a seasonal total value, or an average daily rate for the year, season, or any date range requires the combination of the reported Emissions Type and the Start and End Dates. An annual emission was best indicated by an Emission Type = 30 (emissions are total for full date range and a date range of January 1 to December 31).

**Figure A3-8**  
**NIF: Emissions - Point Source**

<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y		No longer used	
STATE FACILITY IDENTIFIER	CHARACTER	Y		No longer used	
EMISSION UNIT ID	CHARACTER	Y		No longer used	
PROCESS ID	CHARACTER	Y		No longer used	
POLLUTANT CODE	CHARACTER	Y	Reporting Period Emissions	PollutantCode	
EMISSION RELEASE POINT ID	CHARACTER	Y		No longer used	
START DATE	NUMBER	Y		No longer used	
END DATE	NUMBER	Y		No longer used	
START TIME	NUMBER			No longer used	
END TIME	NUMBER			No longer used	
EMISSION NUMERIC VALUE	DECIMAL	Y	Reporting Period Emissions	TotalEmissions	
EMISSION UNIT NUMERATOR	CHARACTER	Y	Reporting Period Emissions	EmissionsUnitof MeasureCode	
EMISSION TYPE	CHARACTER	Y		No longer used	
EM RELIABILITY INDICATOR	DECIMAL			No longer used	
FACTOR NUMERIC VALUE	DECIMAL		Reporting Period Emissions	EmissionFactor	
FACTOR UNIT NUMERATOR	CHARACTER		Reporting Period Emissions	EmissionFactor Numerator Unitof MeasureCode	
FACTOR UNIT DENOMINATOR	CHARACTER		Reporting Period Emissions	EmissionFactor Denominator Unitof MeasureCode	

(cont.)

<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
MATERIAL	NUMBER			No longer used	Material is no longer reported at the Emissions level. It is reported as the calculation parameters data (activity data) in Reporting Period component.
MATERIAL I/O	CHARACTER			No longer used	Material I/O is no longer reported at the Emissions level. It is reported as the calculation parameters data (activity data) in the Reporting Period component.
EMISSION CALCULATION METHOD CODE	CHARACTER		Reporting Period Emissions	Emission Calculation MethodCode	
EF RELIABILITY INDICATOR	CHARACTER			No longer used	
RULE EFFECTIVENESS	DECIMAL		Process Control Approach	Percent Control Approach Effectiveness	The TOTAL CAPTURE CONTROL EFFICIENCY is used to calculate individual pollutants. The PercentControl MeasureReduction Efficiencies in the EIS, using the formula $([TOTAL CAPTURE CONTROL EFFICIENCY]/[PCT CAPTURE EFFICIENCY] * 100)$ .
RULE EFFECTIVENESS METHOD	CHARACTER			No longer used	
HAP EMISSIONS PERFORMANCE LEVEL	CHARACTER			No longer used	Only report actual emissions.

(cont.)

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
CONTROL STATUS	CHARACTER			No longer used	Report which pollutants are controlled with the Control Approach complex type.
EMISSION DATA LEVEL	CHARACTER			No longer used	Only process-level emissions are reported to the EIS.
SUBMITTAL FLAG	CHARACTER			No longer used	
TRIBAL CODE	CHARACTER	Y		No longer used	

### 3.2.9 NIF: Transmittal (TR) Record Type - Area and Nonroad Sources

The Transmittal (TR) record type in NIF 3.0 contained a single record for an entire submission. It identified the State, County, or Tribal code of the reporting Agency. This information is now identified by the single XML element UserIdentifier. The transmittal record also indicated the source type (e.g., nonpoint, nonroad). The CERS XML schema does not require the separate designation of data categories in the submission, but will derive this from the reported SCCs.

**Figure A3-9**  
**NIF: Transmittal - Area and Nonroad Sources**

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y		No longer used	
ORGANIZATION NAME	CHARACTER	Y	Exchange Header	Organization	
TRANSACTION TYPE	CHARACTER	Y		No longer used	There is no longer a distinction between an original and a replacement submission.
INVENTORY YEAR	NUMBER	Y	EIS CERS XML Root	EmissionsYear	

(cont.)

<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
INVENTORY TYPE CODE	CHARACTER	Y		No longer used	CAPs and HAPs are expected to be submitted together in the same file submission.
TRANSACTION CREATION DATE	NUMBER	Y	Exchange Header	Creation Time	These data are created by the tool that submits the XML file, and identifies the date and time the XML document was sent.
INCREMENTAL SUBMISSION NUMBER	NUMBER	Y		No longer used	
RELIABILITY INDICATOR	DECIMAL	Y		No longer used	
TRANSACTION COMMENTS	CHARACTER	Y	EIS CERS XML Root	Submittal Comment	
CONTACT PERSON NAME	CHARACTER	Y	Exchange Header	ContactInfo	
CONTACT PHONE NUMBER	CHARACTER	Y	Exchange Header	ContactInfo	
TELEPHONE NUMBER TYPE NAME	CHARACTER	Y	Exchange Header	ContactInfo	
ELECTRONIC ADDRESS TEXT	CHARACTER	Y		No longer used	This information is taken from the UserIdentifier.
ELECTRONIC ADDRESS TYPE NAME	CHARACTER	Y		No longer used	This information is taken from the UserIdentifier.
SOURCE TYPE	CHARACTER	Y		No longer used	The source type is derived from the data reported in the file.
AFFILIATION TYPE	CHARACTER	Y		No longer used	
FORMAT VERSION	DECIMAL	Y		No longer used	Only EIS CERS XML documents are accepted.
TRIBAL CODE	CHARACTER	Y		No longer used	



### 3.2.10 NIF: Emissions Process (EP) Record Type - Area and Nonroad Sources

The Emissions Process (EP) record type in NIF 3.0 identified the emissions process, annual operational processes, and supplemental parameter data.

**Figure A3-10**  
**NIF: Emissions Process - Area and Nonroad Sources**

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y	Location	StateAndCounty FIPSCode	
SCC	CHARACTER	Y	Location Emissions Process	Source Classification Code	
PROCESS MACT CODE	CHARACTER		Process Regulation	RegulatoryCode	
EMISSION PROCESS DESCRIPTION	CHARACTER		Location Emissions Process	Process Description	
SIC	CHARACTER			No longer used	
NAICS	CHARACTER			No longer used	
WINTER THROUGHPUT PCT	NUMBER		Operating Details	PercentWinter Activity	Not reported for Nonroad.
SPRING THROUGHPUT PCT	NUMBER		Operating Details	PercentSpring Activity	Not reported for Nonroad.
SUMMER THROUGHPUT PCT	NUMBER		Operating Details	PercentSummer Activity	Not reported for Nonroad.
FALL THROUGHPUT PCT	NUMBER		Operating Details	PercentFall Activity	Not reported for Nonroad.
ANNUAL AVG DAYS PER WEEK	NUMBER			No longer used	
ANNUAL AVG WEEKS PER YEAR	NUMBER			No longer used	
ANNUAL AVG HOURS PER DAY	NUMBER			No longer used	
ANNUAL AVG HOURS PER YEAR	NUMBER			No longer used	

(cont.)

