Agenda

- Vapor Recovery Program Background
- Progress Towards Meeting April 2009 EVR Phase II Deadline
- Actions to Facilitate EVR Implementation
VAPOR RECOVERY PROGRAM

PHASE I AND PHASE II VAPOR RECOVERY SYSTEMS

PHASE I VAPOR RECOVERY
- FUEL TO TANK
- VAPORS TO TRUCK

PHASE II VAPOR RECOVERY
- VAPORS TO TANK
- FUEL TO CAR
- FUEL TO CAR
Two Phase II System Types

Balance

Vapor Pump

Assist
Onboard Refueling Vapor Recovery or “ORVR”

Initiated in 1998 MY
Required for almost all passenger, light duty and medium duty vehicles by 2006 MY
ORVR Penetration (VMT) (2008)
EVR Improvements

- More stringent certification requirements
- “Dripless” nozzles – less spillage
- Control of fugitive emissions
- Compatible with vapor recovery systems on newer vehicles (ORVR)
- Vapor recovery system monitor (In-station diagnostics or “ISD”)
## Vapor Recovery Emission Reductions

<table>
<thead>
<tr>
<th>Period</th>
<th>Controls</th>
<th>2010 ROG Em Red (tons/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1970s - 2000</td>
<td>Pre-EVR Systems and ORVR vehicles</td>
<td>347</td>
</tr>
<tr>
<td>2000</td>
<td>EVR Amendments*</td>
<td>25</td>
</tr>
<tr>
<td>2001-2010</td>
<td>EVR Phase I and Phase II and ISD</td>
<td>25</td>
</tr>
<tr>
<td>Post 2010</td>
<td>EVR Systems and ORVR Vehicles</td>
<td>372</td>
</tr>
</tbody>
</table>

* Required as Part of the 1999 Settlement of a SIP Lawsuit
History of EVR Upgrades

**COMPLETED**

March 2000 – EVR Program Approved

April 2005 – Phase I Deadline

March 2006 – ORVR Compatibility Deadline

**PENDING**

April 2009 – EVR Phase II Deadline

Sept 2009 – In-Station Diagnostics Deadlines

Sept 2010
ORVR/EVR Upgrade Options

• ORVR Compatibility deadline was extended to allow service stations to upgrade once to EVR Phase II system
• Most sites with non-ORVR compatible assist systems chose to go balance
• Approximately 90% of stations were pre-EVR balance after the ORVR compatibility upgrade
### Number of Stations Subject to Phase II EVR Upgrade by April 2009

<table>
<thead>
<tr>
<th>Air District</th>
<th>Number of Stations</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Coast</td>
<td>4500</td>
<td>39%</td>
</tr>
<tr>
<td>Bay Area</td>
<td>2078</td>
<td>18%</td>
</tr>
<tr>
<td>San Joaquin</td>
<td>1828</td>
<td>16%</td>
</tr>
<tr>
<td>San Diego</td>
<td>843</td>
<td>7%</td>
</tr>
<tr>
<td>8 districts</td>
<td>100 to 400</td>
<td>15%</td>
</tr>
<tr>
<td>18 districts</td>
<td>&lt; 100</td>
<td>5%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>11,678</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>
EVR Phase II Implementation in SCAQMD

38% Permitted
11% Installed
(as of May-08)
Phase II Equipment Availability

- Over 2000 systems in stock at manufacturers or local distributors
- Equipment now shipped by manufacturers within one week of order
- Current inventory and production rates will provide sufficient equipment over the next 9 months
### Contractor Availability

<table>
<thead>
<tr>
<th>Number of Certified Contractors (individuals)</th>
<th>Franklin/Healy (Phase II – assist)</th>
<th>VST (Phase II - balance)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>1371</strong></td>
<td><strong>143</strong></td>
</tr>
</tbody>
</table>
Projected EVR Phase II Implementation in SCAQMD

11% Installed (as of May-08) Projected
Other Factors Affecting Timely Implementation

• Waiting for additional EVR systems
  – Not until 4th quarter 2008 – at earliest
• Thinking there is still plenty of time
  – Permitting takes longer than expected
• Thinking the deadline will be extended
  – Equipment and contractors are available
Early Permit Requirements

• Sacramento Metro AQMD
  – waived fee if applied by April 1 2008 and installed EVR Phase II by Oct 1 2008

• San Diego APCD
  – Permit applications due October 1, 2008

• South Coast AQMD
  – Compliance plan due October 1, 2008
Permitting

- Local permit agencies include:
  - Air pollution control district
  - Fire
  - Environmental Health (CUPA)
  - Building
  - Planning

- Most of these agencies not involved in Phase I or ORVR compatibility upgrades
EVR Outreach

- Workshops and informational meetings hosted by ARB staff, air districts, CUPAs and equipment distributors
- EVR advisories and email listserve
- EVR color brochure
- Focus on outreach to planning agencies
- “evrhome” webpage
Staff Report: Actions Planned Regarding EVR Implementation

- Expand outreach to local planning agencies
- Continue monitoring EVR implementation progress
- Share EVR implementation status with stakeholders
- EVR status report to Board in October
Comments from May 14th Meeting and ARB Response

• **Cost is financial hardship – stations will close**
Response: Outreach will include information on leasing and financing options, including RUST grant and loan program

• **Not likely that all stations can complete upgrade in time**
Response: Resources available now. If necessary, districts have mechanisms to allow operation after deadline with penalties if good cause
Comments from May 14th Meeting and ARB Response (cont)

- **EVR Phase II balance system with ISD certified only one year before deadline**
  
  Response: Both EVR Phase II systems can be used at sites with pre-EVR balance systems

- **Staff report ignores issues associated with EVR Phase II and ISD roll-out**
  
  Response: Staff developing ways to identify roll-out issues and resolve them
Future Status Reports

Second staff report document on EVR progress to Board in October 2008
Summary

• EVR program approved in 2000
• EVR Phase II systems available since 2005
• Over 1000 certified contractors available to conduct installations
• Equipment is in stock
• Enough time remains to meet deadline