CHAPTER 3: CONFORMITY

3.1 What is Transportation Conformity?
Transportation Conformity is a way to ensure federal funding and approval goes to transportation activities consistent with air quality goals. Before Metropolitan Transportation Plans (MTPs) and Transportation Improvement Programs (TIPs) can be adopted, approved, or accepted in nonattainment areas, Metropolitan Planning Organizations (MPOs) and the US Department of Transportation must make conformity determinations on these documents. Per Section 176I (1) (A) of the Clean Air Act Amendments of 1990, conformity is granted when the following conditions are met:

Conformity to an implementation plan’s purpose of eliminating or reducing the severity and number of violations of the national ambient air quality standards and achieving expeditious attainment of such standards; and (B) that such activities will not (i) cause or contribute to any new violation of any standards in any area; (ii) increase the frequency or severity of any existing violation of any standard in any area; or (iii) delay timely attainment of any standard or any required interim emission reductions or other milestones in any area.

A regional emissions analysis is the key analytic component of the Transportation Conformity process. It is conducted to demonstrate regional emissions from on-road sources do not exceed the established Motor Vehicle Emission Budgets (MVEB), causing or contributing to violations of the Environmental Protection Agency’s (EPA) National Ambient Air Quality Standards (NAAQS), and ensures transportation activities are consistent with air quality goals identified in the State Implementation Plan (SIP).

The determination of the analysis is a two-step process in metropolitan areas. The first step is for the MPO to make the initial Transportation Conformity determination at the local level. For the North Central Texas (NCT) nonattainment area, this responsibility falls with the Regional Transportation Council (RTC), the MPO’s policy body. The second step is for the Federal Highway Administration and the Federal Transit Administration to make a joint Transportation Conformity determination at the federal level. Upon federal approval, a four-year window begins during which projects, programs, and policies identified in the MTP and TIP may move toward implementation.

Another important goal of conformity is to demonstrate the timely implementation of Transportation Control Measures (TCMs). TCMs are specific projects and programs designed to reduce emissions from transportation sources by reducing or relieving congestion. TCMs in the SIP are contained and funded in the MTP and the TIP. The TCMs are selected through the comprehensive transportation planning process during the development of these documents. Examples, pictured in Exhibit 3.1-1, include Intelligent Transportation System projects and traffic signal progression to help relieve congestion, as well as bike/pedestrian pathways offering alternate commute strategies.
Federal law also requires the state, working with the nonattainment area, to develop additional control measures to meet the Reasonable Further Progress (RFP) and Attainment Demonstration (AD) SIPs. Examples of these programs are included in Chapter 4 in the AD and RFP SIP. In addition, Appendix H of the AD SIP includes locally implemented control strategies adopted by the RTC.\textsuperscript{15}

The first Transportation Conformity for NCT occurred in 1998. Exhibit 3.1-2 provides a historical summary of conformity-related activities in NCT.

<table>
<thead>
<tr>
<th>DATE</th>
<th>MILESTONE</th>
<th>COMMENTS/SOURCE</th>
</tr>
</thead>
</table>
| November 18, 1998 | Texas Natural Resource Conservation Commission (TNRCC) adopted Transportation Conformity SIP and Rule Revision. | **Transportation Conformity SIP**  
**Transportation Conformity Rule** |
| December 10, 1998 | TNRCC submitted Transportation Conformity SIP to EPA.                    | **Transportation Conformity SIP**  
**Transportation Conformity Rule** |
| February 25, 1999 | Favorable Air Quality Conformity Determination on Mobility 2020 and 1999-2001 TIP. | Federal Highway Administration (FHWA)/Federal Transit Administration (FTA) joint determination letter |
| April 20, 1999 | Nitrogen Oxides (NOx) Waiver Rescinded | Requires conformity conducted on NOx emissions  
Effective Date: June 21, 1999  
(\textit{64 FR 19283}) |
| July 8, 1999  | EPA approved Implementation Plan for Texas: Transportation Conformity Rule. | Effective Date: September 7, 1999  
(\textit{64 FR 36790}) |

