SIP Revision: HGB One-Hour Ozone Attainment Demonstration and Post-1996 ROP, May 6, 1998

Revisions to the Houston-Galveston-Brazoria (HGB) Attainment Demonstration and Post-1996 Rate-of-Progress (ROP) State Implementation Plan (SIP) for the one-hour ozone National Ambient Air Quality Standard (NAAQS).

Summary of the SIP Revision

Adoption Date: 5/6/1998
Proposal Date: 2/4/1998

EPA Approval Date: 4/25/2001, Post-1996 ROP Plan (66 FR 20746)

Background: On July 18, 1997, the United States Environmental Protection Agency (EPA) set new eight-hour ozone NAAQS intended to replace the previous one-hour NAAQS. The EPA provided implementation guidance for areas that were not yet attaining the one-hour ozone NAAQS on December 29, 1997. Under this guidance, states were required to submit a SIP revision that would:

- demonstrate that all measures and regulations required for the area under Subpart 2 of the Federal Clean Air Act had been or would soon be adopted and implemented;
- list the measures needed to meet ROP requirements beyond 1999 and attain the one-hour NAAQS, including:
  - federal measures and their expected emission reduction benefit,
  - planned state measures,
  - control measures to be debated amongst area stakeholders, and
  - measures that required further study;
- commit to submit a post-1999 ROP plan that would include any control measures needed to meet post-1999 milestones and attain the one-hour NAAQS; and
- commit to implementing control programs and regulations in a timely manner.

Key Changes: This SIP revision met these requirements by including modeling, identification of the level of controls necessary to achieve attainment of the one-hour ozone NAAQS, identification of emissions sources for potential future control strategies, and a commitment schedule for future attainment demonstration SIP submittals. This revision substituted volatile organic compounds (VOC) or nitrogen oxide (NO\textsubscript{x}) reductions for certain emission sources to compensate for reductions that the EPA planned to disapprove in the previous 9% ROP SIP revisions.

SIP Narrative and Appendices

Files linked from this page are in Portable Document Format (PDF).

HGB Attainment Demonstration SIP Revision (Project No. 1997-184-SIP-AI)
- HGB Attainment Demonstration SIP Narrative including Post-1996 ROP Plan Revisions
Texas State Implementation Plan

- Figures
- Evaluation of Testimony

Appendices
- Appendix 9c-A: Episode Selection and Meteorology
- Appendix 9c-B: Base Case Emissions Inventory
- Appendix 9c-C: Performance Evaluation
- Appendix 9c-D: Future Case Emissions Inventory
- Appendix 9c-E: Modeling Results
- Appendix 9c-F: Application of Smog Production Algorithms to the Coastal Oxidant Assessment for Southeast Texas Data
- Appendix 9c-G: Decrease in Ambient Air Concentrations of Benzene, Toluene, and Total Xylene in Southeast Texas
- Appendix 9c-H: Calculations of Potential VOC and NO\textsubscript{x} Reductions-Tables & Explanations
- Appendix 9c-I: Regional Reduction Strategy
- Appendix 9c-J: Calculations of Options Suggested During the Public Comment Process
- Appendix 11-A: Alternate Methods of Control (no change from Nov 1994)
- Appendix 11-B: Control Measure Catalog (no change from Dec 1995)
- Appendix 11-C: Creditable Reductions for Houston/Galveston (no change from July 1996 SUPER SIP Appendix 11-C)
- Appendix 11-D: Mobile5 Runs for Houston-Galveston (no change from July 1996 SUPER SIP Appendix 11-D)
- Appendix 11-E: UAM Modeling Reports for Beaumont–Port Arthur and Houston-Galveston (no change from Nov 1994)
- Appendix 11-F: Texas’ Phased Attainment Demonstration (no change from July 1996 SUPER SIP Appendix 11-F)
- Appendix 11-G: Transportation Control Measures (no change from July 1996 SUPER SIP Appendix 11-G)
- Appendix 11-H: RACT Catch-Ups Creditable Reductions (no change from July 1996 SUPER SIP Appendix 11-H)
- Appendix 11-I: Evaluation of Reasonably Available Control Technology (RACT) (no change from July 1996 SUPER SIP)
- Appendix 11c-J: Documentation of NO\textsubscript{x} Point Source Growth From 1990–1999
- Appendix 11c-K: Additional Documentation of Point Source NO\textsubscript{x} and VOC Reductions
- Appendix 11c-L: March 17, 1998 Updates to the 9% SIP Houston-Galveston Ozone Nonattainment Area On-Road Mobile Source Emissions Inventories and Individual Control Program Reductions