

**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

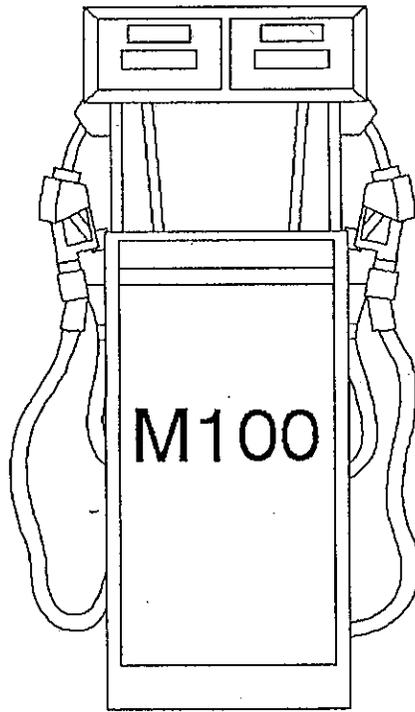
Attachments

# Proposed Amendment to M100

## Fuel Specifications

### Staff Presentation

December 8, 1994  
Sacramento, California



**California Environmental Protection Agency**

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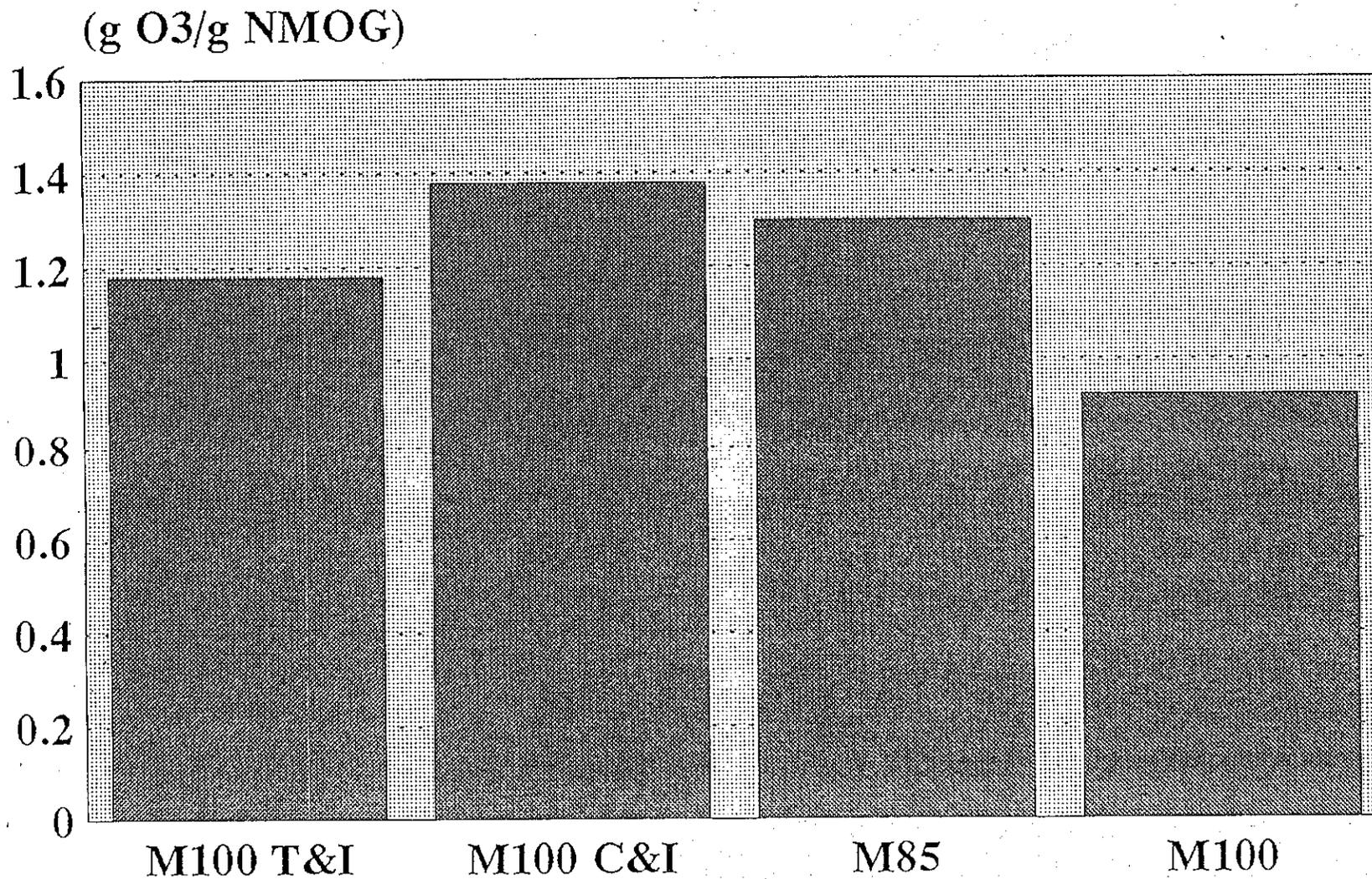
**Air Resources Board**

# Background

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- **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

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- 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

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

# Alternative to Luminosity Requirement

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- 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

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- **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

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- **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

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

# Staff Recommendation

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