\textsuperscript{15} \url{https://www.tceq.texas.gov/airquality/sip/sipplans.html}
### Exhibit 3.1-2 North Central Texas Ozone Nonattainment Area Conformity History (continued)

<table>
<thead>
<tr>
<th>DATE</th>
<th>MILESTONE</th>
<th>COMMENTS/SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 12, 2000</td>
<td>EPA declared 9% Rate of Progress MVEB adequate.</td>
<td>MVEBs: NO\textsubscript{X} = 284.14 tpd and Volatile Organic Compounds (VOC) = 147.22 tpd&lt;br&gt;Effective Date: January 27, 2000 (65 FR 1862)</td>
</tr>
<tr>
<td>May 8, 2000</td>
<td>Adequacy Review of AD SIP submissions for conformity.</td>
<td>90-day MVEB review</td>
</tr>
<tr>
<td>July 13, 2000</td>
<td>Favorable Air Quality Conformity Determination on Mobility 2025 and 2000-2002 TIP.</td>
<td>FHWA/FTA joint determination letter</td>
</tr>
<tr>
<td>October 20, 2000</td>
<td>EPA declared AD SIP MVEB adequate.</td>
<td>Requires conformity analysis within 18 months on new MVEBs: NO\textsubscript{X} = 164.30 tpd and VOC = 107.60 tpd&lt;br&gt;Effective Date: November 6, 2000 (65 FR 63074)</td>
</tr>
<tr>
<td>October 19, 2001</td>
<td>Favorable Air Quality Conformity Determination on Mobility 2025 Update and 2002-2004 TIP.</td>
<td>FHWA/FTA joint determination letter</td>
</tr>
<tr>
<td>January 27, 2003</td>
<td>Favorable Air Quality Conformity Determination on Mobility 2025 and amended 2002-2004 TIP.</td>
<td>FHWA/FTA joint determination letter</td>
</tr>
<tr>
<td>April 8, 2004</td>
<td>Favorable Air Quality Conformity Determination on Mobility 2025 Update and 2004-2006 TIP</td>
<td>FHWA/FTA joint determination letter</td>
</tr>
<tr>
<td>July 1, 2004</td>
<td>EPA published final Transportation Conformity Rule Amendments for the new 8-hour ozone and Particulate Matter (PM\textsubscript{2.5}) NAAQS and miscellaneous revisions for existing areas.</td>
<td>Amended to include criteria and procedures for the new 8-hour ozone and PM\textsubscript{2.5} NAAQS&lt;br&gt;Effective Date: August 2, 2004 (69 FR 40004)</td>
</tr>
<tr>
<td>March 8, 2005</td>
<td>Guidance for determining the “attainment year” for Transportation Conformity in new 8-hour ozone and PM\textsubscript{2.5} nonattainment areas.</td>
<td>EPA Memorandum</td>
</tr>
<tr>
<td>June 1, 2005</td>
<td>EPA declared 5% Increment of Progress MVEB adequate.</td>
<td>MVEBs: NO\textsubscript{X} = 201.32 tpd and VOC = 104.14 tpd&lt;br&gt;Effective Date: June 16, 2005 (70 FR 31441)</td>
</tr>
<tr>
<td>June 3, 2005</td>
<td>Anticipation of a 24-hour Transportation Conformity lapse.</td>
<td>US DOT Letter</td>
</tr>
<tr>
<td>June 15, 2005</td>
<td>Conformity Determination due for the nine-county ozone nonattainment area.</td>
<td>Favorable Conformity Determination received on June 16, 2005</td>
</tr>
<tr>
<td>June 16, 2005</td>
<td>Favorable Air Quality Conformity Determination on Mobility 2025 Update and 2006-2008 TIP.</td>
<td>One day lapse in conformity&lt;br&gt;FHWA/FTA joint determination letter&lt;br&gt;FHWA/FTA joint determination letter (correction)</td>
</tr>
<tr>
<td>August 10, 2005</td>
<td>Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)</td>
<td>Extends three-year clock on long-range plans to four years.</td>
</tr>
</tbody>
</table>
## Exhibit 3.1-2 North Central Texas Ozone Nonattainment Area Conformity History (continued)

