

**SUMMARY OF WEIGHT OF EVIDENCE
PROPOSED HGB ATTAINMENT DEMONSTRATION SIP REVISION
FOR THE 1997 EIGHT-HOUR OZONE STANDARD**

QUALITATIVE CORROBORATIVE ANALYSIS

The qualitative corroborative analysis includes additional air quality improvement measures that cannot be included in the photochemical modeling analysis because they cannot be accurately quantified or are not permanent, surplus, or enforceable. These measures do, however, provide additional evidence to support the attainment demonstration.

- New International Marine Diesel Engine and Marine Fuel Standards for Oceangoing Vessels and Emissions Control Areas
 - The proposed new marine diesel engine and fuel standards will provide an 80 percent reduction in NO_x emissions, when compared to current standards. <http://www.epa.gov/otaq/oceanvessels.htm#emissioncontrol>
- SmartWay Transport Partnership and the Blue Skyways Collaborative
 - The SmartWay Transport Partnership is a voluntary EPA program for the freight transport industry that promotes strategies and technologies to help improve fleet efficiency while also reducing air emissions.
 - The Blue Skyways Collaborative's primary objective is to improve air quality in 10 states along the IH-35 corridor by promoting innovative technologies in a variety of sectors. In implementing the Blue Skyways Collaborative, the EPA and the participating states recognize that because air quality is often a regional concern, greater reductions are possible through cooperative efforts as opposed to individual efforts initiated independently in each state.
- Control of VOC Emissions from Flash Emissions
 - Rule amendments adopted in May 2007 resulted in actual reductions of flash emissions at upstream oil and gas exploration and production sites and other sources of tank emissions but reductions could not be quantified in the time frame for the proposal.
- Energy Efficiency and Renewable Energy Measures
 - Energy efficiency efforts are typically programs that reduce the amount of electricity and natural gas consumed by residential, commercial, industrial, and municipal energy consumers such as increasing insulation in homes, installing compact fluorescent light bulbs, and replacing motors and pumps with high efficiency units.
 - Renewable energy efforts include programs that generate energy from resources that are replenished or are otherwise not consumed as with traditional fuel-based energy production such as wind energy and solar energy projects.
- Clean Air Interstate Rule (CAIR)
 - Any future EPA revision to the CAIR program to comply with the December 23, 2008, United States Court of Appeals District of Columbia Circuit ruling may result in additional reductions.

- Low Income Vehicle Repair Assistance, Retrofit, and Accelerated Vehicle Retirement Program (LIRAP)
 - This program, known as AirCheckTexas Drive a Clean Machine (DACM), offers financial assistance and incentives for qualified vehicle owners to replace or repair vehicles that fail a state emissions test. In the HGB area, DACM is available to vehicle owners in Brazoria, Fort Bend, Galveston, Harris, and Montgomery Counties.
- Clean School Bus Program
 - This program was established to provide monetary incentives for school districts in the state for reducing emissions of diesel exhaust in school buses.
- Texas Emission Reduction Plan (TERP)
 - The TERP program has awarded over \$300 million to projects in the HGB area since 2001.
- American Waterways Operators Tank Barge Emissions Best Management Practices
 - Best Managements Practices include procedures to reduce VOC emissions from equipment and operations on tank barges. These may include a combination of inspection, corrective action, preventive maintenance, operational, procedural, and training practices.
- Local Initiative Projects
 - Local Initiation Projects provide funding to LIRAP-participating counties for implementation of air quality improvement strategies.
- Potential Local Programs submitted by the Houston-Galveston Area Council
 - The following programs are not committed Transportation Control Measures or Voluntary Mobile Emission Reduction Program measures, but may be implemented locally.
 - *Scrappage and Buy-Back Plan*
 - *Pay-As-You-Drive Insurance*
 - *Limitations on Idling of Heavy-Duty Vehicles; Creation of Regional Government Idling Restrictions*
 - *Encourage/Mandate Livable Centers*
 - *Enhanced Enforcement of Smoking Vehicles*
 - *Limitation on Idling of Heavy-Duty Construction Equipment*
- 81st Texas Session (2009) legislation that includes:
 - HB 432 requires state agencies that purchase passenger vehicles or other ground transportation vehicles to ensure that not less than 25% of new vehicles purchased during a biennium meet or exceed the EPA's Tier II, Bin 3 emission standards;
 - HB 1796 establishes a New Technology Implementation Grants program for facilities and stationary sources under TERP and extends TERP to 08/31/2019; and
 - SB 1759 establishes a Texas Clean Fleet Program that provides grants to encourage large fleets to replace diesel-powered fleet vehicles with hybrid vehicles or alternative fuel-powered vehicles.