

Enhanced Vapor Recovery

July 8, 1999 Workshop

Monitoring and Laboratory Division
Compliance Division
Office of Legal Affairs
California Air Resources Board
California Environmental Protection Agency
www.arb.ca.gov/vapor/enhanced.htm

Agenda

- ★ June Board Item
- ★ Certification Changes
- ★ ORVR Compatibility
- ★ In-Station Diagnostics
- ★ EVR Schedule
- ★ ISD Presentations

June 24, 1999 Board Meeting

- ★ Amendments approved to:
 - ★ Phase II Certification (CP-201)
 - ★ Dynamic Backpressure (TP201.4)
 - ★ A/L Test (TP-201.5)
 - ★ Liquid Removal (TP-201.6)
- ★ 15-day Comment period soon

Certification of Stage II Systems

- ★ Change from Efficiency Standard to Emission Factors
- ★ Add additional emission points
- ★ Develop or modify measurement procedures for each emission point

Proposed Emission Factors

- ★ 0.42 lbs/1000 gal (95% efficiency)
 - ★ Transfer Emissions
 - ★ Vent Emissions
 - ★ Processor Emissions
 - ★ Fugitive Emissions
- ★ Spillage - 0.42 lbs/1000 gal
- ★ Liquid Retention - ??

Liquid Retention

- ★ Gasoline retained in
 - ★ product side of nozzle
 - ★ vapor passage of nozzle
 - ★ primary shut-off chamber of nozzle
 - ★ vapor passage of coaxial hose
- ★ Liquid can evaporate, if does not spill

New and Revised Methods

- ★ Amend TP-201.1, TP-201.1A
- ★ Amend TP-201.2
 - ★ vent sleeve
 - ★ fugitives
- ★ ORVR Compatibility
- ★ Liquid retention
- ★ Amend CP-201

Method Schedule

- ★ Drafts on web page by July 30
- ★ Comments by August 13
- ★ Revised Methods by August 31 Workshop

ORVR Compatibility

- ★ Draft test report on web page
- ★ Comments by July 22
- ★ Additional testing possible
- ★ ORVR Compatibility test procedure considered in December 99

In-Station Diagnostics

★ Goals:

★ Periodic monitoring to ensure

- vapors collected at nozzle
- vapors stay in underground storage tank

★ Signal when problem occurs

★ Draft language

★ need input to refine

Test Sites

- ★ ARB El Monte facility

 - ★ balance

- ★ Other test sites

EVR Implementation

- ★ Typical Regulation adoption
- ★ Timing Options

Typical Rulemaking Schedule

- ★ Board meeting: December 1999
- ★ 15-day changes
- ★ Package due to OAL 1 year from notice date (October 22, 2000)
- ★ OAL review: 30 working days
- ★ Legally effective 30 days after OAL approval (December 2000)

Upon Effective Date...

- ★ 4-year clock starts
- ★ Systems remain certified for six

After six months:

- ★ requirements
- ★ existing stations must have

Timing Options

- ★ Set future effective date
- ★ Amend CP-201 to extend six month period
- ★ Phase in EVR requirements
 - ★ ORVR and Certification changes first
 - ★ ISD later

December 1999 Board Meeting Schedule

★ Workshops:

★ Tuesday, August 31, 1999

★ Friday, October 22, 1999 ?

★ Staff report: October 22

(Start of 45-day comment period)

★ Board hearing December 9

In Station Diagnostics