<table>
<thead>
<tr>
<th>DATE</th>
<th>MILESTONE</th>
<th>COMMENTS/SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 8, 2007</td>
<td>Texas Commission on Environmental Quality (TCEQ) adopted a rule revision to align state transportation conformity requirements with SAFETEA-LU.</td>
<td>TCEQ Rule Revision</td>
</tr>
<tr>
<td>June 12, 2007</td>
<td>Favorable Air Quality Conformity Determination of Mobility 2030 and Amended Fiscal Year 2006-2008 TIP.</td>
<td>FHWA/FTA joint determination letter</td>
</tr>
<tr>
<td>January 24, 2008</td>
<td>Transportation Conformity Rule Amendments to Implement SAFETEA-LU Provisions.</td>
<td>EPA updates the Transportation Conformity Rule to make it consistent with the Clean Air Act as amended by SAFETEA-LU. (73 FR 4420)</td>
</tr>
<tr>
<td>March 21, 2008</td>
<td>EPA declared 2009 AD SIP MVEB adequate for Transportation Conformity purposes.</td>
<td>MVEBs: NO\textsubscript{X} = 186.81 tpd and VOC = 99.09 tpd Effective Date: April 7, 2008 (73 FR 15152)</td>
</tr>
<tr>
<td>May 21, 2012</td>
<td>EPA published final rule revoking the 1997 8-Hour Ozone NAAQS for Transportation Conformity purposes.</td>
<td>Effective Date: July 20, 2012 (77 FR 30160)</td>
</tr>
<tr>
<td>July 6, 2012</td>
<td>Moving Ahead For Progress in the 21st Century Act (MAP-21) signed into law.</td>
<td>Funds surface transportation programs and creates a streamlined and performance-based surface transportation program</td>
</tr>
<tr>
<td>February 1, 2013</td>
<td>EPA declared 2011 and 2012 RFP SIP MVEB adequate for Transportation Conformity purposes.</td>
<td>2011 MVEBs: NO\textsubscript{X} = 197.05 tpd and VOC = 89.54 tpd 2012 MVEBs: NO\textsubscript{X} = 195.39 tpd and VOC = 82.20 tpd Effective Date: February 19, 2013 (78 FR 7429)</td>
</tr>
<tr>
<td>October 7, 2014</td>
<td>Official release of MOVES2014 for use outside of California. Update to the July version of MOVES2014 to fix user-reported issues.</td>
<td>(79 FR 60343)</td>
</tr>
<tr>
<td>December 23, 2014</td>
<td>DC Court of Appeals published consent decree reversing EPA’s final rule revoking the 1997 8-Hour Ozone NAAQS for the purpose of Transportation Conformity.</td>
<td>DC Court of Appeals Consent Decree</td>
</tr>
</tbody>
</table>
### Exhibit 3.1-2 North Central Texas Ozone Nonattainment Area Conformity History (continued)

