



THE SIP FILES ON THIS PAGE ARE HOSTED BY THE [TEXAS RECORDS AND INFORMATION LOCATOR \(TRAIL\) WEB ARCHIVE](#). IF YOU NEED ASSISTANCE WITH A FILE, PLEASE CONTACT [SIPRULES@TCEQ.TEXAS.GOV](mailto:SIPRULES@TCEQ.TEXAS.GOV).

## SIP Revision: 1993 Rate of Progress (ROP) for Dallas-Fort Worth (DFW), Beaumont-Port Arthur (BPA), El Paso (ELP), and Houston-Galveston (HGA) Nonattainment Areas (Phase II), May 13, 1994

On May 13, 1994, the Texas Natural Resource Conservation Commission (TNRCC) adopted Phase II of an ROP State Implementation Plan (SIP) revision for the DFW, BPA, ELP, and HGA areas.

### Summary of the SIP Revision

**Adoption Date:** 05/13/1994

**EPA Actions:** On 01/29/1996, the United States Environmental Protection Agency (EPA) proposed limited approval of parts and limited disapproval of other parts of the 15% ROP Plans included in this SIP revision and the October 1993 revision ([61 FR 2751](#)). The plans were revised in 1996. The 15% ROP was approved for the BPA area on 02/10/1998, ([63 FR 6659](#)), and was conditionally approved for the other areas on 11/10/1998, since full approval required changes to the I/M program ([63 FR 62943](#)). Full approval of the HGA plan came with the EPA's approval of the I/M programs on 11/14/2001 ([66 FR 57160](#)). The EPA fully approved the DFW 15% ROP on 04/12/2005 ([70 FR 18993](#)).

**Background:** This SIP revision constituted the second phase of the 15% ROP plan for the DFW, ELP, BPA, and HGA ozone nonattainment areas ([Phase I](#) was adopted on November 10, 1993). It included additional control measures for the HGA and BPA areas that were needed to demonstrate the mandatory 15% reduction in volatile organic compounds (VOC) emissions by 1996. The analysis in Phase I indicated that those rules would not be sufficient to achieve the required reductions in the HGA area, and subsequent analysis indicated that they would not be sufficient for the BPA area either. Although Phase II specifically addressed the shortfalls in the HGA and BPA areas, the new point source VOC controls in this SIP revision were also applied to the ELP and DFW areas in order to meet the 3% emission reduction requirement for the areas' contingency plans. This plan did not include sufficient contingency measures reductions for the HGA and BPA areas to achieve the required 3% reductions if the areas failed to meet the 1996 ROP milestone.

### Key Changes:

This SIP revision contained the following new point source rules:

- Expanding the vent gas rule to restrict VOC emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) reactor process and distillation units (HGA, BPA, DFW, ELP);
- Requiring industrial wastewater operations to cover wastewater treatment areas and route vapors through a control device (HGA, DFW, and ELP);



- Fugitive emissions monitoring at gasoline terminals to detect and repair leaks from loading racks and transfer equipment during marine and other vessel loading (marine in HGA only, other vessel loading in HGA, BPA, DFW, and ELP);
- Vacuum-assisted vapor collection systems and automatic shutdown of the loading system during vapor control device malfunctions;
- A more stringent fugitive emissions monitoring program for natural gas plants, SOCFI, and refineries (HGA, BPA, DFW, and ELP);
- Limits on acetone usage at cultured marble and fiber-reinforced plastics operations to be replaced by acceptable acetone substitutes (HGA, DFW, ELP);
- Control requirements for several types of offset lithographic printing (HGA, DFW, and ELP);
- Rules to control VOC emissions from cleaning or repair of marine and other vessels (HGA, BPA, DFW, and ELP);
- At least 30% overall reductions of VOC for commercial bakeries if the total emissions exceeded 25 tpy (HGA, DFW, and ELP);
- New Source Performance Standards (NSPS) rules which used a gas extraction system to reduce VOC emissions from municipal landfills (HGA, DFW, ELP);
- Limitations for coatings and solvents used in automobile refinishing (HGA, DFW, ELP);
- Limitations for architectural coatings (HGA, DFW, ELP);
- Control requirements for dry cleaning operations which use VOC cleaning solvents (HGA, DFW, ELP); and
- Rules to control the amount of VOC used in consumer and commercial products (statewide).

New mobile source rules included:

- Emission limits for small gasoline powered and diesel utility engines (statewide);
- A low-RVP gasoline program (ELP);
- Rules for large commercial airports;
- A Stage II vapor recovery program; and
- An accelerated vehicle retirement program (HGA, DFW, ELP and BPA).

This SIP revision also brought Stage I vapor recovery requirements into alignment with Stage II requirements, new transportation control measures, new procedures for enforcing them, and a Reid vapor pressure (RVP)-controlled gasoline program in El Paso to substitute for reformulated gasoline requirements. The SIP also incorporated rule effectiveness improvements, including increases in compliance and enforcement staff and more detailed reporting requirements for upsets and maintenance.

## **SIP Narrative and Appendices**

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

### **Phase II 1993 ROP for DFW, BPA, El Paso, and HGA Nonattainment Areas SIP Revision**

- **ROP SIP Revision-Phase II**
- Appendices:



- Appendix A: State Implementation Plan (SIP) Revision Victoria Ozone Nonattainment Area Commitment to Petition for Redesignation After Successful Completion of Attainment Monitoring Period (No change from Phase I)
- Appendix B: Texas Air Control Board Rule Effectiveness Determination (No change from Phase I)
- Appendix C: Reasonably Available Control Technology (RACT) Fix-ups (No change from Phase I)
- Appendix D: RACT Catch-ups (No change from Phase I)
- Appendix E: Discussion of the Control Measure Catalog (No change from Phase I)
- Appendix F: SIP Revisions for the Stage II Vapor Recovery Program (No change from Phase I)
- Appendix G: Summary of Reductions from Benzene National Emissions Standards for Hazardous Air Pollutants (NESHAPS) (No change from Phase I)
- Appendix H: SIP Revision Rate-of-Progress Phase II Commitment/Contingency Measures (No change from Phase I)
- Appendix I: Formulas and Calculations of Creditable Emission Reductions (Not Available)
- Appendix J: SIP Revision Dallas/Fort Worth Ozone Nonattainment Area – Commitment to Use Urban Airshed Modeling for Attainment Demonstration (No change from Phase I)
- Appendix K: Summary of Transportation Control Measures for Dallas/Fort Worth and Houston/Galveston Ozone Nonattainment Areas (No change from Phase I)
- Appendix L: Mobile 5a Documentation for Mobile Source Reductions Credits (Adjusted Base Year) (Not Available)
- Appendix M: Mobile 5a Documentation for I/M Corrections (Not Available)
- Appendix N: Support Documentation for Shutdown Credits (No change from Phase I)
- Appendix O: Mobile 5a Documentation for Mobile Source Reductions Credits (Projected)