



SIP Revision: HGB Mid-Course Review of the One-Hour Ozone Attainment Demonstration, December 1, 2004

Revisions to the Attainment Demonstration State Implementation Plan (SIP) for the Houston-Galveston-Brazoria (HGB) nonattainment area for the one-hour ozone National Ambient Air Quality Standards.

Summary of the SIP Revision

Adoption Date: 12/1/2004

Proposal Date: 5/26/2004

EPA Approval Date: 9/6/2006 ([71 FR 52670](#)) 

Background: On December 1, 2004, the commission adopted revisions that included a mid-course review of the one-hour ozone attainment demonstration for the HGB area. The commission also adopted rule changes to 30 Texas Administrative Code (TAC) Chapters 101 and 115 and the repeal of the motor-vehicle idling limitations in the HGB area.

The EPA's approval was published in six parts: the rules for the control of highly reactive volatile organic compounds (HRVOC); the HRVOC Emissions Cap and Trade (HECT) Program; the Mass Emissions Cap and Trade (MECT) Program for nitrogen oxides (NO_x); the Emissions Credit Banking and Trading Program; the Discrete Emissions Credit Banking and Trading Program; and the one-hour ozone attainment demonstration.

Key Changes:

HGB SIP Revision: The SIP revision reflected a strategy based on reducing emissions of NO_x and point source HRVOC rather than reducing emissions primarily of NO_x. This revision contained results of photochemical modeling and technical documentation in support of the attainment demonstration. As a result of these analyses, the revision changed a number of control strategies related to NO_x and requirements for reducing HRVOC emissions.

HRVOC Control Measures: The SIP revision implemented measures to ensure compliance with the specific strategies to control HRVOC emissions. The amendments also corrected typographical errors and updated cross-references.

HRVOC Emissions Cap and Trade (HECT) Program: The HECT program is an annual cap and trade program to provide compliance flexibility to the Chapter 115 control requirements for process vents and cooling tower heat exchangers. Sites subject to the program are required to possess an HRVOC allowance for each ton of HRVOC emissions. Sites also have the option of trading excess HRVOC allowances on the open market within a specific trading zone.

General Fugitives: The rulemaking removed certain recordkeeping requirements from the general volatile organic compound fugitive emissions rules in Subchapter D, Division 3, and made the requirements applicable only to sources of HRVOC fugitive emissions in rule amendments that were revised as part of a concurrent rulemaking in 30 TAC Chapter 115, Subchapter H. The amendments also corrected typographical errors, updated cross-references, added flexibility, and achieved the intended emission reductions.

HGB Motor-Vehicle Idling Limitations: The commission repealed the motor-vehicle idling limitations in the HGB area in Chapter 114, Subchapter J, Division 1. The commission originally



adopted idling limitation rules on December 6, 2000, as a control strategy to reduce NO_x emissions in the HGB ozone nonattainment area by limiting the engine idling time of motor vehicles with a gross vehicle weight rating over 14,000 pounds to five consecutive minutes while the vehicle is operating in the affected area from April 1 to October 31 each year.

SIP Narrative and Appendices

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HGB Mid-Course Review SIP Revision (Project No. 2004-042-SIP-NR)

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Associated Rules

General Fugitives

- [Project No. 2004-052-115-AI](#)

HRVOC Emissions Cap and Trade (HECT)

- [Project No. 2004-037-115-AI](#)

Vehicle Idling

- [Project No. 2004-043-114-AI \(repealed\)](#)