<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
HEAT CONTENT	DECIMAL		Supplemental Calculation Parameter	Supplemental Calculation ParameterType	Not reported for Nonroad. Report type as "Heat Content".
SULFUR CONTENT	DECIMAL		Supplemental Calculation Parameter	Supplemental Calculation ParameterType	Not reported for Nonroad. Report type as "Percent Sulfur Content".
ASH CONTENT	DECIMAL		Supplemental Calculation Parameter	Supplemental Calculation ParameterType	Not reported for Nonroad. Report type as "Percent Ash Content".
PROCESS MACT COMPLIANCE STATUS	CHARACTER			No longer used	
SUBMITTAL FLAG	CHARACTER			No longer used	
TRIBAL CODE	CHARACTER	Y		No longer used	

### **3.2.11 NIF: Emissions Period (PE) Record Type - Area and Nonroad Sources**

The Emissions Period (PE) record type in NIF 3.0 identified the reporting period for the emissions submission. The record type contained data that specified the start and end date for the reported period, and indicated the activity and seasonal operational data (no longer reported for nonroad sources) that occurred during that timeframe.

**Figure A3-11**  
**NIF: Emissions Period - Area and Nonroad Sources**

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y		No longer used	
SCC	CHARACTER	Y		No longer used	
START DATE	NUMBER	Y	Reporting Period	StartDate	Only used for episodic or event reporting.
END DATE	NUMBER	Y	Reporting Period	EndDate	
START TIME	NUMBER			No longer used	
END TIME	NUMBER			No longer used	
ACTUAL THROUGHPUT	DECIMAL		Reporting Period	Calculation ParameterValue	Not reported for Nonroad.
THROUGHPUT UNIT NUMERATOR	CHARACTER		Reporting Period	Calculation ParameterUnitof Measure	Not reported for Nonroad.
MATERIAL	NUMBER		Reporting Period	Calculation MaterialCode	Not reported for Nonroad.
MATERIAL I/O	CHARACTER		Reporting Period	Calculation ParameterType Code	Not reported for Nonroad.
PERIOD DAYS PER WEEK	NUMBER			No longer used	
PERIOD WEEKS PER PERIOD	NUMBER			No longer used	
PERIOD HOURS PER DAY	NUMBER			No longer used	
PERIOD HOURS PER PERIOD	NUMBER			No longer used	
SUBMITTAL FLAG	CHARACTER			No longer used	
TRIBAL CODE	CHARACTER	Y		No longer used	

### 3.2.12 NIF: Control Equipment (CE) Record Type - Area and Nonroad Sources

The Control Equipment (CE) record type in NIF 3.0 identified the devices that were used to reduce emissions for an emissions process and pollutant. The EIS CERS XML schema allows both control measures and the pollutants being controlled to be reported in three complex types. The overall ControlApproach identifies the emissions process and one or more ControlMeasures (or devices) independent of one or more ControlPollutants being controlled by the total overall ControlApproach.

**Figure A3-12**  
**NIF: Control Equipment - Area and Nonroad Sources**

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y		No longer used	
SCC	CHARACTER	Y		No longer used	
POLLUTANT CODE	CHARACTER	Y	Control Pollutant	PollutantCode	
PRIMARY PCT CONTROL EFFICIENCY	DECIMAL			No longer used	
PCT CAPTURE EFFICIENCY	DECIMAL		Process Control Approach	PercentControl ApproachCapture Efficiency	The PCT CAPTURE EFFICIENCY value reported for each pollutant must be the same for each pollutant reported for the control.  Not reported for Nonroad.

(cont.)

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
TOTAL CAPTURE CONTROL EFFICIENCY	DECIMAL		Control Pollutant	Percent Control Measure Reduction Efficiency	The Total CAPTURE EFFICIENCY is used to calculate the PercentControl MeasureReduction Efficiency in the EIS, using the formula $([TOTAL CAPTURE CONTROL EFFICIENCY]/[PCT CAPTURE EFFICIENCY] * 100)$ .  Not reported for Nonroad.
PRIMARY DEVICE TYPE CODE	CHARACTER	Y	Control Measure	ControlMeasure Code	
SECONDARY DEVICE TYPE CODE	CHARACTER		Control Measure	ControlMeasure Code	
CONTROL SYSTEM DESCRIPTION	CHARACTER		Process Control Approach	ControlApproach Description	
SUBMITTAL FLAG	CHARACTER			No longer used	
TRIBAL CODE	CHARACTER	Y		No longer used	

### 3.2.13 NIF: Emissions (EM) Record Type - Area and Nonroad Sources

The Emissions (EM) record type in NIF 3.0 identified the emissions and calculation methods for each process and pollutant.

**Figure A3-13**  
**NIF: Emissions - Area and Nonroad Sources**

<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y		No longer used	
SCC	CHARACTER	Y		No longer used	
POLLUTANT CODE	CHARACTER	Y	Reporting Period Emissions	PollutantCode	
START DATE	NUMBER	Y		No longer used	
END DATE	NUMBER	Y		No longer used	
START TIME	NUMBER			No longer used	
END TIME	NUMBER			No longer used	
EMISSION NUMERIC VALUE	DECIMAL	Y	Reporting Period Emissions	TotalEmissions	
EMISSION UNIT NUMERATOR	CHARACTER	Y	Reporting Period Emissions	EmissionsUnitofMeasureCode	
EMISSION TYPE	CHARACTER	Y		No longer used	Replaced with ReportingPeriod component.
EM RELIABILITY INDICATOR	DECIMAL			No longer used	
FACTOR NUMERIC VALUE	DECIMAL		Reporting Period Emissions	EmissionFactor	
FACTOR UNIT NUMERATOR	CHARACTER		Reporting Period Emissions	EmissionFactorNumeratorUnitofMeasureCode	
FACTOR UNIT DENOMINATOR	CHARACTER		Reporting Period Emissions	EmissionFactorDenominatorUnitofMeasureCode	

(cont.)

NIF 3.0 Data Element	NIF 3.0 Data Type	Required in NIF 3.0?	EIS CERS Component	EIS CERS XML Data Element	Notes
MATERIAL	NUMBER			No longer used	MATERIAL is no longer reported at the emissions level. It is reported as the calculation parameters data (activity data) in Reporting Period for nonpoint sources.
MATERIAL I/O	CHARACTER			No longer used	Material I/O is no longer reported at the Emissions level. It is reported as the calculation parameters data (activity data) in Reporting Period for nonpoint sources.
EMISSION CALCULATION METHOD CODE	CHARACTER		ReportingPeriod Emissions	Emission Calculation MethodCode	
EF RELIABILITY INDICATOR	CHARACTER			No longer used	
RULE EFFECTIVENESS	DECIMAL			No longer used	
RULE EFFECTIVENESS METHOD	CHARACTER			No longer used	
RULE PENETRATION	DECIMAL			No longer used	
SUBMITTAL FLAG	CHARACTER			No longer used	
TRIBAL CODE	CHARACTER	Y		No longer used	

### 3.2.14 NIF: Transmittal (TR) Record Type - Onroad Source

The Transmittal (TR) record type in NIF 3.0 contained a single record for an entire submission. It identified the State, County, or Tribal code of the reporting jurisdiction. This information is now identified by the single XML element UserIdentifier. The transmittal record also indicated the source type (e.g., onroad). The CERS XML schema does not require the separate designation of data categories in the submission, but will derive this from the reported SCCs.