<table>
<thead>
<tr>
<th>DATE</th>
<th>MILESTONE</th>
<th>COMMENTS/SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 4, 2015</td>
<td>MOVES2014a released</td>
<td></td>
</tr>
<tr>
<td>December 2015</td>
<td>MOVES2014a update released</td>
<td></td>
</tr>
<tr>
<td>December 4, 2015</td>
<td>Fixing America’s Surface Transportation Act, (FAST Act) signed into law.</td>
<td>Provides long-term funding for surface transportation and streamlines approval process for new transportation projects.</td>
</tr>
<tr>
<td>January 11, 2016</td>
<td>EPA declared 2017 RFP SIP MVEB adequate for Transportation Conformity purposes.</td>
<td>2017 MVEBs: NO(_X) = 148.36 tpd and VOC = 77.18 tpd Effective Date: January 26, 2016 (<a href="#">81 FR 1184</a>)</td>
</tr>
<tr>
<td>September 7, 2016</td>
<td>Favorable Air Quality Conformity Determination on Mobility 2040 and 2015-2018 TIP.</td>
<td><a href="#">FHWA/FTA joint determination letter</a></td>
</tr>
<tr>
<td>November 8, 2016</td>
<td>EPA declared 2017 AD SIP MVEB adequate for Transportation Conformity purposes.</td>
<td>2017 MVEBs: NO(_X) = 130.77 tpd and VOC = 64.91 tpd Effective Date: November 23, 2016 (<a href="#">81 FR 78591</a>)</td>
</tr>
<tr>
<td>November 17, 2016</td>
<td>MOVES2014a update released</td>
<td></td>
</tr>
<tr>
<td>December 11, 2017</td>
<td>MOVES2014a update released</td>
<td></td>
</tr>
<tr>
<td>January 7, 2021</td>
<td>MOVES3 released</td>
<td><a href="govinfo.gov">2021-00023.pdf</a></td>
</tr>
<tr>
<td>March 12, 2021</td>
<td>MOVES3 update released</td>
<td></td>
</tr>
<tr>
<td>September 13, 2021</td>
<td>MOVES3 update released</td>
<td></td>
</tr>
<tr>
<td>January 11, 2022</td>
<td>MOVES3 update released</td>
<td></td>
</tr>
<tr>
<td>Anticipated</td>
<td>Anticipated EPA declaration 2020 RFP SIP MVEB adequate for Transportation Conformity Purposes</td>
<td>2020 MVEBs: NO(_X) = 107.25 tpd and VOC = 62.41 tpd (<a href="#">85 FR 64084</a>)</td>
</tr>
</tbody>
</table>

This report contains conformity determinations conducted for Mobility 2045 – 2022 Update, with supporting 2023-2026 TIP, with both documents meeting the requirements of the Clean Air Act (United States Code, Title 42 §7504, 7506 (c) and (d)) as amended on November 15, 1990, the applicable SIP, and the conformity rule (40 CFR Part 93). This conformity determination was conducted with the support of the North Central Texas Council of Governments’ RTC.

### 3.2 Conformity Criteria

Specific criteria must be met in order for an MTP, TIP, or regionally significant projects to be found to conform. The criteria, listed in Exhibit 3.2-1, vary based upon the action under review, the pollutant of concern, and the status of the SIP. Further information on each criteria may be found within the text of this document.
Exhibit 3.2-1: North Central Texas Nonattainment Area Applicable Conformity Criteria

<table>
<thead>
<tr>
<th>All Actions at All Times</th>
<th>40 CFR 93</th>
<th>Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latest Planning Assumptions</td>
<td>93.110</td>
<td>4/5</td>
</tr>
<tr>
<td>Latest Emissions Model</td>
<td>93.111</td>
<td>7</td>
</tr>
<tr>
<td>Consultation</td>
<td>93.112</td>
<td>10</td>
</tr>
</tbody>
</table>

**Metropolitan Transportation Plan**

| Timely Implementation of TCMs | 93.113(b) | 8.1.1 |
| Emissions Budget or Emissions Reduction | 93.118 | 8 |

**Transportation Improvement Program**

| Timely Implementation of TCMs | 93.113(c) | 8.1.1 |
| Emissions Budget or Emissions Reduction | 93.118 | 8 |

**Project (from a Conforming Plan or TIP)**

| Currently Conforming Plan and TIP | 93.114 | 4 |
| Project from a Conforming Plan or TIP | 93.115 | 4 |
| Carbon Monoxide (CO) and PM$_{10}$ Hot Spots | 93.116 | Not Applicable |
| PM$_{10}$ Control Measures | 93.117 | Not Applicable |

