



E85 Fuel Ethanol Retail Issues

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California Department of Food and Agriculture Division of Measurement Standards

Integrated Energy Policy Report Workshop April 14, 2009



Division Mission Statement

Preserve and defend the measurement standards essential in providing the citizens a basis of value comparison and fair competition in the marketplace



Authority

Authority to regulate Weights and Measures and Fuel Products is found in Division 5 of the California Business and Professions Code





Alternative Fuels

CDFA Responsibilities

- Division of Measurement Standards (DMS) role in alternative fuel development
 - Ensure Measurement Traceability
 - ✓ Promote Uniform Requirements and Practices
 - Ensure Consumers Get What They Pay For
 - Level Playing Field in the Marketplace
 - Harmonize with International Standards



Commercial Measuring Device

A device used for ascertaining the measure of any commodity or thing which is sold on the basis of measure; or the determination of the measure of any commodity or thing upon which determination a charge for service is based.





Alternative Fuels

Division Responsibilities

- Type Evaluation
 - National and California Type Evaluation Program
- Device Accuracy
 - CA Device Compliance Program
- Fuel Quality, Advertising, Labeling, and Quantity
 - > CA Petroleum Products Program
- State / County Relationship



CA Petroleum Products Program

- National Standards Organizations Participation
 - Establish uniform standards to enhance consumer protection
 - Foster fair competition
 - Facilitate economic growth and trade



Standards Organizations

* ASTM International, Inc.



Society of Automotive Engineers



National Institute of Standards and Technology

National Institute of Standards and Technology

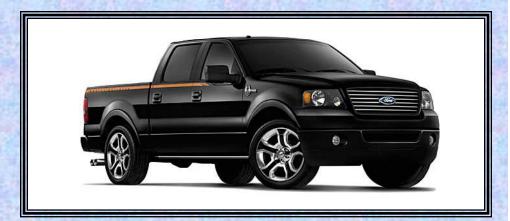














- E85 is a mixture of up to 85% denatured ethanol and gasoline or other hydrocarbon by volume (minimum content is 70%)
- Approximately 6.8 million flexible fuel vehicles (FFV) designed to run on blends up to 85% ethanol in U.S. today
- Fifteen service stations in California now offer E85 Fuel Ethanol to the public



- Energy Content
 - E85 has about 27% less energy than gasoline
- Cost per mile to consumers
 - Impacted by relative cost of ethanol and gasoline
 - Gasoline Gallon Equivalent (GGE)





- E-85 Dispensers are type approved by National Type Evaluation Program for commercial use but...
 - Not Underwriters Laboratories approved
 - State and Local Fire Marshals may grant use permits
- Not all State and County test standards (provers) are suitable for the corrosive nature of the fuel
 - > New test standards are necessary



- The Department does not currently have the equipment needed to test this product
- Any complaint samples must be tested by an independent laboratory
- The Division is going to have to prepare to test the quality of E85 fuel





- Marketplace cannot move to different concentrations of ethanol and gasoline mixtures without lawful standards
 - Developmental Fuels Variance Program
 - Assist with development of consensus standards
 - > Adopt standards as they are approved





E85 Labeling

- Labeling regulations are not consistent for E85
 - > Federal vs State
 - Product name E85 Fuel Ethanol vs. E85
 vs. FFV Fuel vs. Ethanol FFV
 - Fuel Rating % Ethanol vs. Octane
 - Consumer warnings vehicle fuel compatibility; possible Clean Air Act violations
 - > New laws have to be established







Contact Information

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