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SIP Revision: Attainment Demonstration for the Houston-Galveston (HGA) Nonattainment Area, May 6, 1998

Revisions to the Houston-Galveston-Brazoria (HGB) AD 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: 05/06/1998

Proposal Date: 02/04/1998

EPA Approval Date: 04/25/2001 ([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 (FCAA) 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 oxides (NO_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)

- **Adopted HGB SIP Revision (Including Post-1996 ROP Plan Revisions)**
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 - **Evaluation of Testimony**
- Appendices
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 - **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 NOX Point Source Growth From 1990-1999**



- **Appendix 11c-K: Additional Documentation of Point Source NOX 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**