

## WELCOME

### To the International Alternative Fuels Conference & Trade Show

## Certification / MEMO 1A

Presented jointly by the Office of  
Mobile Sources and the Office of  
Enforcement and Compliance  
Assurance of EPA.

Clifford Tyree / Richard Ackerman

## Introduction

- ◆ Review the Steps Necessary for Compliance with EPA rules and policy
- ◆ OMS is responsible for New Certification Rules
- ◆ OECA is responsible for Aftermarket Policy

## Agenda

- ◆ Review the Three Options in the Addendum to Memorandum 1A -- MEMO 1A
- ◆ Review Draft CFF Streamlining Rule

## Basis for Addendum 1A

- ◆ State approvals inadequate
- ◆ NREL Data demonstrates problems
- ◆ Stakeholders meeting 02-21-97
- ◆ NGVC/PVC meeting 6-18-97

## Overview

- ◆ Option 1 deals with OMS rules and policy
- ◆ Option 2 deals with California Cert process
- ◆ Option 3 deals with OECA / OMS rules and policy
- ◆ DRAFT CFF Streamlining deals with a future rule

## Part 85 Vocabulary

- ◆ Aftermarket Conversion System
- ◆ Aftermarket Conversion Installer
- ◆ Aftermarket Conversion Certifier
- ◆ Model Year

## Option 1

- ◆ Federal Cert -- Tier 0/1 (Part 86)
  - Standards, Same as MY
  - Both Fuels
- ◆ Federal Cert -- CFF (Part 88)
  - CF, LEV or Better
- ◆ Dual-Fuel
  - CF, LEV or Better
  - Conv. Fuel - TLEV including HCHO

## Option 1 Questions

- ◆ Now
- ◆ Later
  - Clifford Tyree
    - ◆ 313-668-6310

## Option 2

- ◆ CARB Executive Order (E.O.)
- ◆ CA Eng. Fam.-- Only in CA
- ◆ 50-State Eng. Fam. -- 50-State

## Options 2 Questions

- ◆ Now
- ◆ Later CARB
  - Rose Castro
  - 818-575-6800

## Option 3 (Interim)

- ◆ Demonstration Requirements
  - Each engine family
- ◆ Must not exceed original vehicle standards
  - Emission results x DF
  - Less than or equal to Standards

### Option 3- (Carry-Across)

- ◆ If results are LEV (No HCHO required)
- ◆ Displacement = or < than 0.8L
- ◆ Same Mfr, Catalyst, fuel system, ECS,
  - Three additional engine families

### Option 3- (HD Options)

- ◆ Engine dyno tests meet std's with DF
- ◆ Meet LDT std's up to 10K lbs.
- ◆ Chassis dyno test ok to 14K lbs.
- ◆ Would consider alt. procedures

### Option 3 Questions

- ◆ Now
- ◆ Later
  - Richard Ackerman
  - 202-564-2255

### CFF Draft Streamlining

- ◆ For Small-Volume Manufacturers
- ◆ For Small-Volume Engine Families
- ◆ IF CERTIFICATION LEVELS
  - LEV or Better

### CFF DRAFT Streamlining

- ◆ Modified definition of
  - Dedicated Fuel System
- ◆ Created New definition of
  - Engine Family Class
- ◆ Certification Fees Exempt MY2000

### Questions CFF Draft

- ◆ Now
- ◆ Later
  - Clifford Tyree
    - ◆ 313-668-4310

## Summary

- ◆ Described Basic Certification Protocol
- ◆ Described Basic Memorandum 1A Protocol
- ◆ Described Draft CFF Direct Final Rule

## Where to get more information

- ◆ CAA
  - ◆ <http://www.epa.gov/oar/caa/contents/html>
- ◆ OMS
  - <http://www.epa.gov/OMSWWW>
- ◆ What's New
  - ◆ <http://www.epa.gov/OMSWWW/whatsnew.htm>

## More Information

- ◆ CFF
  - ◆ <http://www.epa.gov/OMSWWW/cff.htm>
- ◆ Small-Volume MFR APP
  - ◆ <http://www.epa.gov/OMSWWW/gopher/Cert/Dearmfr/gasappx5.pdf>
- ◆ Federal Register
  - [www.access.gpo.gov/nara/index.html](http://www.access.gpo.gov/nara/index.html)

## More Information

- ◆ California Air Resources Board
  - <http://www.arb.ca.gov>
- ◆ U.S. Department of Energy
  - Office of Transportation Tech
    - ◆ <http://www.ott.doe.gov>
  - Alternative Fuels Data Center
    - ◆ <http://www.afdc.doe.gov>

## More Information

- ◆ A guidance document entitled, "A Guide to the Emissions Certification Procedures for Aftermarket Conversions" will be released soon. This document is a joint DOE / EPA document.