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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

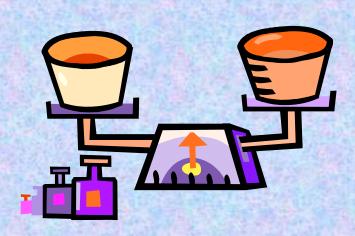
CDFA Responsibilities

- 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











- Established Fuel Standards
 - The Department must adopt recognized consensus organization standards for compression-ignition engine fuels
- Biodiesel Blend Standards
 - Current regulation Must meet ASTM Diesel
 Fuel Specification D975
 - ASTM recently modified D975 to limit biodiesel content to 5%



- New ASTM Standard (D7467-08) for Biodiesel Blends of 6 to 20 volume percent
 - CDFA in formal rulemaking to modify existing regulations
- B21 to B100 Biodiesel as a motor fuel
 - As a result of recent changes, these blends cannot be used as a legal finished fuel



Developmental Fuel Variance

- Current law allows for controlled sales and limited use of new fuels
 - Provides for fleet testing of new fuels for standards development
 - CDFA has granted 50 variances for this purpose
 - Additional legislation desired to facilitate record review (B&P Code 13570)



High Concentration Blends

- CA distributors and customers want higher blends of Biodiesel Fuel
 - Currently there is no consensus standard
 - CDFA plans to begin method development for these blends and present the work to ASTM
- ❖ Biodiesel and Biodiesel Blend Labeling
 - Federal and State dispenser labeling is inconsistent
 - CDFA plans to modify rules to be consistent with Federal requirements



Biodiesel Blending Practices

Blending Issues

- B99 rather than B100 being used for the production of lower concentration levels
- This pre-dilution practice is inconsistent with current regulations

(Section 4147(1))



- Can result in non-homogeneous blends
- Other techniques may be required to obtain consistent blend ratios



Biodiesel Dispenser Issues

- Fuel dispensers must be type approved for the product family they are dispensing
- Diesel dispensers are approved to dispense biodiesel blends up to 20 volume percent
- At this time, only 2 manufacturers have type approved commercial dispensers for high concentration biodiesel blends
- Other non weights and measures issues:
 - Not Underwriters Laboratories approved
 - State and Local Fire Marshals may grant use permits



Underground Storage Tanks (UST)

State Water Resources Control Board regulations require:

- Design and construction of UST and piping be approved by an independent testing laboratory
- System components made of or lined with materials compatible with hazardous materials to be stored
- Approved UST components must include a list of compatible products tested and their measured permeation rate

SB 1574 (2008 session)

- Would have allowed biodiesel blends up to B20 to be stored in UST on an interim basis
- Governor Schwarzenegger vetoed SB 1574
- Storage of alternative fuels needs to be addressed





Contact Information

Division of Measurement Standards 6790 Florin Perkins Road, Suite 100 Sacramento, CA 95828

Telephone: (916) 229-3000

Website: www.cdfa.ca.gov/dms