**Figure A3-14**  
**NIF: Transmittal - Onroad Source**

<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y		No longer used	
ORGANIZATION NAME	CHARACTER	Y	Exchange Header	Organization	
TRANSACTION TYPE	CHARACTER	Y		No longer used	There is no longer a distinction between an original and a replacement submission.
INVENTORY YEAR	NUMBER	Y	EIS CERS XML Root	EmissionsYear	
INVENTORY TYPE CODE	CHARACTER	Y		No longer used	CAPs and HAPs are expected to be submitted together in the same file submission.
TRANSACTION CREATION DATE	NUMBER	Y	Exchange Header	Creation Time	These data are created by the tool that submits the XML file, and identifies the date and time the XML document was sent.
INCREMENTAL SUBMISSION NUMBER	NUMBER	Y		No longer used	
RELIABILITY INDICATOR	DECIMAL	Y		No longer used	
TRANSACTION COMMENTS	CHARACTER	Y	EIS CERS XML Root	Submittal Comment	
CONTACT PERSON NAME	CHARACTER	Y	Exchange Header	ContactInfo	
CONTACT PHONE NUMBER	CHARACTER	Y	Exchange Header	ContactInfo	
TELEPHONE NUMBER TYPE NAME	CHARACTER	Y	Exchange Header	ContactInfo	

(cont.)



<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
ELECTRONIC ADDRESS TEXT	CHARACTER	Y		No longer used	
ELECTRONIC ADDRESS TYPE NAME	CHARACTER	Y		No longer used	
SOURCE TYPE	CHARACTER	Y		No longer used	The source type is derived from the data reported in the file.
AFFILIATION TYPE	CHARACTER	Y		No longer used	
FORMAT VERSION	DECIMAL	Y		No longer used	Only EIS CERS XML documents are accepted.
TRIBAL CODE	CHARACTER	Y		No longer used	

### 3.2.15 NIF: Emissions Period (PE) Record Type - Onroad Source

The Emissions Period (PE) record type in NIF 3.0 identified the emissions process, calculation parameters data (otherwise known as throughput), and reporting period for the emissions submission. The record type specified the start and end date for the reported period.

**Figure A3-15**  
**NIF: Emissions Period - Onroad Source**

<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y	Location	StateAndCounty FIPSCode	
SCC	CHARACTER	Y	Location Emissions Process	Source Classification Code	
START DATE	NUMBER	Y		No longer used	
END DATE	NUMBER	Y		No longer used	
START TIME	NUMBER			No longer used	
END TIME	NUMBER			No longer used	
ACTUAL THROUGHPUT	DECIMAL		Reporting Period	Calculation ParameterValue	
THROUGHPUT UNIT NUMERATOR	CHARACTER		Reporting Period	Calculation ParameterUnitof Measure	
SUBMITTAL FLAG	CHARACTER			No longer used	
TRIBAL CODE	CHARACTER	Y	Location	TribalCode	

### **3.2.16 NIF: Emissions (EM) Record Type - Onroad Source**

The Emissions (EM) record type in NIF 3.0 identified the emissions data and activity for each process and pollutant.

**Figure A3-16**  
**NIF: Emissions - Onroad Source**

<b>NIF 3.0 Data Element</b>	<b>NIF 3.0 Data Type</b>	<b>Required in NIF 3.0?</b>	<b>EIS CERS Component</b>	<b>EIS CERS XML Data Element</b>	<b>Notes</b>
RECORD TYPE	CHARACTER	Y		No longer used	
STATE AND COUNTY FIPS CODE	CHARACTER	Y		No longer used	
SCC	CHARACTER	Y		No longer used	
START DATE	NUMBER	Y		No longer used	
END DATE	NUMBER	Y		No longer used	
START TIME	NUMBER			No longer used	
END TIME	NUMBER			No longer used	
POLLUTANT CODE	CHARACTER	Y	Reporting Period Emissions	PollutantCode	
EMISSION PROCESS DESCRIPTION	CHARACTER		Location Emissions Process	Process Description	
EMISSION NUMERIC VALUE	DECIMAL	Y	Reporting Period Emissions	TotalEmissions	
EMISSION UNIT NUMERATOR	CHARACTER	Y	Reporting Period Emissions	EmissionsUnitof MeasureCode	
EMISSION TYPE	CHARACTER	Y		No longer used	Replaced with Reporting Period complex type.
EM RELIABILITY INDICATOR	DECIMAL			No longer used	
SUBMITTAL FLAG	CHARACTER			No longer used	
TRIBAL CODE	CHARACTER	Y		No longer used	

### 3.3 EIS CERS XML Elements Mapped to NIF Data Elements

This half of the document shows how the EIS CERS XML schema components, and data elements are mapped to the corresponding NIF 3.0 data elements for each data category. There is a section for each major data group in the EIS CERS; Facility Inventory, Point Emissions, Nonpoint (Location), and Event. Since the EIS CERS shares components among the major data groups, many of the same components are repeated in each section.

Event components and data elements are shown for reference. Since it is a new data category, it does not map directly to NIF 3.0 data elements. For the remaining categories, EIS CERS XML elements that were not part of NIF 3.0 are identified as *"New Data Elements."* in the NIF 3.0 Data Element column.

The CERS is used by several programs, and as such, includes components and data elements not needed by EIS. ***The following CERS components should not be included in an EIS CERS XML submission and do not appear in this document: ReleasePointTest, CO2Equivalent, Individual, QualityFinding, QualityIdentification, and Communication.*** Data elements included in components for the major data groups for EIS that should not be reported are identified as *"Not Used by EIS."*

EIS CERS XML data elements may be mapped to more than one NIF 3.0 record type depending on the data category the component is being reported. In the case of the OperatingDetails component, the type of reporting period (Annual or Seasonal) are mapped from different NIF 3.0 record types. In these cases, refer to Section 3.2 of this document to map the XML elements and attributes to the appropriate NIF data element.

### 3.3.1 EIS CERS: EIS CERS Root Elements

These EIS CERS elements identify the Agency that reported the emissions and the applicable inventory year. For information on reporting these XML elements, see Section 5, "Submitting XML Data to the EIS." The EIS CERS Root Elements are included in all submissions.

**Figure A3-17**  
**EIS CERS: EIS CERS Root Elements**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
UserIdentifier									<i>New Data Element</i>
ProgramSystemCode									<i>New Data Element</i>
EmissionsYear	X								INVENTORY YEAR
Model									<i>New Data Element</i>
ModelVersion									<i>New Data Element</i>
EmissionsCreationDate									<i>New Data Element</i>
SubmittalComment	X								TRANSACTION COMMENTS

### 3.3.2 Facility Inventory Major Data Group

Use the Facility Inventory Major Data Group to report facility site information and point emissions. The EIS CERS supports facility information and identifiers, corporate ownership, geographic information, and information about units, release points, air pollution controls, and applicable regulations. Facilities have either processes or activities that produce air pollution. These are linked directly to the emissions values and supporting information for a specified time period.

#### 3.3.2.1 EIS CERS: FacilitySite Component

The FacilitySite complex type is used to report a facility site name, category, and operating status. This component is used to report facility inventory data.

**Figure A3-18**  
**EIS CERS: FacilitySite Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
FacilityCategoryCode		X							FACILITY CATEGORY
FacilitySiteName		X							FACILITY NAME
FacilitySiteDescription		X							SITE DESCRIPTION
FacilitySiteStatusCode									<i>New Data Element</i>
FacilitySiteStatusCodeYear									<i>New Data Element</i>
SectorTypeCode									<i>Not Used by EIS</i>
AgencyName									<i>Not Used by EIS</i>
FacilitySiteComment									<i>New Data Element</i>

#### 3.3.2.2 EIS CERS: FacilityNAICS Component

The FacilityNAICS component is the North American Industry Classification System code assigned to facility site based on economic profile. This component is used to report facility inventory data.

