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SIP Revision: 2008 Eight-Hour Ozone Reasonable Further Progress (RFP), Houston-Galveston-Brazoria (HGB), December 15, 2016

On December 15, 2016, the Texas Commission on Environmental Quality (TCEQ) adopted an RFP State Implementation Plan (SIP) revision for the HGB moderate nonattainment area under the 2008 eight-hour ozone National Ambient Air Quality Standard (NAAQS).

Summary of the SIP Revision

Adoption Date: 12/15/2016

Proposal Date: 09/21/2016

EPA Approval Date: 02/13/2019 ([84 FR 3708](#))

Background: The Federal Clean Air Act (FCAA) requires states to submit plans that demonstrate progress in reducing emissions for areas that are not attaining the NAAQS within the state. On March 12, 2008, the United States Environmental Protection Agency (EPA) lowered the eight-hour ozone standard from 0.08 parts per million (ppm) to 0.075 ppm. On May 21, 2012, the eight-county Houston-Galveston-Brazoria (HGB) area, consisting of Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller Counties, was designated a nonattainment and classified as marginal for the 2008 eight-hour ozone NAAQS. The attainment date for the HGB marginal nonattainment area was established in the EPA's implementation rule for the 2008 ozone NAAQS published in the Federal Register (FR) on May 21, 2012 (77 FR 30160) and was set as December 31, 2015.

As a result of a December 23, 2014 ruling by the United States Court of Appeals for the District of Columbia Circuit and the EPA's final Implementation of the 2008 National Ambient Air Quality Standards for Ozone: State Implementation Plan Requirements; Final Rule (2008 ozone standard SIP requirements rule) published in the March 6, 2015 Federal Register (80 FR 12264) the attainment date for the HGB marginal nonattainment area changed to July 20, 2015. In addition, because the attainment year ozone season is the ozone season immediately preceding a nonattainment area's attainment date, the attainment year for the HGB marginal nonattainment area changed from 2015 to 2014.

The HGB area did not attain the 2008 eight-hour ozone standard in 2014 but qualified for a one-year attainment date extension in accordance with FCAA, §181(a)(5). The EPA published final approval of the one-year attainment date extension on May 4, 2016, which extended the HGB area's attainment date to July 20, 2016 with a 2015 attainment year (81 FR 26697). Because the HGB area's 2015 design value exceeded the 2008 eight-hour ozone NAAQS, the EPA published a final determination of nonattainment and reclassification of the HGB 2008 eight-hour ozone nonattainment area from marginal to moderate nonattainment on December 14, 2016 (81 FR 90207). The EPA set a January 1, 2017 deadline for the state to submit an attainment demonstration that addresses the 2008 eight-hour ozone NAAQS moderate nonattainment area requirements.



This HGB RFP SIP revision demonstrates a 15% emissions reduction in ozone precursors from the 2011 base year through the 2017 attainment year and a 3% reduction for contingency in 2018. This HGB RFP SIP revision also sets the NOX and VOC motor vehicle emissions budgets (MVEB) for transportation conformity purposes, for a 2017 attainment year.

Key Changes:

This SIP revision included:

- An RFP analysis for the 2017 attainment year;
- Updated 2011 base year emissions inventories for point, area, non-road mobile, and on-road mobile sources;
- An MVEB for the 2017 attainment year; and
- A contingency plan.

SIP Narrative and Appendices

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

HGB RFP SIP Revision (Non-Rule Project No. 2016-017-SIP-NR)

- **Adopted HGB RFP SIP Revision**
- Appendices
 - **Appendix 1: Reasonable Further Progress Demonstration Spreadsheet**
 - **Appendix 2: Development of Reasonable Further Progress Point Source Emissions Inventories for the Houston-Galveston-Brazoria (HGB) Nonattainment Area**
 - **Appendix 3: Growth Factors for Area and Point Sources**
 - **Appendix 4: Characterization of Oil and Gas Production Equipment and Develop a Methodology to Estimate Statewide Emissions**
 - **Appendix 5: Condensate Tank Oil and Gas Activities**
 - **Appendix 6: 2014 Statewide Drilling Rig Emissions Inventory with Updated Trends Inventories**
 - **Appendix 7: 2014 Texas Statewide Locomotive Emissions Inventory and 2008 through 2040 Trend Inventories**
 - **Appendix 8: 2014 Texas Statewide Commercial Marine Vessel Emissions Inventory and 2008 through 2040 Trend Inventories**
 - **Appendix 9: Aircraft Emissions Inventory for Texas Statewide 2014 AERR Inventory and 2008 through 2040 Trend Analysis Years**
 - **Appendix 10: Development of On-Road Emission Inventories for the Years 2011, 2017, and 2018**