2018 Transportation Air Quality Conformity

Public Meetings
May 2018

North Central Texas Council of Governments
Optimum conditions for the formation of ozone include high temperatures and low winds.
2018 Transportation Air Quality Conformity Analysis

Purpose

Demonstrates that projected emissions from transportation projects are within emission limits (Motor Vehicle Emissions Budgets) established by the State Implementation Plan (SIP)

Ensures federal funding and approval is applied to transportation projects that are consistent with air quality planning goals
2018 Transportation Air Quality Conformity Analysis

9 and 10 County Nonattainment Areas Under the 8-Hour Ozone Standards
2018 Transportation Air Quality Conformity Analysis

Reason

Test Against Motor Vehicle Emission Budgets (MVEBs)

• MVEBs Adequacy for Transportation Conformity Purposes Effective November 23, 2016
  • $NO_x = 130.77$ tons/day
  • $VOC = 64.91$ tons/day
  • Contained in *Dallas-Fort Worth 2008 Eight-Hour Ozone Nonattainment Area Attainment Demonstration State Implementation Plan Revision for the 2017 Attainment Year*
  • Requirement: Transportation Conformity Determination Using New Budgets within Two Years of MVEBs Adequacy *(Deadline November 23, 2018)*

2015 Ozone Designations

• Requirement: Conformity Determination within One Year of Designations Effective Date *(Anticipated Deadline of July-August 2019)*
Highlights

Planning Assumptions:
• Emissions Model is EPA’s MOVES2014a
• 2014 Vehicle Registration
• 2016 Traffic Count Data
• 2012 Meteorological Data

Analysis Years: 2018
  2020
  2028
  2037
  2045
2018 Transportation Air Quality Conformity: Analysis

Emissions of NO\textsubscript{X} Results for 2008 and 2015 Nonattainment Areas

- Includes Reductions from RTC Initiatives of 2.12 tons/day
- 2017 MVEB = 130.77 tons/day

Emissions (tons/day)

<table>
<thead>
<tr>
<th>Analysis Years</th>
<th>Emissions (tons/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>111.12</td>
</tr>
<tr>
<td>2020</td>
<td>93.14</td>
</tr>
<tr>
<td>2028</td>
<td>56.09</td>
</tr>
<tr>
<td>2037</td>
<td>43.69</td>
</tr>
<tr>
<td>2045</td>
<td>45.04</td>
</tr>
</tbody>
</table>

= Rockwall County Emissions
Emissions of VOC Results for 2008 and 2015 Nonattainment Areas

- Includes Reductions from RTC Initiatives of 0.56 tons/day
- 2017 MVEB\(^1\) = 64.91 tons/day

<table>
<thead>
<tr>
<th>Analysis Years</th>
<th>Emissions (tons/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>58.85</td>
</tr>
<tr>
<td>2020</td>
<td>53.39</td>
</tr>
<tr>
<td>2028</td>
<td>37.88</td>
</tr>
<tr>
<td>2037</td>
<td>26.83</td>
</tr>
<tr>
<td>2045</td>
<td>26.25</td>
</tr>
</tbody>
</table>
2018 Transportation Air Quality Conformity Analysis

2017 AD SIP On-Road NO\textsubscript{X} Emissions by On-Road Mobile Sector

- **Heavy-Duty Diesel**: 63.46 tpd (48.53%)
- **Light-Duty Gas**: 49.65 tpd (37.96%)
- **Medium-Duty Gas**: 12.52 tpd (9.57%)
- **Light-Duty Diesel**: 1.15 tpd (0.89%)
- **Heavy-Duty Gas**: 1.65 tpd (1.26%)
- **Medium-Duty Diesel**: 2.34 tpd (1.79%)

Total NO\textsubscript{X} = 130.77 tons per day (tpd)
Air Quality Control Strategies and Local Programs
This Air Quality Handbook presents the current status of regional air quality and a summary of the work undertaken by the North Central Texas Council of Governments as the metropolitan planning organization and its partners to reduce air pollution and help the region meet federal air quality standards.

Exhibit 1: North Central Texas Nonattainment Area and Ozone Monitoring Sites
## 2018 Transportation Air Quality Conformity Analysis

### Schedule

<table>
<thead>
<tr>
<th>Task Name</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>STTC (Information Item)</td>
<td>April 27, 2018</td>
</tr>
<tr>
<td><strong>1st May Public Meeting</strong></td>
<td><strong>May 8, 2018</strong></td>
</tr>
<tr>
<td>(Public Comment Period Begins)</td>
<td></td>
</tr>
<tr>
<td>RTC (Information Item)</td>
<td>May 10, 2018</td>
</tr>
<tr>
<td><strong>2nd and 3rd May Public Meetings</strong></td>
<td><strong>May 15-16, 2018</strong></td>
</tr>
<tr>
<td>STTC (Action Item)</td>
<td>May 25, 2018</td>
</tr>
<tr>
<td><strong>End of Public Comment Period</strong></td>
<td><strong>June 9, 2018</strong></td>
</tr>
<tr>
<td>RTC (Action Item)</td>
<td>June 14, 2018</td>
</tr>
<tr>
<td>Interagency Consultation Review Begins</td>
<td>June 2018</td>
</tr>
<tr>
<td>Executive Board (Action Item)</td>
<td>June 22, 2018</td>
</tr>
<tr>
<td>FHWA Approval of Conformity</td>
<td><strong>No Later Than November 23, 2018</strong></td>
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</table>
Resources

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