



SIP Revision: Houston-Galveston-Brazoria (HGB) 1997 Eight-Hour Ozone Attainment Demonstration, March 10, 2010

On March 10, 2010, the Texas Commission on Environmental Quality (TCEQ) adopted an Attainment Demonstration State Implementation Plan (SIP) revision for the HGB area.

Summary of the SIP Revision

Adoption Date: 03/10/2010

Proposal Date: 09/23/2009

EPA Action: Approved on January 2, 2014 ([79 FR 57](#)); Reasonably Available Control Technology (RACT) analysis approved on: April 2, 2013 ([78 FR 19599](#)), April 15, 2014 ([79 FR 21144](#)), August 4, 2014 ([79 FR 45105](#)), March 27, 2015 ([80 FR 16291](#))

Background: On October 1, 2008, the United States Environmental Protection Agency (EPA) approved Texas' request to reclassify the HGB 1997 eight-hour ozone nonattainment area from moderate to severe, with a new attainment deadline of June 15, 2019 ([73 FR 56983](#)). The state was required to submit an attainment demonstration SIP revision by April 15, 2010. On March 10, 2010, the TCEQ adopted the HGB 1997 eight-hour ozone attainment demonstration SIP revision to address severe ozone nonattainment area requirements (Non-Rule Project No. 2009-017-SIP-NR).

Related SIP Revisions: [HGB 1997 Eight-Hour Ozone Reasonable Further Progress SIP Revision](#), [2011 HGB RACT Analysis Update SIP Revision for the 1997 Eight-Hour Ozone Standard](#), [2013 HGB MVEB Update SIP Revision for the 1997 Eight-Hour Ozone Standard](#)

Key Changes: This SIP revision included a photochemical-modeling analysis and a weight-of-evidence analysis to demonstrate attainment of the 1997 eight-hour ozone standard by the June 15, 2019 deadline. As required by the EPA, this SIP revision also included motor vehicle emissions budgets (MVEB), volatile organic compounds (VOC) and nitrogen oxides (NO_x) RACT analyses, Reasonably Available Control Measures (RACM) analysis, and a contingency plan. In response to comments received, this SIP revision included a commitment to perform a mid-course review for commission consideration and approval.

The commission also adopted associated rule projects revising 30 Texas Administrative Code (TAC) Chapters 101 and 115, which addressed cap integrity in the Mass Emissions Cap and Trade (MECT) program, a cap reduction and allowance reallocation for the Highly Reactive Volatile Organic Compounds Emissions Cap and Trade (HECT) program, and updated Control Technique Guidelines (CTG) documents for VOC used in offset printing.

SIP Narrative

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

HGB AD SIP Revision (Non-Rule Project No. 2009-017-SIP-NR)

- [2010 HGB AD SIP Narrative](#)
- [2010 HGB AD SIP Response to Comments](#)
- Appendices



Texas State Implementation Plan

- **Appendix A: Meteorological Modeling for the HGB Attainment Demonstration SIP Revision for the 1997 Eight-Hour Ozone Standard**
- **Appendix B: Emissions Modeling for the HGB Attainment Demonstration SIP Revision for the 1997 Eight-Hour Ozone Standard**
- **Appendix C: Photochemical Modeling for the HGB Attainment Demonstration SIP Revision for the 1997 Eight-Hour Ozone Standard**
- **Appendix D: Reasonably Available Control Technology Analysis**
- **Appendix E: Reasonably Available Control Measure Analysis**
- **Appendix F: Evaluation of Mobile Source Control Strategies for the Houston-Galveston-Brazoria State Implementation Plan (With Detailed Strategies) Prepared for Houston-Galveston Area Council, Prepared by ENVIRON International Corporation**
- **Appendix G: Transportation Control Measures for the HGB Attainment Demonstration SIP Revision for the 1997 Eight-Hour Ozone Standard (Excerpt from Evaluation of Mobile Source Control Strategies for the Houston-Galveston-Brazoria State Implementation Plan), Prepared for the Houston-Galveston Area Council by ENVIRON International Corporation**
- **Appendix H: Voluntary Mobile Emission Reduction Program for the HGB Attainment Demonstration SIP Revision for the 1997 Eight-Hour Ozone Standard (Excerpt from Evaluation of Mobile Source Control Strategies for the Houston-Galveston-Brazoria State Implementation Plan), Prepared for the Houston-Galveston Area Council by ENVIRON International Corporation**
- **Appendix I: Corroborative Analysis for the HGB Attainment Demonstration SIP Revision for the 1997 Eight-Hour Ozone Standard**
- **Appendix J: Recommendations for Best Management Practices to Control and Reduce Inadvertent Cargo Vapor Emissions in the Tank Barge Community**

Associated Rule Revisions

The commission adopted the following rule revisions to support the HGB attainment demonstration SIP revision for the 1997 eight-hour ozone standard.

- **MECT Program**
 - **Rule Project No. 2009-019-101-EN, Chapter 101: MECT Program Cap Integrity for the HGB Eight-Hour Ozone Nonattainment Area**
 - EPA Approval: January 2, 2014 ([79 FR 57](#) )
- **HECT Program**
 - **Rule Project No. 2009-006-101-EN, Chapter 101: HECT Program Cap Reduction and Allowance Reallocation**
 - EPA Approval: January 2, 2014 ([79 FR 57](#) )
- **Offset Lithographic Printing**
 - **Rule Project No. 2008-019-115-EN, Chapter 115: VOC Control Technique Guidelines (CTG) Update for Offset Lithographic Printing**
 - EPA Approval: August 4, 2014 ([79 FR 45105](#) )