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SIP Revision: Post-1996 Rate of Progress (ROP), Houston-Galveston (HGA) and Beaumont-Port Arthur (BPA), November 9, 1994

On November 9, 1994, the Texas Natural Resource Conservation Commission (TNRCC) adopted an ROP State Implementation Plan (SIP) revision for the HGA and BPA ozone nonattainment areas.

Summary of the SIP Revision

Adoption Date: 11/09/1994

Proposal Date: 07/27/1994

EPA Action: The United States Environmental Protection Agency (EPA) proposed to disapprove the original 1994 plan on March 9, 1998 ([63 FR 11387](#)) however after it was revised, the EPA approved the fully revised SIP on April 25, 2001 ([66 FR 20746](#)).

Background: Since the BPA area was classified as serious and the HGA area was classified as severe for the one-hour ozone National Ambient Air Quality Standard (NAAQS), each with attainment deadlines beyond 1996, the state was required to demonstrate that those areas would achieve additional emissions reductions of an average of 3% per year between 1997 and 1999 beyond the 15% reduction required between 1990 and 1996. This SIP revision demonstrated that national and state rules would achieve the required reductions in BPA by the end of 1999.

Based on subsequent review of the BPA area's ozone-monitoring data recording lower levels, the EPA reclassified the BPA area as moderate nonattainment for one-hour ozone on April 2, 1996. When the EPA corrected the BPA area's classification to moderate, the area was no longer subject to the Post-1996 ROP plan requirements.

The HGB Post-1996 ROP plan was subsequently revised on December 13, 1995, July 24, 1996, and May 6, 1998.

Key Changes: This SIP revision fulfilled the 9% ROP requirements laid out in the 1990 Federal Clean Air Act (FCAA). This requirement stipulates that a plan be submitted by November 15, 1994, demonstrating an annual 3% reduction (9% net of growth) of volatile organic compounds (VOC) and/or nitrogen oxides (NO_x) until 1999 for BPA or 2007 for HGB.

The Phase II 15% ROP SIP (adopted in May 1994), had not included sufficient contingency measures for the BPA and HGA nonattainment areas. This SIP revision identified the complete list of contingency measures for these areas. The HGA area's contingency plan relied on three existing regulations that would add emissions reductions in 2000 beyond what would have been achieved by 1999: the Federal Clean Fuel Fleet (FCFF) program, recreational marine standards, and small utility engine standards. The BPA area included emissions reductions in 2000 from these programs as well, but also included regulations on marine vessel loading and industrial



wastewater, which the state would be required to trigger if the area failed to attain the ozone standard or make the required reductions by 1999.

This SIP revision also included urban airshed modeling (UAM) to show the relationship between levels of VOC and NO_x and ozone formation. The modeling showed that due to the complex photochemistry involved in ozone formation in these two areas, NO_x controls would actually increase ozone formation. Based on these results, the TNRCC renewed its request for an exemption from NO_x reasonably available control technology (RACT) and NO_x transportation conformity requirements for the two areas. This SIP revision also committed to submitting a final attainment demonstration SIP for the two areas based on UAM using data from the 1993 Coastal Oxidant Assessment for Southeast Texas (COAST) study.

SIP Narrative and Appendices

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

HGA and BPA Post-1996 ROP SIP Revision

- **HGA/BPA ROP SIP Revision**
- Appendices
 - **Appendix A: Alternate Methods of Control**
 - **Appendix B: Control Measure Catalog**
 - **Appendix C: Creditable Reductions for Beaumont-Port Arthur and Houston-Galveston**
 - **Appendix D: Mobile 5a Runs for Beaumont-Port Arthur and Houston-Galveston**
 - Appendix E: UAM Modeling Reports for Beaumont-Port Arthur and Houston-Galveston (Not Available)