



Texas Low Emission Diesel (TxLED) Program Revisions

Morris Brown
Technical Specialist, Air Quality Division

Presented to the TxLED Stakeholders Group
September 1, 2011



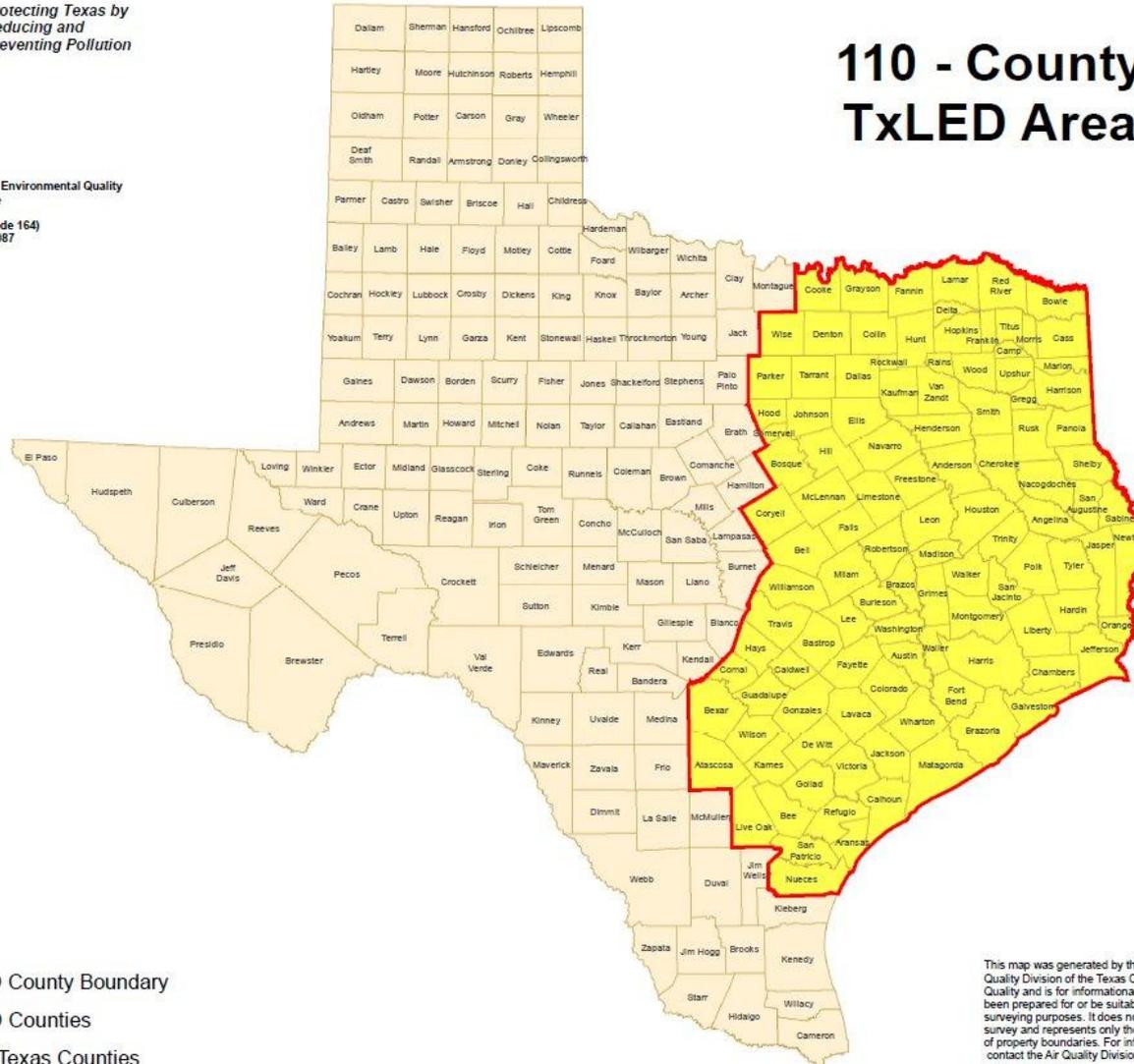
TxLED Map



Protecting Texas by
Reducing and
Preventing Pollution

Texas Commission on Environmental Quality
Chief Engineer's Office
Air Quality Division
PO Box 13087 (Mail Code 164)
Austin, Texas 78711-3087

110 - County TxLED Area



Legend

-  TxLED County Boundary
-  TxLED Counties
-  Other Texas Counties

This map was generated by the Chief Engineer's Office, Air Quality Division of the Texas Commission on Environmental Quality and is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. For information concerning this map, contact the Air Quality Division at (512) 239-1456.
February 22, 2011 Raj Nadkarni (512) 239-1934



Overview

- Background
- Issues Under Evaluation
- Timeline
- Informal Stakeholder Comments
 - Methods
 - Specifics
- Relevant Web Pages
- Contact Information



Background

- Reasons for the rulemaking
 - Reduced resources for test review and monitoring
 - Changes to diesel standards regarding biodiesel
 - Expired or outdated rule provisions
 - Underutilized compliance flexibility

- Goals of the rulemaking
 - Clarify requirements to facilitate rule compliance and enforcement
 - Minimize program impact on agency resources



Issues Under Evaluation

- TCEQ is seeking informal stakeholder comments on the following TxLED rule issues:
 - definitions, e.g., biodiesel and biodiesel blends;
 - B6 - B20 Biodiesel blend compliance with ASTM D7467 standards;
 - designated alternative limits for TxLED fuel properties;
 - registration and reporting;
 - alternative diesel fuel formulation approval procedures;
 - alternative emission reduction plans (AERP); and
 - any other TxLED issues that may need to be addressed during rulemaking.



