

## Emissions Inventory Documentation Suggestions for 8-Hour Ozone and PM2.5 SIP Submittals

Provide emissions data for each applicable precursor pollutant for the NAAQS being addressed in the nonattainment area and the SIP. All of the pollutants indicated in the following tables may not be applicable to the SIP submittal. They are included as an example.

If the nonattainment area is an interstate nonattainment area, emissions data for those counties in adjacent states of the nonattainment area should also be included in the summary tables.

If a control strategy includes sources in counties outside of the nonattainment area, additional tables may be needed to address those emissions.

The following are slanted toward the nonattainment area but it could also be used to address emissions in the entire state.

### **Point Source Emissions**

1. Table with 2002 Base year point source emission (i.e., not typical emissions) by facility for the nonattainment area (definitely and any other point sources in the surrounding areas if used as a control strategy in the attainment. Metric units

Example:

2002 Base year Point Source Emission by Facility for the nonattainment area									
FIPS	County	Name	Type	Emissions (tons per day)					
				NOx	SO2	VOC	PM2.5	PM10	NH3
			Power plant						
			Pulp n paper						
TOTAL									

2. Table with attainment year control strategy point source emissions by facility for the nonattainment area (definitely) and any other point sources in the surrounding areas if used as a control strategy in the attainment. Metric units

Attainment Control Strategy Emission by Facility for the nonattainment area									
FIPS	County	Name	Type	Emissions (tons per day)					
				NOx	SO2	VOC	PM2.5	PM10	NH3
			Power plant						
			Pulp n paper						

TOTAL						
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3. Other 2002 base year emissions used in the attainment demonstration, such as the typical EGU emissions developed by some Regional Planning Organizations (RPOs) should be summarized in a by facility for the nonattainment area (definitely and any other point sources in the surrounding areas if used as a control strategy in the attainment. A discussion on the assumptions used to develop these emissions should document the rationale and use of these emissions. Metric units

2002 Typical Base year EGU Point Source Emission for the nonattainment area									
FIPS	County	Name	Years used	Emissions (tons per day)					
				NOx	SO2	VOC	PM2.5	PM10	NH3
TOTAL									

**Modeling emissions for point sources**

4. Spreadsheet/Table with control(s) stack parameters and emissions modeled for point sources for the nonattainment area (definitely) and any other point sources in the surrounding areas if used as a control strategy in the attainment. Metric units

Example:

county	Plant name	Emission unit	Control (s)	Control % or Efficiency	UTM north	UTM east	Stack height	Stack diam.	Exit vel.	Exit temp	Emission rates (grams per second)				
											NOx	SO2	VOC	PM2.5	NH3

**Stationary Area Source Emissions**

5. Table with area source emissions by category by county for the nonattainment area for the 2002 base year and attainment control strategy. (Metric Units)

Example

County	Category descriptor	NOx	SO2	VOC	PM2.5	PM10	NH3
	Tank truck unloading						
	Solid waste incinerators						
	Open burning						
<b>2002 Base year totals</b>							

County	Category descriptor	NOx	SO2	VOC	PM2.5	PM10	NH3
	Tank truck unloading						
	Solid waste incinerators						
	Open burning						
<b>Attainment Control strategy totals</b>							

### **Nonroad Area Source Emissions**

6. Table with nonroad emissions by category by county for the nonattainment area for the 002 base year and attainment control strategy. Documentation should also describe how the NONROAD model was used in developing emissions. The procedures to develop airport, locomotive/rail, and commercial marine emissions (if applicable) should be documented. (Metric Units)

Example

County	Category descriptor	NOx	SO2	VOC	PM2.5	PM10	NH3
	NONROAD model						
	Airports (individually if possible, especially for major airports, e.g., Atlanta, Charlotte, etc.)						
	Locomotives/railroads/rail yards						
	Commercial Marine						
<b>2002 Base year totals</b>							

County	Category descriptor	NOx	SO2	VOC	PM2.5	PM10	NH3
	NONROAD model						
	Airports (individually if possible, especially for major airports, e.g., Atlanta, Charlotte, etc.)						
	Locomotives/railroads/rail yards						
	Commercial Marine						
<b>Attainment Control strategy totals</b>							

### **On-Road Mobile Source Emissions**

7. Table with base year, horizon year(s), budget year(s) attainment year totals, and the safety margin. (A table could be developed to [resent this data.]

### **Summary Emission Tables for Base year and Attainment Strategy**

8. Table that summarizes, for the 2002 base year and attainment control strategy, the emissions in the entire nonattainment area by county, each applicable precursor pollutant and source category.

Example:

2002 Base Year Nonattainment Area NOx Emission Inventory Summary (tons per year)

County	State	Point	Stationary Area	Nonroad Mobile	On-Road Mobile	Totals
County 1						
County 2						
County 3						
<b>Totals</b>						

Attainment Control Strategy Nonattainment Area NOx Emission Inventory Summary (tons per year)

County	State	Point	Stationary Area	Nonroad Mobile	On-Road Mobile	Totals
County 1						
County 2						
County 3						
<b>Totals</b>						

**Control Strategy**

8. Table with a list of controls, SIP regulation numbers, type of permit used (if applicable) or method that makes the control permanent, enforceable, quantifiable and surplus as used to develop the attainment control strategy and the reductions the controls will achieve from the 2002 base year inventory. Voluntary controls should be included and identified as such. Indicate which controls were modeled. If possible include the counties for which specific controls are applicable.