**Project (not from a Conforming Plan or TIP)**

| Timely Implementation of TCMs | 93.113(d) | 8.1.1 |
| Currently Conforming Plan and TIP | 93.114 | 4 |
| CO and PM$_{10}$ Hot Spots | 93.116 | Not Applicable |
| PM$_{10}$ Control Measures | 93.117 | Not Applicable |

### 3.3 Checklist

In an effort to improve the efficiency of the conformity determination review process for Texas, a checklist was developed as a guideline for preparing and reviewing Transportation Conformity documents. Exhibit 3.3-1 is the checklist detailing information relevant to this conformity document.

**Exhibit 3.3-1: Information Required for Transportation Conformity Review**

<table>
<thead>
<tr>
<th>Item</th>
<th>Regulation Reference</th>
<th>Format</th>
<th>Report Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Documents</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2023-2026 Transportation Improvement Program (2023-2026 TIP)</td>
<td>Part 93 Subpart A</td>
<td>Independent Self-Supporting Document (Electronic File)</td>
<td>Appendix 12.5</td>
</tr>
</tbody>
</table>
### Exhibit 3.3-1: Information Required for Transportation Conformity Review (continued)

<table>
<thead>
<tr>
<th>Item</th>
<th>Regulation Reference</th>
<th>Format</th>
<th>Report Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MOVES</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guidance Supporting MOVES  Input Development (SIP Consistency, EPA's Information Sheets, etc.)</td>
<td>Discussion Contained in Conformity Document and Appropriate Appendices</td>
<td>Section 7.2 Appendix 12.6 Appendix 12.13</td>
<td></td>
</tr>
<tr>
<td>Description of Version of MOVES Model Being Used (MOVES3, updated January 2022)</td>
<td>Discussion Contained in Conformity Document</td>
<td>Section 7.2</td>
<td></td>
</tr>
<tr>
<td>MOVES Input and Output Files</td>
<td>Electronic (ASCII or txt File Format)</td>
<td>Appendix 12.14</td>
<td></td>
</tr>
<tr>
<td>MOVES Input Parameters</td>
<td>Electronic (ASCII or txt File Format)</td>
<td>Appendix 12.15</td>
<td></td>
</tr>
<tr>
<td>MOVES Emission Factors</td>
<td>Electronic (ASCII or txt File Format)</td>
<td>Appendix 12.16</td>
<td></td>
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<tr>
<td>MOVES External Reference Files</td>
<td>Electronic (ASCII or txt File Format)</td>
<td>Appendix 12.21</td>
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<tr>
<td><strong>Mobile Source Emissions Reduction Strategies (MoSERS)</strong></td>
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</tr>
<tr>
<td>MoSERS Methodology and Calculation Descriptions</td>
<td>Electronic File</td>
<td>Appendix 12.18</td>
<td></td>
</tr>
<tr>
<td>MoSERS Project Listing</td>
<td>Electronic File</td>
<td>Appendix 12.19</td>
<td></td>
</tr>
<tr>
<td><strong>Travel Demand Model</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Highway Performance Monitoring System Adjustment(s), Factors, Approach</td>
<td>40 CFR 93.122(b)(3)</td>
<td>Discussion Contained in Conformity Document (Electronic File)</td>
<td>Section 5.5.1</td>
</tr>
<tr>
<td>Description of Travel Demand Model Validation, Including Validation Year</td>
<td>40 CFR 93.106(a)(1)(ii)</td>
<td>Discussion Contained in Conformity Document (Electronic File)</td>
<td>Chapter 5 Appendix 12.7</td>
</tr>
<tr>
<td>Vehicle Miles of Travel (August Midweek 24-Hour by Roadway Type)</td>
<td>Electronic File</td>
<td>Appendix 12.9</td>
<td></td>
</tr>
<tr>
<td>Average Loaded Speeds (August Midweek 24-Hour by Roadway Type)</td>
<td>Electronic File</td>
<td>Appendix 12.10</td>
<td></td>
</tr>
<tr>
<td>Centerline Mile Summaries for Each Analysis Year</td>
<td>Electronic File</td>
<td>Appendix 12.11</td>
<td></td>
</tr>
<tr>
<td>Definition of Regionally Significant Roadway System</td>
<td>Electronic File</td>
<td>Appendix 12.22</td>
<td></td>
</tr>
<tr>
<td>Network Link Listing for Each Analysis Year</td>
<td>Discussion Contained in Conformity Document (Electronic File) (Electronic Files Should Include TransCAD Files, SHAPE Files, and Spreadsheet Files)</td>
<td>Exhibit 5.2-1 Appendix 12.8 Appendix 12.24</td>
<td></td>
</tr>
</tbody>
</table>
### Exhibit 3.3-1: Information Required for Transportation Conformity Review (continued)

