CONTROL MEASURES

August 12 and 13, 2004

George A. Heinen, P.E.
Supervisor, Rule Development
george.heinen@valleyair.org
Integrated Solution to Air Pollution

- Stationary Source measures
- Local clean fleet programs
- *Smart Growth* land-use and transportation policies
- Regional coordination of land use and transportation
SJVAPCD Contribution

Regulatory authority

- Stationary Sources

Types of Measures

- Regulatory
- Incentive programs
- Voluntary programs
Control Measure Process

Attainment Plan Input
- Ozone ROP and PM Plans Reviewed
- Emissions Inventory Examined
- Control Measures Identified

Rule Development Process
- Requirements/Standards Developed
- Cost Effectiveness
- Socio-Economic Analysis
- Compliance Schedule
**Table 4-1 : 2004 - 2007 Control Measure Schedule**

Currently being developed or scheduled for development.

- Categories with identifiable Emission Inventories and Control Options
- Rules resulting from new legislation.
Table 4-1: 2004 - 2007 Control Measure Schedule

- Oil & Gas Fugitives
- School Bus Fleets
- Indirect Sources
- Wineries
- Small Boilers
- Stationary Engines
- Composting
- Solvents

- Water Heaters
- Oil Vents
- Soil Decontamination
- Open Burning
- Foam Manufacturing
- Turbines
- Gasoline Transfers
- Aviation Fueling
Table 4-2: Further Study

Potential measures requiring future study.

- Examining Emission Inventories and/or Feasible Control Options
- Measures may be dropped or new projects added in plan updates.
<table>
<thead>
<tr>
<th>Portable Equipment</th>
<th>Cutback Asphalt Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt Dryers</td>
<td>Under-fired Charbroilers</td>
</tr>
<tr>
<td>Sumps, Pits &amp; Waste Water Processing</td>
<td>Residential Water Heaters</td>
</tr>
<tr>
<td>Heavy Oil Fugitives</td>
<td>Furnaces</td>
</tr>
<tr>
<td>Adhesives</td>
<td>Brandy Production</td>
</tr>
<tr>
<td>Graphic Arts Materials</td>
<td></td>
</tr>
</tbody>
</table>
Incentive Programs

- Heavy- and Light-Duty Engines
- Electric Lawn Mower
- Mobile Source Emission Reduction Incentive Program
  - E-Mobility
  - Bicycle Infrastructure
  - Vanpool Subsidies
TPA RACM Process

• 8 TPAs and 67 member agencies
  • Model Resolution Package
  • Strengthen existing RACM commitments (Severe Area Ozone Plan)
• Each jurisdiction determines which measures are feasible for implementation
TPA RACM Process, Cont.

- Adopted resolutions in February 2004
  - Commitments for measures to be implemented
  - Reasoned justification for non-implementation
- Submitted Commitment Documents in May 2004
TPA RACM Process, Cont.

- Overview of process presented at July 2003 workshop
- Status of process presented at January 2004 workshops
- RACM Website
  - http://www.fresnocog.org
What are existing State and federal regulations achieving between 1999-2010?

- State and federal controls are cutting emissions from 1999 to 2010, despite growth
  - ↓ VOC over 90 TPD (>45% reduction)
  - ↓ NOx over 140 TPD (>35% reduction)
- Next increment of reductions by 2010 depends on cleaning up existing fleet
Statewide Strategy

- In October 2003, ARB adopted a Statewide Strategy with over 20 new measures to reduce ROG, NOx and PM10
- For the Valley Ozone Plan, State measures will provide emission reductions of 15 tpd ROG and 20 tpd NOx in 2010
- Measures will be adopted through 2009
- [http://www.arb.ca.gov/planning/sip/stfed03/stfed03.htm](http://www.arb.ca.gov/planning/sip/stfed03/stfed03.htm)