Draft 2008 Ozone Redesignation Request and Maintenance Plan

Stacy Allen,
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• Redesignation Request
  – Ask EPA for this finding

• Maintenance Plan
  – Show how Missouri will continue to meet the 2008 ozone standard
Timeline

• June 20\textsuperscript{th} - IACG comment period on conformity budget started
• June 27\textsuperscript{th} - Public comment on SIP document
• July 28\textsuperscript{th} - Public hearing at MACC (Jefferson City)
• Aug 4\textsuperscript{th} - Comments due COB
• Aug 25\textsuperscript{th} - Proposing MACC adopt at meeting (St. Louis regional office)
http://dnr.mo.gov/env/apcp/stateplanrevisions.htm
Document Contents:

- Monitoring
- Emission Inventory
- Legal authority, public participation, other SIP pieces
- Transportation conformity budgets
- Contingency Measures
Transportation Conformity Budget

- A number that will show the area continues to meet air quality goal of declining emissions from base year (2014) to future year (2030)
Transportation Conformity Budget

Calculating the Transportation Conformity budget:

• Estimate 2014 emissions, all categories, all MO counties
• Estimate 2030 emissions, all categories, all MO counties
• Subtract 2014 from 2030 to see how much emissions decline (aka: Safety margin)
• Choose an amount of the safety margin to apply to future year onroad (ex: 20%, 50%, 80%)
• Add in the chosen amount of the safety margin to the future year onroad emissions to get the transportation conformity budget
Transportation Conformity Budget

<table>
<thead>
<tr>
<th>Emissions in tons per ozone season day, MO counties only</th>
<th>2014 Emissions</th>
<th>2030 Emissions</th>
<th>Safety Margin</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>296.69</td>
<td>161.58</td>
<td>135.11</td>
</tr>
<tr>
<td>VOC</td>
<td>209.49</td>
<td>131.55</td>
<td>77.94</td>
</tr>
</tbody>
</table>

- Safety margin is reduced by a small amount due to banked emissions that may return in the future year (less than 3 tons)
80% of safety margin chosen to apply to onroad emissions

<table>
<thead>
<tr>
<th>Emissions in tons per ozone season day, MO counties only</th>
<th>2030 Onroad Emissions</th>
<th>80% of Safety Margin</th>
<th>Transportation Conformity Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>25.57</td>
<td>[(135.11 - 0.01 (bank) * 0.80] = 108.08</td>
<td>(25.57 + 108.08) = 133.65</td>
</tr>
<tr>
<td>VOC</td>
<td>18.42</td>
<td>[(77.94 – 2.85 (bank) * 0.80] = 60.07</td>
<td>(18.42 + 60.07) = 78.49</td>
</tr>
</tbody>
</table>
Transportation Conformity Budget

Based on IACG May discussion:

• VMT Growth: 1.7% per year
• Vehicle Population Growth: FHWA method
• Vehicle Age Distribution: holding constant

These budgets, should St. Louis transportation projects need to use all of these emissions in 2030, would still ensure a total emissions picture that is below 2014 emissions, the attainment year of the plan.
Division of Environmental Quality Director: Leanne Tippett Mosby

Date: June 28, 2016

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