<table>
<thead>
<tr>
<th>Item</th>
<th>Regulation Reference</th>
<th>Format</th>
<th>Report Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Travel Demand Model (continued)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Files Containing Hourly Distribution by County, Roadway Type, and Vehicle Type for:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Vehicle Miles of Travel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Vehicle Hours</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Average Operational Speed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Vehicle Population</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- NOx Emissions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- VOC Emissions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SIP Requirements</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TCMs in SIP, Including Emission Reductions, Methodologies, Implementation Dates, etc.</td>
<td></td>
<td>Electronic File</td>
<td>Appendix 12.17</td>
</tr>
<tr>
<td>Timely Implementation of TCMs (progress)</td>
<td>40 CFR 93.113</td>
<td>Discussion Contained in Conformity Document (Electronic File)</td>
<td>Section 8.1</td>
</tr>
<tr>
<td><strong>Project Listings</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roadway System (Capacity Staging)</td>
<td>In Response to March 2, 1999 Court Ruling</td>
<td>Identified in TIP: Independent Self-Supporting Document</td>
<td>Appendix 12.8</td>
</tr>
<tr>
<td>Evidence of MTP Specifically Describing the Transportation System Envisioned for Each Analysis Year</td>
<td>40 CFR 93.106(a)</td>
<td>Included in MTP: Independent Self-Supporting Document (Electronic File)</td>
<td>Appendix 12.4</td>
</tr>
<tr>
<td><strong>Public, State, and Federal Involvement</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evidence of Public Participation and Response to Comments</td>
<td>40 CFR 93.105</td>
<td>Discussion Contained in Conformity Document (Electronic File)</td>
<td>Chapter 11 Appendix 12.20</td>
</tr>
</tbody>
</table>

16 Projects listed in 40 CFR 93.127 are exempt from regional emissions analysis, but not localized emissions (hot-spot) analysis.
**3.4 Emissions Analysis**

A regional emissions analysis is the key analytic component of the Transportation Conformity process. It is conducted to demonstrate regional emissions from on-road sources do not exceed the established MVEBs, causing or contributing to violations of EPA NAAQS, and ensures transportation activities are consistent with air quality goals identified in the SIP.

**3.4.1 Regional Inventory**

This conformity analysis of the NCT nonattainment area accounts for emissions resulting from the nonattainment area’s MTP (Mobility 2045 – 2022 Update), including all regionally significant projects located within the 10-county NCT nonattainment area, and the effects of emission control programs adopted by an enforcing jurisdiction; for example, an Inspection and Maintenance Program.

