

**Item: NOTICE OF PUBLIC HEARING TO CONSIDER AMENDMENTS TO THE
FUELSPECIFICATIONS FOR M100 FUEL METHANOL**

Copies of the slide presentation which supported the Air Resources Board's oral staff presentation given by Ms. Annette Guerrero

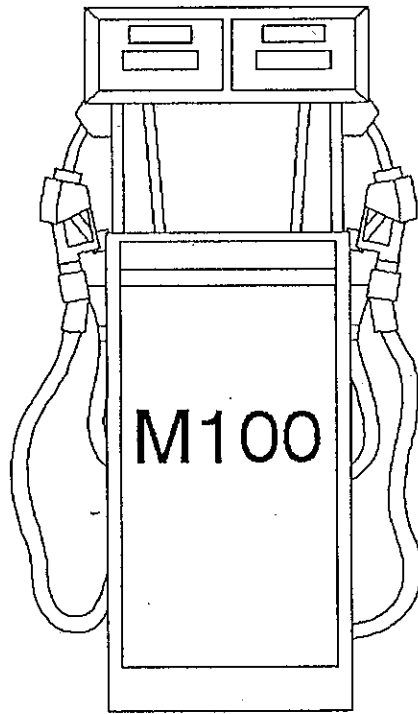
Attachments

Proposed Amendment to M100

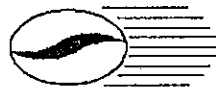
Fuel Specifications

Staff Presentation

December 8, 1994
Sacramento, California



California Environmental Protection Agency

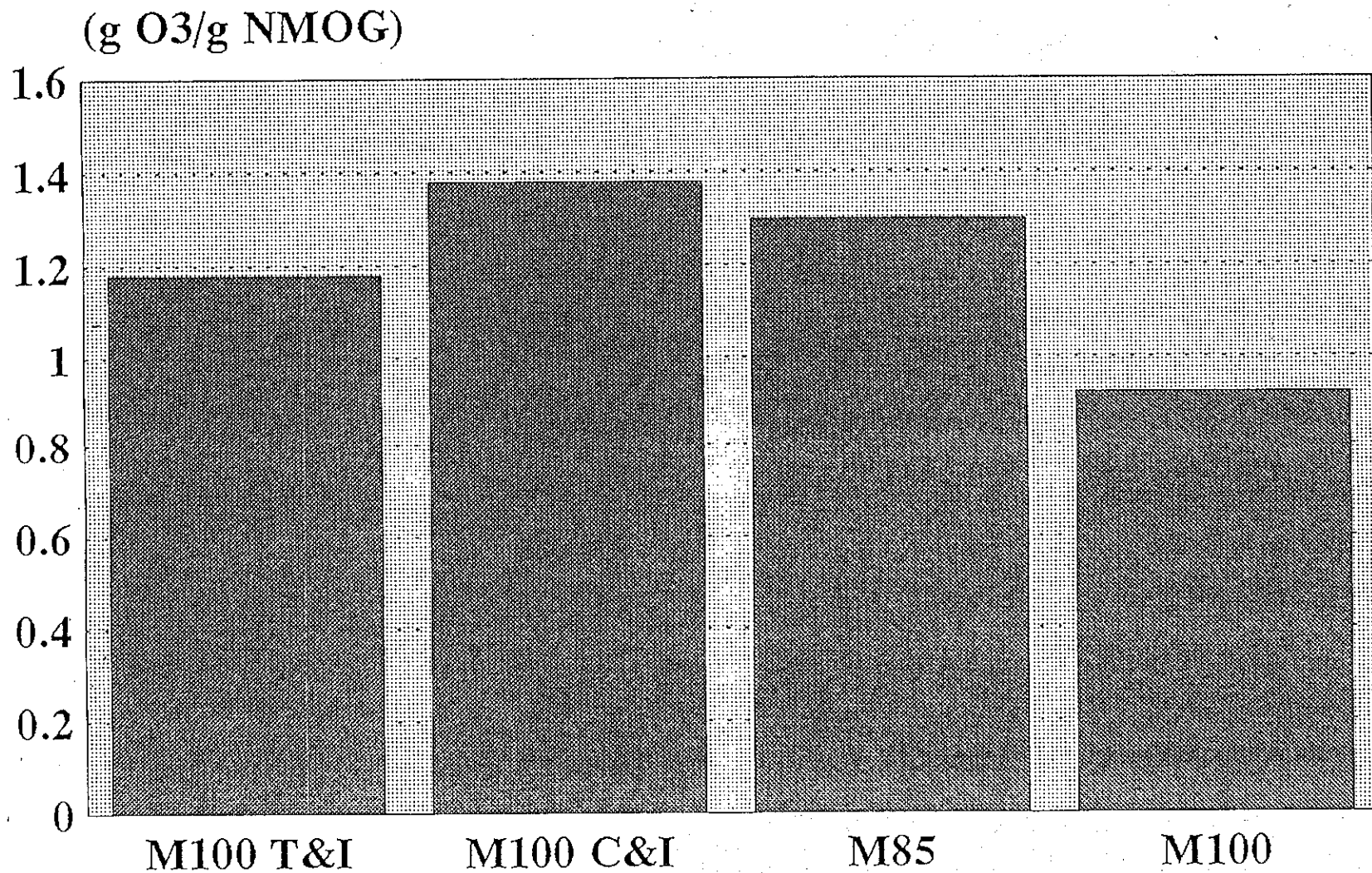


Air Resources Board

Background

- **Fuel specifications adopted March 12, 1992**
- **Allow M100 to be used as a motor vehicle fuel**
- **M100 burns without a readily visible flame which creates a safety hazard**
- **Original rulemaking contained luminosity requirement**

Emission Results Specific Reactivity



Additive Research

- Southwest Research conducted literature search to identify potential additives
- Two were selected:
 - 4% Toluene + 2% Indan
 - 5% Cyclopentene + 5% Indan
- Southwest Research conducted emissions testing on these additives

Conclusion

- **No additive is available which satisfies the current luminosity requirement without sacrificing emissions performance**

Alternative to Luminosity Requirement

- **Upholding luminosity requirement could end the use of M100 as a motor vehicle fuel**
- **Removing the requirement ignores potential safety concerns**
- **Need alternative which addresses both concerns**

Staff Proposal

- **Current regulations prohibit sale of non-complying fuel**
- **Proposed amendment would allow sale of non-complying M100 fuel to vehicles equipped with fire suppression equipment**

Fire Suppression Equipment

- **Automatic Fire Suppression**
 - sensor(s)
 - fire suppressant
 - activation system
- **On-board Luminosity Enhancement**
 - "bladder" in fuel tank
 - released in event of rupture or fire

Issues of Controversy

- **Significance of safety hazard is questionable because fuel is difficult to ignite**
- **Flame visible in all but maximum daylight conditions**

Staff Recommendation

- Amend regulations to allow persons to supply non-complying fuel to motor vehicles equipped with fire suppression equipment