**Figure A3-19**  
**EIS CERS: FacilityNAICS Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
NAICSCode		X							NAICS PRIMARY
NAICSPrimaryIndicator									<i>Not Used by EIS</i>

### 3.3.2.3 EIS CERS: FacilityIdentification Component

The FacilityIdentification component reports identifiers by which the facility site is currently known or has been known in previous inventory cycles, and the Agency information management system associated with the identifier. These can be identifiers from either Agency or Tribal systems. This component replaces the need to report the TRI ID, NTI Site ID, DUN and BRADSTREET Number, and CAMD ORISPL in the SITE record. This component is used to report facility inventory data.

**Figure A3-20**  
**EIS CERS: FacilityIdentification Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
FacilitySiteIdentifier		X							STATE FACILITY IDENTIFIER FACILITY REGISTRY IDENTIFIER
ProgramSystemCode									<i>New Data Element</i>
StateAndCountyFIPSCode		X							STATE AND COUNTY FIPS CODE
TribalCode		X							TRIBAL CODE
StateAndCountryFIPSCode									<i>New Data Element</i>
EffectiveDate									<i>New Data Element</i>
EndDate									<i>New Data Element</i>

### 3.3.2.4 EIS CERS: AlternativeFacilityName Component

The AlternativeFacilityName component is used to report alternative names by which a facility site is currently known or has been known in previous inventory cycles. This component is used to report facility inventory data.

**Figure A3-21**  
**EIS CERS: AlternativeFacilityName Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
AlternativeName									<i>New Data Element</i>
ProgramSystemCode									<i>New Data Element</i>
AlternativeNameTypeText									<i>New Data Element</i>
EffectiveDate									<i>New Data Element</i>

### 3.3.2.5 EIS CERS: FacilitySiteAffiliation Component

The Affiliation component identifies the relationship between the facility site and an organization, like a parent company. This component is used to report facility inventory data.

**Figure A3-22**  
**EIS CERS: FacilitySiteAffiliation Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
AffiliationTypeCode									<i>New Data Element</i>
AffiliationStartDate									<i>Not Used in EIS</i>
AffiliationEndDate									<i>Not Used in EIS</i>

### 3.3.2.6 EIS CERS: AffiliationOrganization Component

The Organization component identifies the organization that directs, is responsible for, or has authority over the activities and operations of the facility site. This component is used to report facility inventory data.

**Figure A3-23**  
**EIS CERS: Organization Complex Type**

XML Element Name	NIF Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
OrganizationFormalName									<i>New Data Element</i>
PercentOwnership									<i>Not Used in EIS</i>
ConsolidationMethodology									<i>Not Used in EIS</i>

### 3.3.2.7 EIS CERS: FacilitySiteAddress Component

The FacilitySiteAddress component includes identifiers by which the facility site is known or has been known, and the system associated with the identifier. It is used for reporting the physical location of a facility site. This component is used to report facility inventory data.



**Figure A3-24**  
**EIS CERS: FacilitySiteAddress Complex Type**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
MailingAddressText									<i>Not Used by EIS</i>
SupplementalAddressText									<i>Not Used by EIS</i>
MailingAddressCityName									<i>Not Used by EIS</i>
MailingAddressCountyText									<i>Not Used by EIS</i>
MailingAddressStateCode									<i>Not Used by EIS</i>
MailingAddressPostalCode									<i>Not Used by EIS</i>
MailingAddressCountryCode									<i>Not Used by EIS</i>
LocationAddressText		X							LOCATION ADDRESS
SupplementalLocationText									<i>New Data Element</i>
LocalityName		X							CITY
LocationAddressStateCode		X							STATE
LocationAddressPostalCode		X							ZIPCODE
LocationAddressCountryCode									<i>New Data Element</i>
AddressComment									<i>New Data Element</i>

### 3.3.2.8 EIS CERS: FacilitySiteGeographicCoordinates Component

The FacilitySiteGeographicCoordinates Component identifies the geographic location of the facility site. The geographic coordinates of facility sites were not recorded in NIF 3.0. See section 3.3.2.10 "EIS CERS: ReleasePointGeographicCoordinates Component" for the release point geographic coordinates mapping. This component is used to report facility inventory data.

**Figure A3-25**  
**EIS CERS: FacilitySiteGeographicCoordinates Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
LatitudeMeasure									<i>New Data Element</i>
LongitudeMeasure									<i>New Data Element</i>
SourceMapScaleNumber									<i>New Data Element</i>
HorizontalAccuracyMeasure									<i>New Data Element</i>
HorizontalAccuracyUnitofMeasure									<i>New Data Element</i>
HorizontalCollectionMethodCode									<i>New Data Element</i>
HorizontalReferenceDatumCode									<i>New Data Element</i>
GeographicReferencePointCode									<i>New Data Element</i>
DataCollectionDate									<i>New Data Element</i>
GeographicComment									<i>New Data Element</i>
VerticalMeasure									<i>New Data Element</i>
VerticalUnitofMeasureCode									<i>New Data Element</i>
VerticalCollectionMethodCode									<i>New Data Element</i>
VerticalReferenceDatumCode									<i>New Data Element</i>
VerificationMethodCode									<i>New Data Element</i>
CoordinateDataSourceCode									<i>New Data Element</i>
GeometricTypeCode									<i>New Data Element</i>
AreaWithinPerimeter									<i>New Data Element; only reported with Event Geographic Coordinates</i>
AreaWithinPerimeterUnitof Measure Code									<i>New Data Element; only reported with Event Geographic Coordinates</i>
PercentofAreaPrducingEmissions									<i>New Data Element; only reported with Event Geographic Coordinates</i>

### 3.3.2.9 EIS CERS: EmissionsUnit Component

The EmissionsUnit component identifies an activity, stationary article, process equipment, machine, or other device from which air pollutants emanate or are emitted either directly or indirectly into the environment at the facility site. This component is used to report facility inventory data.

**Figure A3-26**  
**EIS CERS: EmissionsUnit Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
Scope									<i>Not Used by EIS</i>
UnitDescription			X						EMISSION UNIT DESCRIPTION
UnitTypeCode									<i>New Data Element</i>
UnitSourceLocation									<i>Not Used by EIS</i>
InsignificantSourceIndicator									<i>Not Used by EIS</i>
UnitDesignCapacity			X						DESIGN CAPACITY
UnitDesignCapacityUnitofMeasure Code			X						DESIGN CAPACITY UNIT NUMERATOR/DENOMINATOR
UnitStatusCode									<i>New Data Element</i>
UnitStatusCodeYear									<i>New Data Element</i>
UnitOperationDate									<i>New Data Element</i>
UnitCommercialOperationDate									<i>Not Used by EIS</i>
UnitComment									<i>New Data Element</i>

### 3.3.2.10 EIS CERS: UnitIdentification Component

The UnitIdentification component is used to report identifiers by which the emissions unit is currently known or was known in previous inventory cycles. This component is used to report facility inventory data.

**Figure A3-27**  
**EIS CERS: UnitIdentification Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
Identifier			X						Emission Unit ID/ORIS BOILER ID
ProgramSystemCode									<i>New Data Element</i>
EffectiveDate									<i>New Data Element</i>
EndDate									<i>New Data Element</i>

### 3.3.2.11 EIS CERS: UnitRegulation Component

The UnitRegulation component is used to report federal and non-federal regulations affect emissions units. In NIF 3.0 all regulations were reported at the emissions process level. As a result there is no direct mapping of NIF 3.0 to EIS CERS data elements. This component is used to report facility inventory data.

