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SIP Revision: Houston-Galveston-Brazoria (HGB) 1997 Eight-Hour Ozone Nonattainment Area, May 23, 2007

On May 23, 2007, the Texas Commission on Environmental Quality (TCEQ) adopted a State Implementation Plan (SIP) revision for the HGB 1997 eight-hour ozone nonattainment area.

Summary of the SIP Revision

Adoption Date: 05/23/2007

Proposal Date: 12/13/2006

EPA Action: Reasonably available control technology (RACT) analysis approved on March 27, 2015 ([80 FR 16291](#), [79 FR 21144](#), [78 FR 19599](#))

Background: Effective June 15, 2004, the HGB area (Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller Counties) was designated nonattainment for the 1997 eight-hour ozone National Ambient Air Quality Standard (NAAQS) ([69 FR 23951](#)). The area was classified as moderate nonattainment with an attainment date of June 15, 2010.

On May 23, 2007, the commission adopted the 2007 HGB 1997 Eight-Hour Ozone Nonattainment Area SIP Revision along with associated rules and the 2007 HGB 1997 Eight-Hour Ozone Nonattainment Area Reasonable Further Progress SIP Revision. On June 15, 2007, the TCEQ submitted the SIP revisions to the EPA along with a request that the HGB area be reclassified from a moderate to a severe nonattainment area for the 1997 eight-hour ozone NAAQS, with an attainment deadline of June 15, 2019. (See the governor's [2007 reclassification request letter](#)).

Key Changes: The 2007 HGB 1997 Eight-Hour Ozone Nonattainment Area SIP Revision was the first step in addressing the 1997 eight-hour ozone standard in the HGB area. This SIP revision included:

- A RACT analysis;
- Additional Voluntary Mobile Emissions Reduction Program (VMEP) commitments; and
- The Texas 2002 Periodic Emissions Inventory for the HGB 1997 eight-hour ozone nonattainment area.

This SIP revision also incorporated amendments to 30 Texas Administrative Code (TAC) Chapter 114 to add certain marine fuels to the Texas Low Emission Diesel (TxLED) rules and Chapter 115 to address under-estimated, unreported, or under-reported volatile organic compounds (VOC) emissions from storage tank floating roof landings, flash emissions, and from degassing storage tanks, transport vessels, and marine vessels with liquid heels. In another associated rulemaking project (Rule Project no. 2006-034-117-EN), 30 TAC Chapter 117 was reformatted and the 10 nanogram per Joule heat input (ng/J) NO_x standard for residential water heaters was repealed in accordance with House Bill 965, 79th Legislature, 2005. The emission standard of 40 ng/J NO_x was retained.



SIP Narrative and Appendices

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

Note: Revisions proposed to photochemical modeling and corroborative analysis in Chapters 2 and 3, the reasonably available control measure (RACM) analysis in Chapter 4 and Appendix C, and the contingency measures in Chapter 4 were removed before adoption to allow time for them to be more adequately addressed (see the 2010 HGB Attainment Demonstration SIP Revision, 2011 RACT Analysis Update SIP Revision, and the 2013 HGB MVEB Update SIP Revision for more information). The adopted appendices were re-lettered accordingly.

Adopted HGB Nonattainment Area SIP Revision (Project No. 2006-027-SIP-NR)

- **Adopted 2007 HGB 1997 Eight-Hour Ozone Nonattainment Area SIP Revision**
- Adopted Appendices
 - **Appendix A: Voluntary Mobile Source Emission Reduction Programs for the Houston-Galveston-Brazoria Eight-Hour State Implementation Plan**
 - **Appendix B: Reasonably Available Control Technology Analysis**
 - **Appendix C: Evaluation of Mobile Source Control Strategies for the Houston-Galveston-Brazoria State Implementation Plan (Drafted by ENVIRON for the Houston-Galveston Area Council)**
 - **Appendix D: Final Draft Short List of Potential Mobile Source Control Measures (Drafted by ENVIRON and the Houston-Galveston Area Council)**
 - **Appendix E: Suggested Short List and Evaluation of Point and Area Source Emission Control Measures for the Houston-Galveston-Brazoria Eight-Hour Ozone Nonattainment Area (Drafted by ENVIRON for Lamar University)**
 - **Appendix F: Texas 2002 Periodic Emissions Inventory for the Houston-Galveston-Brazoria Nonattainment Area**

Associated Rules

The commission adopted the following state rule revisions on May 23, 2007 to support attainment of the 1997 eight-hour ozone NAAQS in the HGB area.

- **TxLED Program**
 - **Rule Project No. 2006-036-114-EN, Chapter 114: TxLED for Certain Marine Fuels**
 - EPA approval: October 24, 2008 (73 FR 63378 [↗](#))
- **Controlling VOC Emissions**
 - **Rule Project No. 2006-038-115-EN, Chapter 115: Control of VOC Emissions from Storage and Transfer Operations for the Eight-Hour Ozone Standard**
 - EPA approval: March 29, 2010 (75 FR 15348 [↗](#))