2016 Air Quality Management Plan

Elaine Chang, DrPH
Deputy Executive Officer
South Coast Air Quality Management District

Joint Energy, Water & Environmental Sustainability and Transportation & Goods Movement Councils
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Cleaning The Air That We Breathe...
2016 AQMP

Attainment Demonstration

- 2008 8-hour ozone (75 ppb) SIP submittal July 2016 (attain by 2032)
- 2012 annual PM2.5 standard (12 µg/m³) SIP submittal 2016 (attain by 2020-2025)

Additional Analysis

- Update to previous 1997 8-hour ozone (80 ppb) SIP (reductions by 2023)
- Update to 1-hour ozone SIP (reductions by 2022)
South Coast Air Basin Ozone Trend

Days Exceeding Federal Ozone Standard (0.075 ppm)

Maximum 8-Hour Ozone Concentration (ppm)

Federal Standard
OZONE – 2013
Number of Days Exceeding the Federal Standard
(8-hour average > 0.075 ppm)
# NOx Emission Reduction Estimates for Ozone Attainment

<table>
<thead>
<tr>
<th>8-hour Ozone Standard</th>
<th>Federal Standard Level (ppb)</th>
<th>Attainment Year</th>
<th>Estimated Carrying Capacity (tpd)</th>
<th>Percent Reduction of NOx Emissions from 2023 Baseline</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997</td>
<td>80</td>
<td>2023</td>
<td>115</td>
<td>65</td>
</tr>
<tr>
<td>2008</td>
<td>75</td>
<td>2032</td>
<td>80</td>
<td>75</td>
</tr>
</tbody>
</table>
NOx Reductions Needed Beyond Adopted Standards

- HD Diesel Trucks
- Offroad Equipment
- Ships & Commercial Boats
- RECLAIM
- Locomotives
- Aircraft
- Residential Fuel Combustion
- Heavy-Duty Gasoline Trucks
- Passenger Cars
- Med. Duty Gasoline Vehicles
- Light Duty Trucks & SUVs
- Manufacturing & Industrial
- Service & Commercial
- Other

Needed by 2023

Needed by 2032
Annual PM2.5 Air Quality Trend

PM2.5 Concentration, µg/m³

PM2.5 Annual Standard

Year
PM2.5 – 2013
Annual Arithmetic Mean, μg/m³

Typical Transport

0 - 12   OVER 12.0 μg/m³
 AQMP Timeline

**Statute Timeframe (July 20)**
- Base Yr Emission Inventory, RACT/RACM Submittal
- RFP (15% VOC reduction) (75 ppb) Submittal
- Policy Discussion Papers
- Early Action Measures (1-hr O3, 80 ppb)
- Updated Inventory Projections
- Attainment Demo/RFP (additional 3% VOC reduction) (75 ppb) Submittal
- CEQA Program EIR
- Socioeconomic Assessment

**2016 RTP/SCS (SCAG)**
- Complete Growth Forecast
- Draft RTP/Approval

**2013**
- 3rd Qtr: Emission Inventories/Statement, RACT

**2014**
- 1st Qtr: RFP
- 2nd Qtr: Policy Papers
- 3rd Qtr: Early Action

**2015**
- 1st Qtr: Inventory
- 2nd Qtr: Initial Plan
- 3rd Qtr: CEQA PEIR
- 4th Qtr: Draft Socio

**2016**
- 1st Qtr: Draft RTP
- 2nd Qtr: RTP Approval
- 3rd Qtr: Implementation Discussion
- Growth Forecast
2016 AQMP Advisory Group

• SCAQMD Governing Board approved 56 members
   Community/environmental groups (9): Air, Health, EJ
   Academia (2): Public Health, Policy, Sustainable Communities
• Meet quarterly in 2014; more frequently in 2015 and 2016
- Explore technical and policy issues
- Integration of air quality, climate, energy, transportation, business
- Advisory Group members, technical experts participate in working groups for each of nine topics
- White Paper Working Group meetings
  - Initiated early Summer 2014
  - Open to public participation
  - Times and presentations posted online
- Papers to be completed 1st quarter 2015
Related Planning Activities

- AB32 Scoping Plan (*May 2014*)
- CARB’s Sustainable Freight Strategy (*Spring 2015*)
- SCAG’s 2016 RTP/SCS (*Fall 2015*)
Key Policy Issues

- Integrated approach to select the most efficient path to achieve multi-pollutant and multi-deadline targets
  - Avoid stranded assets
  - Technology/fuel neutral
  - Coordinated investments
  - Business case
- Goods movement
- ISR measures
- Socioeconomic impacts
Outreach Effort

- Periodic AQMP Advisory Group
- White Paper working groups
- Control strategy development symposium
- Focus groups
- Community/Environmental Justice Outreach
- Legally required regional workshops