**Figure A3-28**  
**EIS CERS: UnitRegulation Complex Type**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
RegulatoryCode									<i>New Data Element</i>
AgencyCodeText									<i>New Data Element</i>
RegulatoryStartYear									<i>New Data Element</i>
RegulatoryEndYear									<i>Not used by EIS</i>
RegulationComment									<i>New Data Element</i>

### 3.3.2.12 EIS CERS: UnitControlApproach Component

The UnitControlApproach component identifies the overall control approach for the unit, including capture effectiveness, where applied to an emissions unit. In NIF 3.0 all control equipment was reported at the emissions process level. As a result, there is no direct mapping of

NIF 3.0 to the EIS CERS data elements. This component is used to report facility inventory data.

Reporting control measures has changed significantly from the NIF 3.0 approach and therefore there is limited mapping from the previous NIF 3.0 data elements to the EIS CERS data elements. See Section 6, "Reporting Instructions for Facility Inventory," and Section 7, "Reporting Instruction for Point Emissions" for further information on reporting control approaches for point sources.

**Figure A3-29**  
**EIS CERS: UnitControlApproach Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
ControlApproachDescription						X			<i>CONTROL SYSTEM DESCRIPTION</i>
PercentControlApproachCapture Efficiency						X			<i>PCT CAPTURE EFFICIENCY</i>
PercentControlApproachEffectiveness									<i>New Data Element</i>
PercentControlApproachPenetration									<i>New Data Element; Reported for Nonpoint Only</i>
FirstInventoryYear									<i>New Data Element</i>
LastInventoryYear									<i>New Data Element</i>
ControlApproachComment									<i>New Data Element</i>

### 3.3.2.13 EIS CERS: ControlMeasure Component (UnitControlApproach)

The ControlMeasure component is used to report the control devices and practices associated with the control approach. This component is used to report facility inventory data.

**Figure A3-30**  
**EIS CERS: ControlMeasure Component (UnitControlApproach)**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
ControlMeasureCode						X			PRIMARY DEVICE TYPE CODE, SECONDARY DEVICE TYPE CODE, THIRD DEVICE TYPE CODE, FOURTH DEVICE TYPE CODE
ControlMeasureSequence									<i>Not Used by EIS</i>

#### 3.3.2.14 EIS CERS: ControlPollutant Component (UnitControlApproach)

The ControlPollutant component is used to report the pollutants controlled by the control devices and practices. This component is used to report facility inventory data.

**Figure A3-31**  
**EIS CERS: ControlPollutant Component (UnitControlApproach)**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
PollutantCode						X			POLLUTANT CODE
PercentControlMeasureReduction Efficiency						X			<i>TOTAL CAPTURE CONTROL EFFICIENCY</i>

#### 3.3.2.15 EIS CERS: UnitEmissionsProcess Complex Type

The UnitEmissionsProcess Component identifies the specific operational activities that produce emissions either directly or indirectly. This component is reported for facility inventory and point emissions. The Process component is mapped to the NIF 3.0 Emissions Process (EP) record type for point sources. This component is used to report facility inventory data.

**Figure A3-32**  
**EIS CERS: UnitEmissionsProcess Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
SourceClassificationCode					X				SCC
EmissionsTypeCode									<i>New Data Element</i>
AircraftEngineTypeCode									<i>New Data Element</i>
ProcessTypeCode									<i>Not Used by EIS</i>
ProcessDescription					X				EMISSION PROCESS DESCRIPTION
LastEmissionsYear									<i>New Data Element</i>
ProcessComment									<i>New Data Element</i>

### 3.3.2.16 EIS CERS: ProcessIdentification Component (UnitEmissionsProcess)

The ProcessIdentification component contains a designator used to uniquely identify an emissions process. This component is used to report facility inventory data.

**Figure A3-33**  
**EIS CERS: ProcessIdentification Component (UnitEmissionsProcess)**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
Identifier					X				Process ID
ProgramSystemCode									<i>New Data Element</i>
EffectiveDate									<i>Not Used by EIS</i>
EndDate									<i>Not Used by EIS</i>

### 3.3.2.17 EIS CERS: ProcessControlApproach Component (UnitEmissionsProcess)

The ProcessControlApproach component identifies the overall control approach for the process, including capture effectiveness, where applied at an emissions process. This component is used to report facility inventory data.

Reporting control measures has changed significantly from the NIF 3.0 approach and therefore there is limited mapping from the previous NIF 3.0 data elements to the EIS CERS data elements. See Section 6, "Reporting Instructions for Facility Inventory" and Section 7, "Reporting Instructions for Point Emissions," for further information on reporting control approaches for point sources.

**Figure A3-34**  
**EIS CERS: ProcessControlApproach Component (UnitEmissionsProcess)**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
ControlApproachDescription						X			CONTROL SYSTEM DESCRIPTION
PercentControlApproachCapture Efficiency						X			PCT CAPTURE EFFICIENCY
PercentControlApproachEffectiveness									<i>New Data Element</i>
PercentControlApproachPenetration									<i>New Data Element; Used for Nonpoint Only</i>
FirstInventoryYear									<i>New Data Element</i>
LastInventoryYear									<i>New Data Element</i>
ControlApproachComment									<i>New Data Element</i>

### 3.3.2.18 EIS CERS: ControlMeasure Component (ProcessControlApproach)

The ControlMeasure component is used to report the control devices and practices associated with the control approach. This component is used to report facility inventory and nonpoint data.



**Figure A3-35**  
**EIS CERS: ControlMeasure Component (ProcessControlApproach)**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
ControlMeasureCode						X			PRIMARY DEVICE TYPE CODE, SECONDARY DEVICE TYPE CODE, THIRD DEVICE TYPE CODE FOURTH DEVICE TYPE CODE
ControlMeasureSequence									<i>Not Used by EIS</i>

### 3.3.2.19 EIS CERS: ControlPollutant Component (ProcessControlApproach)

The ControlPollutant component is used to report the pollutants controlled by the control devices and practices. This component is used to report facility inventory and nonpoint data.

**Figure A3-36**  
**EIS CERS: ControlPollutant Component (ProcessControlApproach)**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
PollutantCode						X			POLLUTANT CODE
PercentControlMeasureReduction Efficiency						X			<i>TOTAL CAPTURE CONTROL EFFICIENCY</i>

### 3.3.2.20 EIS CERS: ProcessRegulation Component (UnitEmissionsProcess)

The ProcessRegulation component is used to report federal and non-federal regulations that affect emissions processes. This component is used to report facility inventory data.

**Figure A3-37**  
**EIS CERS: ProcessRegulation Component (UnitEmissionsProcess)**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
RegulatoryCode					X				PROCESS MACT CODE
AgencyCodeText									<i>New Data Element</i>
RegulatoryStartYear									<i>New Data Element</i>
RegulatoryEndYear									<i>Not Used by EIS</i>
RegulationComment									<i>New Data Element</i>

### 3.3.2.21 EIS CERS: ReleasePointApportionment Component

The ReleasePointApportionment component is used to report the percent of emissions from a process that is vented to an emission release point. This component allows an emission process to be routed to multiple release points. There is no corresponding data in the NIF 3.0. This component is used to report facility inventory data.

**Figure A3-38**  
**EIS CERS: ReleasePointApportionment Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
AveragePercentEmissions									<i>New Data Element</i>
ReleasePointApportionmentComment									<i>New Data Element</i>

### 3.3.2.22 EIS CERS: ReleasePointApportionmentIdentification Component

The ReleasePointApportionmentIdentification component contains the identifier for the release point reported in the ReleasePointApportionment component. This component is used to report facility inventory data.