Definitions

- Add new definitions for *biodiesel* and *biodiesel blends*.
- Remove definitions for *designated alternative limit* and *motor vehicle fuel*.
- Revise definitions of *bulk plant*, *further process*, *import*, *import facility*, *importer*, *produce*, *producer*, and *production facility* to replace the term "motor vehicle fuel" with the terms "gasoline" or "diesel fuel" as needed for clarity.
- Revise definitions of *additive*, *diesel fuel*, *final blend*, *further process*, *gasoline*, *low emission diesel*, *motor vehicle*, *non-road equipment*, *produce*, *producer*, *production facility*, and *retail dispensing outlet* as needed for clarity and consistency.



ASTM D7467 Compliance

- All currently approved alternative diesel fuel formulations require the B100 biodiesel blendstock to comply with ASTM D6751 (Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels).
- Require all new and currently approved alternative diesel fuel formulations comprised of biodiesel blends of up to 20% biodiesel by volume to also comply with the active version of ASTM D7467 (Standard Specification for Diesel Fuel Oil, Biodiesel Blend (B6 to B20)).



Designated Alternative Limits

- Specify new designated alternative limits for TxLED fuel properties as referenced under California diesel regulations in Title 13 California Code of Regulations (CCR) §2282(h)(1) to provide additional flexibility to the TxLED program while ensuring equivalent emission reductions.
 - Maximum aromatic hydrocarbon content of 21.0% by weight
 - Maximum polycyclic aromatic hydrocarbon content of 3.5% by weight
 - Minimum API gravity index of 36.9
 - Minimum cetane number of 53
 - Maximum nitrogen content of 500 part per million by weight (ppmw)
 - Maximum sulfur content of 15 ppmw



Registration and Reporting

– Registration

- Remove expired registration requirements that reference dates in 2005.
- Require all new producers and importers to register within 30 days of the date that they begin to provide TxLED to the affected counties.
- Require registration of each TxLED production facility and TxLED import facility.

– Reporting

- Require quarterly reports from each registered TxLED production/import facility.
- Allow additive sampling requirements to be satisfied by volumetric records.



Alternative Diesel Fuel Formulation Approval

- Current options for TCEQ approval of alternative diesel fuel formulations
 1. TCEQ approved testing procedures
 2. EPA Environmental Technology Verification (ETV)
 3. EPA Unified Model (not applicable for additives)
 - Remove option for TCEQ approved testing.
 - Grandfather all currently approved formulations.
 - All approved formulations subject to revocation if evidence shows the emissions performance does not achieve equivalent emission reductions.
- California Air Resources Board (CARB) approved formulations accepted.



Alternative Emission Reduction Plan (AERP)

- Remove expired early gasoline sulfur reduction credit provisions.
 - Unified Model option remains in place.

- Require AERPs using the Unified Model option to demonstrate that the average fuel properties of all diesel fuel produced in any given calendar quarter achieves the required nitrogen oxides (NO_x) reductions.
 - Quarterly reports would be used to validate compliance.



Other Issues

- Revise rule section citations and formatting as needed for clarity and consistency with other recommended revisions.



Timeline

- Anticipated timeline for this rulemaking:
 - Tentative rule proposal agenda: December 2011
 - Tentative public hearing in Austin: February 2012
 - Tentative rule adoption agenda: May 2012



Informal Comments: Methods

- Electronic comments are preferable, and may be submitted via e-mail to Morris.Brown@tceq.texas.gov.
 - All electronic comments should reference “Project Number 2009-001-114-EN” in the subject line.
- Mail comments to:
 - Morris Brown
 - TCEQ Air Quality Division, MC-206
 - P.O. Box 13087
 - Austin, TX 78711-3087
- Fax comments to (512) 239-6188.



Informal Comments: Specifics

- Accepting informal comments until **September 16, 2011**.
- Seeking detailed informal comments on the issues identified in this presentation.
- When submitting comments:
 - clearly identify any confidential information (non-confidential information will be posted on the TxLED Stakeholder Group Web page);
 - provide as much detail and technical information as possible, including information on associated cost; and
 - if referencing a specific document, please provide a copy, Web link, or citation for the information.



Relevant Web pages

- TxLED Stakeholders Group Web page
 - http://www.tceq.texas.gov/airquality/mobilesource/TxLED_Adv_Grp.html
- TxLED Program Web page
 - <http://www.tceq.texas.gov/airquality/mobilesource/cleandiesel.html>



Contact Information

- Morris Brown
 - (512) 239-1438
 - Morris.Brown@tceq.texas.gov