

Ozone SIP Development Status



April 3, 2008



LET'S TAKE CARE OF OUR SUMMER AIR.

OzoneAware.org

Planning Goals



- **Meet 1997 Ozone Standard (effectively 0.084 ppm) by 2010**
 - per Federal requirements
- **Reduce or eliminate ozone values above 0.080 ppm**
 - per Governor Ritter's directive
- **Begin laying the groundwork to prepare a plan to meet the new Ozone Standard (0.075 ppm)**
 - per Governor Ritter's directive

SIP Development Overview



- **Dispersion Modeling**

- ❖ Emission inventories
- ❖ Meteorological modeling
- ❖ 2006/2010 Base Case modeling
- ❖ 2010 sensitivity/source attribution modeling
- ❖ 2010 control plan modeling
- ❖ 2020 base case and sensitivity modeling

- **Strategy analysis**

- ❖ Mobile Sources/Fuels
- ❖ VOC Stationary Sources
- ❖ Oil & Gas Sources
- ❖ Transportation Measures
- ❖ NOx Sources
- ❖ Commercial/Consumer Products

Dispersion Modeling



- **March 4th Stakeholder meeting**
 - Meteorological modeling
 - Preliminary model evaluation and diagnostic testing for June-July 2006 episode
- **Next steps**
 - March – 2006/2010 base case emission inventories
 - April – 2006/2010 base case dispersion modeling
 - May – 2010 source apportionment modeling
 - June – 2010 sensitivity modeling
 - August – 2010 control plan modeling
 - September – 2020 base case modeling

Mobile Sources/Fuels



- **Tighter I/M cutpoints**
 - ❖ Proposed in December, adopted by AQCC in March
- **High-emitter program**
 - ❖ HB1302 pilot program underway
 - ❖ Vehicle scrappage program (\$250,000 secured)
 - ❖ Working on a voluntary program in North Front Range
 - ❖ Evaluating tightening collector plate requirements
- **Fuels strategies**
 - ❖ Lower RVP (7.0 psi) gasoline
 - ❖ Reformulated gasoline
 - ❖ Eliminating ethanol waiver
 - ❖ CO Petroleum Association has commissioned a cost/supply impact study – due by the end of April
- **Expanding I/M program to North Front Range**

VOC Stationary Sources



- **Stakeholder meeting held March 5th**
- **APCD has prepared series of issue papers**
 - Stationary source emission inventories
 - Control Technique Guidelines issued by EPA
 - Regulation No. 3 VOC RACT for new/modified sources applies in entire NA area (*Adopted in February*)
 - Expand Regulation No. 7 to apply to entire NA area
 - Increase applicability of RACT/BACT requirements for minor sources
 - Reconsider current source exemptions in Regulations No. 3 & 7
 - Additional controls for largest sources
 - Stage II Vapor Recovery at gasoline stations
- **Next stakeholder meeting on April 10th**

Oil and Gas Sources



- **Stakeholder meeting held February 26th**
- **WRAP-sponsored IPAMS emission inventory provided updated and refined emission estimates**
- **APCD prepared issue papers on range of potential strategies**
- **Narrowing focus to major sources of emissions, principally condensate tanks and pneumatic valves**
- **Next stakeholder meeting on April 10th**

Other Sources



- **NOx sources**

- Relying on Regional Haze stakeholder process for analysis of NOx control options
- Awaiting photochemical modeling sensitivity results to determine impact of NOx emission reductions on Front Range ozone

- **Commercial/consumer products**

- Relying on new EPA national rule that is effective Jan. 2009
 - ❖ Aerosol coatings
 - ❖ Architectural and industrial maintenance coatings
 - ❖ Household and institutional consumer products
- Creditable emissions reduction of about 30% from this rule

Other Sources



- **Transportation sources**
 - Stakeholder meeting held March 19th
 - Consensus was that a mandatory employer-based travel reduction program was not feasible or supported as a SIP strategy at this time
 - Considerable interest in developing a pilot program/study to gauge the effectiveness of employer-based programs and to overcome barriers to implementation
 - Work to expand incentives and support for current network of voluntary employer and area travel reduction programs

Next Steps



- April 2006/2010 base case modeling
- June 2010 sensitivity modeling
- April Initial strategy analyses complete
- May-August RAQC considers modeling and strategy analyses
- June Meet with NFRMPO
- June-August RAQC/APCD draft regulations
- September RAQC/APCD proposes draft plan and regulations to AQCC
- Oct.-Dec. AQCC prehearing process
- December AQCC hearing and SIP/regulation adoption
- January-May Legislative review
- July 1, 2009 Deadline to submit plan to EPA

RAQC Meeting Schedule



- **May 1 – regular meeting**
 - **May 21 (W) – additional meeting**
- **June 5 – regular meeting**
 - **June 18 (W) – additional meeting**
 - ❖ Possible meeting with NFRMPO (?)
- **July 3 – regular meeting – cancel (?)**
 - **July 10 (Th) – additional meeting**
 - **July 24 (Th) – additional meeting**
- **August 7 – regular meeting**
 - **August 20 (W) – additional meeting**
 - ❖ Possible meeting with NFRMPO (?)
- **Sept. 4 – regular meeting – approve proposed SIP**