**Figure A3-39**  
**EIS CERS: ReleasePointApportionmentIdentification Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
Identifier									<i>New Data Element</i>
ProgramSystemCode									<i>New Data Element</i>
EffectiveDate									<i>Not Used by EIS</i>
EndDate									<i>Not Used by EIS</i>

### 3.3.2.23 EIS CERS: ReportingPeriod Component (UnitEmissionsProcess)

The ReportingPeriod component is used to report the time period for which the emissions and related calculation parameters data were submitted. The ReportingPeriod component is used for all data categories.

**Figure A3-40**  
**EIS CERS: ReportingPeriod Component (UnitEmissionsProcess)**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
ReportingPeriodTypeCode									<i>New Data Element</i>
EmissionOperatingTypeCode									<i>New Data Element</i>
StartDate							X		START DATE (Only applicable for episodic and event reporting)
EndDate							X		END DATE (Only applicable for episodic and event reporting)
CalculationParameterTypeCode							X		MATERIAL I/O
CalculationParameterValue							X		ACTUAL THROUGHPUT
CalculationParameterUnitofMeasure							X		THROUGHPUT UNIT NUMERATOR THROUGHPUT UNIT DENOMINATOR
CalculationMaterialCode							X		MATERIAL
CalculationData Year									<i>New Data Element</i>
CalculationDataSource									<i>New Data Element</i>
ReportingPeriodComment									<i>New Data Element</i>

### 3.3.2.24 EIS CERS: OperatingDetails Component

The OperatingDetails component is used to report the operating schedule for the emissions process during the reported period. This component is used to report point and nonpoint data.

The OperatingDetails component is mapped to either the NIF 3.0 Emissions Process (EP) or Emissions Period (PE) record type based on the reporting period type (Annual or Seasonal). The operational data for an annual reporting period is mapped to the NIF 3.0 Emissions Process (EP) record type. The seasonal reporting period data is mapped to the NIF 3.0 Emissions Period (PE) record type. For more information on mapping your NIF data elements to the OperatingDetails component, see Section 3.2 of this document.

**Figure A3-41**  
**EIS CERS: OperatingDetails Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
ActualHoursPerPeriod					X				PERIOD HOURS PER PERIOD; Not used for Nonpoint reporting
AverageDaysPerWeek					X				PERIOD DAYS PER WEEK; Not used for Nonpoint reporting
AverageHoursPerDay					X				PERIOD HOURS PER DAY; Not used for Nonpoint reporting
AverageWeeksPerPeriod					X				PERIOD WEEKS PER PERIOD; Not used for Nonpoint reporting
PercentWinterActivity					X				WINTER THROUGHPUT PCT
PercentSpringActivity					X				SPRING THROUGHPUT PCT
PercentSummerActivity					X				SUMMER THROUGHPUT PCT
PercentFallActivity					X				FALL THROUGHPUT PCT

### 3.3.2.25 EIS CERS: SupplementalCalculationParameter Component

The SupplementalCalculationParameter component is used to report additional emissions calculation input parameters. The component is used for point and nonpoint data.

**Figure A3-42**  
**EIS CERS: SupplementalCalculationParameter Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
SupplementalCalculationParameterType					X		X		HEAT/SULFUR/ASH CONTENT
SupplementalCalculationParameter Value									<i>New Data Element</i>
SupplementalCalculationParameter NumeratorUnitofMeasureCode									<i>New Data Element</i>
SupplementalCalculationParameter DenominatorUnitofMeasureCode									<i>New Data Element</i>
SupplementalCalculationParameterData Year									<i>New Data Element</i>
SupplementalCalculationParameterData Source									<i>New Data Element</i>
SupplementalCalculationParameter Comment									<i>New Data Element</i>

### 3.3.2.26 EIS CERS: ReportingPeriodEmissions Component

The ReportingPeriodEmissions component is used to report pollutants that were emitted for an emissions process during the reporting period. This complex type is reported for all categories of data.

**Figure A3-43**  
**EIS CERS: ReportingPeriodEmissions Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
PollutantCode								X	POLLUTANT CODE
TotalEmissions								X	EMISSION NUMERIC VALUE
EmissionsUnitofMeasureCode								X	EMISSION UNIT NUMERATOR EMISSIONS UNIT DENOMINATOR
EmissionFactor								X	FACTOR NUMERIC VALUE
EmissionFactorNumeratorUnitof MeasureCode								X	FACTOR UNIT NUMERATOR
EmissionFactorDenominatorUnitof MeasureCode								X	FACTOR UNIT DENOMINATOR
EmissionFactorFormulaCode									<i>Not Used by EIS</i>
EmissionFactorText									<i>New Data Element</i>
EmissionCalculationMethodCode								X	EMISSION CALC METHOD CODE
EmissionsFactorReferenceText									<i>New Data Element</i>
AlgorithmFormulaText									<i>Not used by EIS</i>
AlgorithmComment									<i>Not used by EIS</i>
CalculationMethodAccuracy AssessmentCode									<i>Not used by EIS</i>
EmissionsDeMinimisStatus									<i>Not used by EIS</i>
EmissionsComment									<i>New Data Element</i>

### 3.3.2.27 EIS CERS: ReleasePoint Component

The ReleasePoint component identifies the point at which emissions are released into the environment, via a stack or fugitive release. This component is used to report facility inventory data.

**Figure A3-44**  
**EIS CERS: ReleasePoint Complex Type**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
ReleasePointTypeCode				X					EMISSION RELEASE TYPE
ReleasePointDescription				X					EMISSION RELEASE PT DESCRIPTION
ReleasePointStackHeightMeasure				X					STACK HEIGHT
ReleasePointStackHeightUnitofMeasureCode									<i>New Data Element</i>
ReleasePointStackDiameterMeasure				X					STACK DIAMETER
ReleasePointStackDiameterUnitofMeasureCode									<i>New Data Element</i>
ReleasePointExitGasVelocityMeasure				X					EXIT GAS VELOCITY
ReleasePointExitGasVelocityUnitofMeasureCode									<i>New Data Element</i>
ReleasePointExitGasFlowRateMeasure				X					EXIT GAS FLOW RATE
ReleasePointExitGasFlowRateUnitofMeasureCode									<i>New Data Element</i>
ReleasePointExitGasTemperatureMeasure				X					EXIT GAS TEMPERATURE
ReleasePointFenceLineDistanceMeasure				X					STACK FENCELINE DISTANCE
ReleasePointFenceLineDistanceUnitofMeasureCode									<i>New Data Element</i>
ReleasePointFugitiveHeightMeasure				X					RELEASE HEIGHT FUGITIVE
ReleasePointFugitiveHeightUnitofMeasureCode									<i>New Data Element</i>
ReleasePointFugitiveWidthMeasure									<i>New Data Element</i>
ReleasePointFugitiveWidthUnitofMeasureCode									<i>New Data Element</i>
ReleasePointFugitiveLengthMeasure									<i>New Data Element</i>
ReleasePointFugitiveLengthUnitofMeasureCode									<i>New Data Element</i>
ReleasePointFugitiveAngleMeasure									<i>New Data Element</i>

(cont.)



EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
ReleasePointComment									<i>New Data Element</i>
ReleasePointStatusCode									<i>New Data Element</i>
ReleasePointStatusCodeYear									<i>New Data Element</i>

### 3.3.2.28 EIS CERS: ReleasePointIdentification Component

The ReleasePointIdentification component is an identifier by which the emissions release point is currently known or has been known in previous inventory cycles. This component is used to report facility inventory data.

**Figure A3-45**  
**EIS CERS: ReleasePointIdentification Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
Identifier				X					EMISSION RELEASE POINT ID
ProgramSystemCode									<i>New Data Element</i>
EffectiveDate									<i>Not Used by EIS</i>
EndDate									<i>Not Used by EIS</i>

### 3.3.2.29 EIS CERS: ReleasePointGeographicCoordinates Component

The ReleasePointGeographicCoordinates component identifies the geographic location of the emission release point. This component is used to report facility inventory data.

