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SIP Revision: Dallas-Fort Worth (DFW) and Houston-Galveston-Brazoria (HGB), 2008 Eight-Hour Ozone Severe Area Reasonable Further Progress (RFP), April 24, 2024

On April 24, 2024, the Texas Commission on Environmental Quality (TCEQ) adopted an RFP State Implementation Plan (SIP) revision for the DFW and HGB severe nonattainment areas under the 2008 Eight-Hour Ozone National Ambient Air Quality Standards (NAAQS).

Summary of the SIP Revision

Adoption Date: 04/24/2024

Proposal Date: 11/29/2023

EPA Approval Date: Pending

Background: The DFW 2008 ozone NAAQS nonattainment area, consisting of Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise Counties, along with the HGB 2008 ozone NAAQS nonattainment area, consisting of Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller Counties, were previously classified as serious nonattainment for the 2008 eight-hour ozone NAAQS of 0.075 parts per million (ppm) with a July 20, 2021, attainment date. Based on 2020 monitoring data, neither area attained the standard. On October 7, 2022, the U.S. Environmental Protection Agency (EPA) published a final notice reclassifying the DFW and HGB areas to severe nonattainment for the 2008 eight-hour ozone NAAQS, effective November 7, 2022 ([87 Federal Register \(FR\) 60926](#)).

Since the DFW and HGB areas have been reclassified by EPA, the area is now subject to the severe nonattainment area requirements in federal Clean Air Act (FCAA), §182(d), and TCEQ is required to submit severe classification attainment demonstration (AD) and RFP SIP revisions to EPA. The attainment date for severe areas is July 20, 2027 with a 2026 attainment year ([87 FR 60926](#)). EPA set a May 7, 2024, deadline for states to submit AD and RFP SIP revisions to address the 2008 eight-hour ozone standard severe nonattainment area requirements.

As a result of the reclassification, TCEQ is required to submit to EPA an RFP SIP revision consistent with FCAA requirements for areas classified as severe nonattainment for the 2008 eight-hour ozone NAAQS. The required AD SIP revisions were adopted in conjunction with this SIP revision (Project Nos. [2023-107-SIP-NR](#) and [2023-110-SIP-NR](#)).

Key Changes: The RFP SIP revision demonstrated that the DFW and HGB nonattainment areas would achieve emissions reductions in ozone precursors (volatile organic compounds (VOC) and/or nitrogen oxides (NO_x) consistent with the severe ozone nonattainment area requirements of FCAA, §182(d), the requirements of §182(c)(2)(B) to submit an RFP demonstration, and EPA's *Implementation of the 2008 National Ambient Air Quality Standards for Ozone: State Implementation Plan Requirements; Final Rule* (2008 eight-hour ozone standard SIP requirements rule) published on March 6, 2015, according to the following increments:



- an 18% emissions reduction for the six-year period from January 1, 2021 through December 31, 2026, for the 10-county DFW 2008 ozone NAAQS nonattainment area; and
- an 18% emissions reduction for the six-year period from January 1, 2021 through December 31, 2026, for the eight-county HGB 2008 ozone NAAQS nonattainment area.

In addition to demonstrating the required emissions reductions, this SIP revision also fulfilled the requirements of FCAA, §172(c)(9) to submit an RFP contingency plan in case of failure to demonstrate progress for a milestone (analysis) or attainment year, calculated as a 3% emissions reduction of the base year inventory, and established 2023 and 2026 NO_x and VOC motor vehicle emissions budgets (MVEB) for transportation conformity purposes, as detailed in Chapter 5: Motor Vehicle Emissions Budget. This SIP revision also addressed the FCAA requirement to demonstrate that increased emissions due to increased vehicle miles traveled (VMT) within the nonattainment areas are adequately offset.

SIP Narrative and Appendices

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

Adopted DFW and HGB Severe Areas RFP SIP Revision for the 2008 Eight-Hour Ozone NAAQS (Non-Rule Project No. 2023-108-SIP-NR)

- **Adopted DFW and HGB Severe Areas RFP SIP Revision for the 2008 Eight-Hour Ozone NAAQS**
- Adopted Appendices
 - **Appendix 1: DFW RFP Demonstration Spreadsheet**
 - **Appendix 2: HGB RFP Demonstration Spreadsheet**
 - **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: Industrial, Commercial, and Institutional (ICI) Fuel Use Study**
 - **Appendix 6: 2020 EPA Volatile Chemical Product (VCP) Nonpoint Emissions Methodology and Operator (NEMO) instructions (Draft Solvents NEMO)**
 - **Appendix 7: Development of the Non-road Model RFP Emissions Inventories for the HGB Eight-County and DFW 10-County Ozone Nonattainment Areas**
 - **Appendix 8: 2014 Statewide Drilling Rig Emissions Inventory with Updated Trends Inventories**
 - **Appendix 9: 2020 Texas CMV Emissions Inventory and 2011 through 2050 Trend Inventories**
 - **Appendix 10: 2020 Texas Statewide Locomotive and Rail Yard Emissions Inventory and 2011 through 2050 Trend Inventories**
 - **Appendix 11: 2020 Texas Statewide Airport Emissions Inventory and 2011 through 2050 Trend Inventories**
 - **Appendix 12: DFW Motor Vehicle Emissions Simulator 3 (MOVES3)-Based Reasonable Further Progress On-road Inventories and Control Strategy Reductions for 2011, 2023, and 2026**



- **Appendix 13: Updated 2026 On-road EIs with RFG in all 10 Counties for the Dallas-Fort Worth (DFW) 2008 Eight-Hour Ozone Reasonable Further Progress (RFP)**
- **Appendix 14: HGB 2008-Eight-Hour Ozone RFP On-Road Mobile Emissions Inventories**
- **Appendix 15: DFW and HGB 2008 Eight-Hour Ozone NAAQS Nonattainment Areas Vehicle Miles Traveled Growth Offset Demonstration for On-Road Mobile Sources**

Associated Rules

This SIP revision incorporated concurrently adopted revisions to rules in 30 Texas Administrative Code (TAC) Chapters 115 (Rule Project No. 2023-116-115-AI) and 117 (Rule Project No. 2023-117-117-AI). Rules in both chapters addressed major source RACT requirements for NO_x and VOC associated with reclassification of the DFW nonattainment area from serious to severe. In addition to RACT, rules in 30 TAC Chapter 115 also corrected inadvertent errors made in a previously adopted rulemaking that implemented EPA's 2016 *Control Techniques Guidelines for the Oil and Natural Gas Industry* ([Rule Project No. 2020-038-115-AI](#); [88 FR 55379](#)) and addressed SIP contingency measure requirements under the 2008 ozone NAAQS. Rules in 30 TAC Chapter 117 also addressed a rule petition for stationary diesel engines and associated emissions monitoring requirements.

30 TAC Chapter 115, Control of Air Pollution from Volatile Organic Compounds

- **[Rule Project No. 2023-116-115-AI \(Adopted\)](#)**

30 TAC Chapter 117, Control of Air Pollution from Nitrogen Compounds

- **[Rule Project No. 2023-117-117-AI \(Adopted\)](#)**