

Appendix 5

Maintenance Plan Template

I. INTRODUCTION AND BACKGROUND:

A. Purpose

The “purpose section” should provide a brief overview why the original SIP was developed, the name of the nonattainment area (NAA), designation date and classification status of the area, and identification of the pollutants covered.

Each SIP for a nonattainment area that requires a demonstration of projected compliance with the NAAQS will be unique.

B. Description of Area

This section is a description of the geographic location, geographic extent, geographic features, population, local governmental entities, economy, and meteorology of the area. This section should also include the legal description of the area (boundary) as in 40 CFR Part 81. It will be used in future maintenance area planning requirements such as trigger dates for PSD increment baseline (which will be different from other areas of the state.)

C. Designation and SIP Planning History

Describe the history of the area’s designation including air quality data upon which it was based and cite the Federal Register notices designating area nonattainment. Provide Federal Register citations. This section should provide answers to the following questions:

- When was the area originally designated nonattainment and what was the classification?
- What actions have occurred since original designation: reclassification to serious, extension of attainment dates, changing boundaries, etc?
- What is the attainment date for the area?

Provide a history of the approval of the nonattainment area SIP that was prepared for the area. Provide a citation of the Federal Register notice. This discussion should also include actions including; attainment findings, re-classification, failure to attain, and other actions related to the area.

II. AMBIENT DATA

CAA section 110(a)(2)(B): The State must provide for the establishment and operation of appropriate devices, methods, systems, and procedures necessary to monitor, compile, and analyze data on ambient air quality and upon request, make such data available to the Administrator.

A. Ambient Air Monitoring Surveillance

Discuss the ambient air quality monitoring network and include such things as scale of representativeness, purpose of site, location of monitors, and when EPA last approved the network. Discuss when monitoring began at each site. Discuss samplers or monitoring instruments and whether they are Federal Reference or Equivalent Methods. Discuss quality assurance and validity of data. Discuss data reporting to AIRS data base. You might want to include special studies such as saturation monitoring.

B. Air Quality Data and Analysis

Present an analysis of air quality data. Highlight when violations were recorded. Discuss any analysis of the data to characterize the source, transport, and fate of the pollution including seasonal variation, correlation to meteorological conditions, and trends.

Present violation data for each monitoring site for all averaging times for the pollutant. Specify the base year and provide a rationale for selection as the base year. Calculate the design value for each site for the base year.

III. Nonattainment Area SIP

Discuss the control measures that were included in the approved nonattainment area plan. Include the date of adoption by the State of each measure. Discuss whether the control measure will continue into the future as a maintenance plan measure.

Discuss Section 110 Requirements. This discussion should include when these provisions were previously approved. Provide FR citations for such approval and whether these measures continue into the period covered by the maintenance plan.

Discuss Part D Requirements. This discussion should include when these provisions were previously approved. Provide FR citations for such approval and whether these provisions continue into the period of the maintenance.

Assure that rules approved for the nonattainment area remain in effect for the maintenance area as appropriate. PSD baseline year will need to be clearly identified for maintenance area.

IV. Maintenance Plan

A. Emission Inventory

Provide emission inventories; 1) base year inventory of actual emissions, and 2) ten year projected inventory of allowable emissions. The allowable emissions for stationary sources is based on permitted emission limits. Allowable emissions for unregulated sources or source categories, or for which there are no quantified emission limits, should be based on anticipated worst case emissions for the averaging time periods of the NAAQS. The base year inventory presents actual emissions for the same year that is the base year for the air quality design value. Provide adequate documentation to clearly show how emission estimates were calculated. Include all assumptions, data sources, emission factors and calculations so that the inventory could be recreated at some point in the future. The projected inventory may provide a new

motor vehicle emission budget against which transportation conformity will be judged.

B. Maintenance Plan Control Strategy

Specify those control measures from the nonattainment area SIP, any new control measures that are adopted for this plan, and any other measures that will remain in effect that will protect the NAAQS. This could be presented in a table that lists each control measure, the effective date of the measure, and as appropriate the date EPA previously approved the measure. Accompanying the Table should be a brief description of the measure, how it will be implemented (i.e. how will it work) and the emission reductions that are projected by the measure.

C. Maintenance Demonstration

Demonstrate that the control strategy is adequate to protect the NAAQS. This demonstration is usually done through air quality modeling, in particular dispersion modeling. In general the level of demonstration will need to be comparable with the level of modeling contained in the original nonattainment area SIP. In many instances modeling technology has significantly improved since the original SIP was prepared. Therefore a different model will most likely be used.

D. Contingency Plan

Contingency measures will need to be included in the plan. These can be a continuation of the contingency measures in the original nonattainment area SIP, or they could be new measures. They could be triggered at some specified level less than a measured violation. Control measures contained in the original NAA SIP that are removed from the maintenance plan, must be included in the maintenance plan as contingency measures.

E. Transportation Conformity

Transportation conformity rules have either been previously approved by EPA, or the EPA rules apply. The maintenance plan however, will contain an on road motor vehicle emissions budget. Discuss the emission budget and how it will be used for conformity determinations.

V. Conclusion

Appendices:

Attachment C – Redesignation Checklist

Air Quality Data

Emission Inventories

Dispersion Model Input files

Dispersion Model results

Public Hearing Announcements

Public Hearing transcripts or summary

Response to Comments

SIP Adoption Certificate