**Figure A3-46**  
**EIS CERS: ReleasePointGeographicCoordinates Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
LatitudeMeasure				X					Y COORDINATE
LongitudeMeasure				X					X COORDINATE
SourceMapScaleNumber				X					SOURCE MAP SCALE NUMBER
HorizontalAccuracyMeasure				X					HORIZONTAL ACCURACY MEASURE
HorizontalAccuracyUnitofMeasure									<i>New Data Element</i>
HorizontalCollectionMethodCode				X					HORIZONTAL COLLECTION MTHD COD
HorizontalReferenceDatumCode				X					HORIZONTAL REFERENCE DATUM CODE
GeographicReferencePointCode				X					REFERENCE POINT CODE
DataCollectionDate									<i>New Data Element</i>
GeographicComment									<i>New Data Element</i>
VerticalMeasure									<i>New Data Element</i>
VerticalUnitofMeasureCode									<i>New Data Element</i>
VerticalCollectionMethodCode									<i>New Data Element</i>
VerticalReferenceDatumCode									<i>New Data Element</i>
VerificationMethodCode									<i>New Data Element</i>
CoordinateDataSourceCode				X					COORDINATE DATA SOURCE CODE
GeometricTypeCode									<i>New Data Element</i>
AreaWithinPerimeter									<i>New Data Element; only reported with Event Geographic Coordinates</i>
AreaWithinPerimeterUnitof Measure Code									<i>New Data Element; only reported with Event Geographic Coordinates</i>
PercentofAreaPrducingEmissions									<i>New Data Element; only reported with Event Geographic Coordinates</i>

### 3.3.3 Location Major Data Group

Use of the Location Major Data Group allows a reporter to aggregate and report emissions for a specific type of activity or process for a given geographic area.

The EIS CERS supports geographic boundary identification (including country, State, Tribal, County, census block, and tract or geospatial area), as well as areas that are excluded from that location. Emissions occur during a specific time period from activities that occur at that location. Control reduction approaches may be reported for these processes and operating details indicate the seasonal variations. Supplemental parameters allow the reporting of additional input data used to calculate emissions.

Location reporting is the primary method by which State, Local, and Tribal Agencies will report Nonpoint, Onroad, and Nonroad emissions.

#### 3.3.3.1 EIS CERS: Location Component

The Location component is used to report the location of Nonpoint or onroad/nonroad emissions sources. For each location, a combination of geographic identifiers (State and County FIPS or Tribal codes) and the SCCs found in the EmissionsProcess component is used to identify the data category for processing within the EIS.

The Location component is mapped to the NIF 3.0 Emissions Period (PE) record type for onroad emissions and to the NIF 3.0 Emissions Process (EP) record type for nonpoint and nonroad emissions.

**Figure A3-47**  
**EIS CERS: Location Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
StateAndCountyFIPSCode					X		X		STATE AND COUNTY FIPS CODE
TribalCode					X		X		TRIBAL CODE
StateAndCountryFIPSCode									<i>New Data Element</i>
CensusBlockIdentifier									<i>New Data Element</i>
CensusTractIdentifier									<i>New Data Element</i>
ShapeIdentifier									<i>New Data Element</i>
LocationComment									<i>New Data Element</i>

### 3.3.3.2 EIS CERS: ExcludedLocationParameter Component

The ExcludedLocationParameter component identifies a location whose emissions are excluded from the primary reporting location by identifying one or more Tribal codes, census block identifiers, census tract identifiers, or shape identifiers as parameters. This component is used to report nonpoint, onroad, and nonroad data.

**Figure A3-48**  
**EIS CERS: ExcludedLocationParameter Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
LocationTypeCode									<i>New Data Element</i>
LocationParameter									<i>New Data Element</i>
LocationComment									<i>New Data Element</i>

### 3.3.3.3 EIS CERS: LocationEmissionsProcess Component

The LocationEmissionsProcess component identifies the specific operational activities that produce emissions, either directly or indirectly. The Source Classification Code (SCC) in combination with the EmissionsTypeCode replaces the alphanumeric SCC that previously was reported for onroad/nonroad emissions processes. See Section 10, "Reporting Instructions for Onroad and Nonroad Emissions" for further information. This component is reported for nonpoint, onroad, and nonroad emissions data.

The LocationEmissionsProcess component is mapped to the NIF 3.0 Emissions Process (EP) record type for nonpoint and nonroad sources. The NIF 3.0 Emissions Period (PE) record type is mapped to the LocationEmissionsProcess component for onroad sources.

**Figure A3-49**  
**EIS CERS: LocationEmissionsProcess Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
SourceClassificationCode					X		X		SCC
EmissionsTypeCode									<i>New Data Element</i>
AircraftEngineTypeCode									<i>New Data Element</i>
ProcessTypeCode									<i>Not Used by EIS</i>
ProcessDescription					X			X	EMISSION PROCESS DESCRIPTION
LastEmissionsYear									<i>New Data Element</i>
ProcessComment									<i>New Data Element</i>

### 3.3.3.4 EIS CERS: ProcessRegulation Component (LocationEmissionsProcess)

The ProcessRegulation component is used to report federal and non-federal regulations that affect emissions processes. This component is used to report nonpoint data only.

**Figure A3-50**  
**EIS CERS: ProcessRegulation Component (LocationEmissionsProcess)**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
RegulatoryCode					X				PROCESS MACT CODE
AgencyCodeText									<i>New Data Element</i>
RegulatoryStartYear									<i>New Data Element</i>
RegulatoryEndYear									<i>Not Used by EIS</i>
RegulationComment									<i>New Data Element</i>

### 3.3.3.5 EIS CERS: ProcessControlApproach Component (LocationEmissionsProcess)

The ProcessControlApproach component identifies the overall control approach, including capture effectiveness, where applied to a process. This component is used to report nonpoint data only.

Reporting control measures has changed significantly from the NIF 3.0 approach and therefore there is limited mapping to the EIS CERS XML elements. See the reporting instructions for Section 8, "Reporting Instructions for Nonpoint Emissions," for further information on reporting control approaches for nonpoint sources.

**Figure A3-51**  
**EIS CERS: ProcessControlApproach Component (LocationEmissionsProcess)**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
ControlApproachDescription						X			CONTROL SYSTEM DESCRIPTION
PercentControlApproachCapture Efficiency						X			PCT CAPTURE EFFICIENCY
PercentControlApproachEffectiveness									<i>New Data Element</i>
PercentControlApproachPenetration									<i>New Data Element</i>
FirstInventoryYear									<i>New Data Element; Used for point emissions only</i>
LastInventoryYear									<i>New Data Element; Used for point emissions only</i>
ControlApproachComment									<i>New Data Element</i>

### 3.3.3.6 EIS CERS: ControlMeasure Component

The ControlMeasure component is used to report the control devices and practices associated with the control approach. This component is used to report facility inventory and nonpoint data.

**Figure A3-52**  
**EIS CERS: ControlMeasure Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
ControlMeasureCode						X			PRIMARY DEVICE TYPE CODE, SECONDARY DEVICE TYPE CODE, THIRD DEVICE TYPE CODE, FOURTH DEVICE TYPE CODE
ControlMeasureSequence									<i>Not used by EIS</i>

### 3.3.3.7 EIS CERS: ControlPollutant Component

The ControlPollutant component is used to report the pollutants controlled by the control devices and practices. This component is used to report facility inventory and nonpoint data.