**3.4.2 Emissions Tests**

Conformity determinations must demonstrate consistency between expected emissions from implementing the MTP and TIP with the MVEBs in the applicable implementation plan. To meet this requirement, conformity determinations in nonattainment areas with adequate MVEBs from an applicable SIP must perform an MVEB test. For the MVEB test, the emissions analysis must demonstrate the estimated emissions are less than the MVEBs in the applicable implementation plan. Applicable MVEBs\(^\text{17}\) for the NCT 10-county nonattainment area are shown in Exhibit 3.4.2-1. A copy of the EPA’s Federal Register notice on the anticipated MVEB adequacy can be found in Appendix 12.3.

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\(^{17}\) 85 FR 64084
Exhibit 3.4.2-1: Motor Vehicle Emissions Budgets for the North Central Texas Nonattainment Area

<table>
<thead>
<tr>
<th>DFW 10-County Nonattainment Area</th>
<th>NO\textsubscript{X} (tons/day)</th>
<th>VOC (tons/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020 Motor Vehicle Emission Budgets</td>
<td>107.25</td>
<td>62.41</td>
</tr>
</tbody>
</table>

3.4.3 Analysis Years
The regional emission analysis must be performed for the years for which MVEBs are established, the area’s attainment year, if within the timeframe of the plan/conformity, the MTP horizon year, and interim years so that no interval is greater than 10 years. To meet this requirement, the selected analysis years for this conformity determination are 2023 (attainment year for the 2015 ozone NAAQS), 2026, 2036, and 2045 (the MTP horizon year).

The Dallas-Fort Worth Travel Model for the Expanded Area (TAFT) and the EPA’s MOVES emissions models were used for this conformity analysis. The EPA’s MOVES model produces emission factors for mobile sources. TAFT predicts regional vehicle activity due to human behavior and the EPA’s emission model estimates vehicle emission rates. TAFT estimates vehicle activity in three time periods: AM Peak (6:30 AM to 8:59 AM), PM Peak (3:00 PM to 6:29 PM), and Off-Peak (9:00 AM to 2:59 PM and 6:30 PM to 6:29 AM) to better account for human driving behavior as a result of capacity availability fluctuations throughout a day.

3.4.4 Analysis Results
This emissions analysis for determining conformity was performed under the Code of Federal Regulations Title 40, Part §93.109(c)(2)(ii)(B). Since the 2015 8-hour ozone nonattainment area covers a smaller geographic area within the 2008 8-hour ozone nonattainment area, the approved 2017 AD SIP MVEBs, shown in Exhibit 3.4.2-1, may be used to determine conformity for the 2015 8-Hour Ozone NAAQS.

The vehicle emission results shown in Exhibits 3.4.4-1 and 3.4.4-2 demonstrate the NCT nonattainment area meets the regional air quality conformity requirements of the 2020 MVEBs test established for the 10-county nonattainment region. The Exhibits also show the emission results for the 2015 ozone nine-county (excluding Rockwall County) nonattainment region meets the conformity requirements for a newly designated nonattainment region. Exhibits 3.4.4-1 and 3.4.4-2 also depict RTC initiatives for NO\textsubscript{X} and VOC for the analysis year 2023. These initiatives include projects and programs put in place to improve air quality. The magnitude of RTC initiatives demonstrates the region's commitment to reducing air pollution by minimizing vehicle emissions while improving mobility and the overall quality of life.
Exhibit 3.4.4-1: 2022 Transportation Conformity for the North Central Texas Nonattainment Area
Emissions of Nitrogen Oxides

Emissions of Nitrogen Oxides
Anticipated Dallas-Fort Worth, Texas Reasonable Further Progress 8-Hour Ozone Motor Vehicle Emission Budgets (MVEB) for Transportation Conformity Purposes 85 FR 64084
Exhibit 3.4.4-2: 2022 Transportation Conformity for the North Central Texas Nonattainment Area
Emissions of Volatile Organic Compounds

Anticipated Dallas-Fort Worth, Texas Reasonable Further Progress 8-Hour Ozone Motor Vehicle Emission Budgets (MVEB) for Transportation Conformity Purposes 85 FR 64084