**Figure A3-53**  
**EIS CERS: ControlPollutant Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
PollutantCode						X			POLLUTANT CODE
PercentControlMeasureReduction Efficiency						X			<i>TOTAL CAPTURE CONTROL EFFICIENCY</i>

### 3.3.3.8 EIS CERS: ReportingPeriod Component (LocationEmissionsProcess)

The ReportingPeriod component is used to report the time period for which the emissions and related calculation parameters data were submitted. The ReportingPeriod component is required nonpoint, onroad, and nonroad data.

**Figure A3-54**  
**EIS CERS: ReportingPeriod Component (LocationEmissionsProcess)**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
ReportingPeriodTypeCode									<i>New Data Element</i>
EmissionOperatingTypeCode									<i>New Data Element</i>
StartDate							X		START DATE (Only applicable for episodic and event reporting)
EndDate							X		END DATE (Only applicable for episodic and event reporting)
CalculationParameterTypeCode							X		MATERIAL I/O
CalculationParameterValue							X		ACTUAL THROUGHPUT
CalculationParameterUnitofMeasure							X		THROUGHPUT UNIT NUMERATOR THROUGHPUT UNIT DENOMINATOR
CalculationMaterialCode							X		MATERIAL
CalculationData Year									<i>New Data Element</i>
CalculationDataSource									<i>New Data Element</i>
ReportingPeriodComment									<i>New Data Element</i>

### 3.3.3.9 EIS CERS: OperatingDetails Component Type

The OperatingDetails component is used to report the operating schedule for the emissions process during the reporting period. This complex type is used to report nonpoint data only.

The OperatingDetails complex type is mapped to either NIF 3.0 Emissions Process (EP) or Emissions Period (PE) record type based on the reporting period type (Annual or Seasonal). The operational data for an annual reporting period is mapped to NIF 3.0 Emissions Process (EP) record type. The seasonal reporting period data is mapped to NIF 3.0 Emissions Period (PE) record type. For more information on mapping your NIF data elements to the OperatingDetails complex type see Section 3.2 of this document.



**Figure A3-55**  
**EIS CERS: OperatingDetails Components**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
ActualHoursPerPeriod					X		X		PERIOD HOURS PER PERIOD; Only used for point emissions
AverageDaysPerWeek					X		X		PERIOD DAYS PER WEEK; Only used for point emissions
AverageHoursPerDay					X		X		PERIOD HOURS PER DAY; Only used for point emissions
AverageWeeksPerPeriod					X		X		PERIOD WEEKS PER PERIOD; Only used for point emissions
PercentWinterActivity					X				WINTER THROUGHPUT PCT
PercentSpringActivity					X				SPRING THROUGHPUT PCT
PercentSummerActivity					X				SUMMER THROUGHPUT PCT
PercentFallActivity					X				FALL THROUGHPUT PCT

### 3.3.3.10 EIS CERS: SupplementalCalculationParameter Components

The SupplementalCalculationParameter component is used to report additional emissions calculation input parameters. The component is used for point and nonpoint data only.

**Figure A3-56**  
**EIS CERS: SupplementalCalculationParameter Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
SupplementalCalculationParameterType					X		X		HEAT/SULFUR/ASH CONTENT
SupplementalCalculationParameterValue									<i>New Data Element</i>
SupplementalCalculationParameterNumeratorUnitofMeasureCode									<i>New Data Element</i>
SupplementalCalculationParameterDenominatorUnitofMeasureCode									<i>New Data Element</i>
SupplementalCalculationParameterDataYear									<i>New Data Element</i>
SupplementalCalculationParameterDataSource									<i>New Data Element</i>
SupplementalCalculationParameterComment									<i>New Data Element</i>

### 3.3.3.11 EIS CERS: ReportingPeriodEmissions Component

The ReportingPeriodEmissions component is used to report pollutants that were emitted for an emissions process during the reporting period. This component is reported for nonpoint, nnroad, and nonroad data.

**Figure A3-57**  
**EIS CERS: ReportingPeriodEmissions Component**

EIS CERS XML Element Name	NIF 3.0 Record Type								NIF 3.0 Data Element
	TR	SI	EU	ER	EP	CE	PE	EM	
PollutantCode								X	POLLUTANT CODE
TotalEmissions								X	EMISSION NUMERIC VALUE
EmissionsUnitofMeasureCode								X	EMISSION UNIT NUMERATOR
EmissionFactor								X	FACTOR NUMERIC VALUE
EmissionFactorNumeratorUnitofMeasureCode								X	FACTOR UNIT NUMERATOR
EmissionFactorDenominatorUnitofMeasureCode								X	FACTOR UNIT DENOMINATOR
EmissionFactorFormulaCode									<i>Not used by EIS</i>
EmissionFactorText									<i>New Data Element</i>
EmissionCalculationMethodCode								X	EMISSION CALC METHOD CODE
EmissionsFactorReferenceText									<i>New Data Element</i>
AlgorithmFormulaText									<i>Not used by EIS</i>
AlgorithmComment									<i>Not used by EIS</i>
CalculationMethodAccuracyAssessmentCode									<i>Not used by EIS</i>
EmissionsDeMinimisStatus									<i>Not used by EIS</i>
EmissionsComment									<i>New Data Element</i>

### 3.3.4 Event Major Data Group

Use the Event major data group to report emissions caused by sporadic or unplanned activities, such as a wild fires, wildland use fires, or agricultural and prescribed burns. An event is defined by its geographic or spatial characteristics, and the timeframe in which it occurs.

The EIS CERS provides for the reporting of either geographic coordinates or geospatial information. An event may be comprised of several smaller events which may merge into one larger Event complex.

#### **3.3.4.1 EIS CERS: Event Component**

The Event component identifies the event, reporting land manager, management methods, and data sources for fires. There are no NIF 3.0 data elements that map to this component.

#### **3.3.4.2 EIS CERS: Attached File Component**

The AttachedFile component references an file attached to the EIS CERS XML schema. This component is reported for Events and Location only. There are no NIF 3.0 data elements that map to this component.

#### **3.3.4.3 EIS CERS: MergedEvents Component**

The MergedEvents component identifies discrete events that merged into an event complex. There are no NIF 3.0 data elements that map to this component.

#### **3.3.4.4 EIS CERS: EventReportingPeriod Component**

The EventReportingPeriod component identifies the time period for which emissions are reported. There are no NIF 3.0 data elements that map to this component.

#### **3.3.4.5 EIS CERS: EventLocation Component**

The EventLocation component identifies the location where the event occurred. There are no NIF 3.0 data elements that map to this component.

#### **3.3.4.6 EIS CERS: EventGeographicCoordinates Component**

The EventGeographicCoordinates component identifies the geographic location of the event. Events use the EventGeographicCoordinates component to report the location for any given day during an event. There are no NIF 3.0 data elements that map to this component.

#### **3.3.4.7 EIS CERS: GeospatialParameters Component**

The GeospatialParameters component describes the geospatial location of an event using shape file information. There are no NIF 3.0 data elements that map to this component.

#### **3.3.4.8 EIS CERS: EventEmissionsProcess Component**

The EventEmissionsProcess component describes the fuels, fuel conditions, combustion characteristics, and activity that produce emissions. There are no NIF 3.0 data elements that map to this component.

**3.3.4.9 EIS CERS: EventEmissionsProcessEmissions Component**

The EventEmissionsProcessEmissions component is used to report pollutants that were emitted for an Event emissions process during the reporting period. There are no NIF 3.0 data elements that map to this component.

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