

## 6. REGIONAL EMISSIONS DETERMINATION

The final emission analysis results match the modeled link-level emission inventories, since the post-processed Mobile Source Emission Reduction Strategies (MoSERS) emission benefits are only for informational purposes and are not applied to the regional emissions totals.

### 6.1 MODELED EMISSIONS

**Table 6-1. Emissions Analysis for Regional Conformity Determination with approved budgets**

Analysis Year	Vehicle Miles of Travel	NOx Budget (tons/day)	NOx Emissions (tons/day)	VOC Budget (tons/day)	VOC Emissions (tons/day)
2026	268,352,534	107.25	72.36	62.41	38.54
2035	323,931,317	107.25	64.86	62.41	32.54
2040	358,295,274	107.25	68.47	62.41	31.63
2050	426,898,352	107.25	93.27	62.41	35.82

### 6.2 IMPACTS FROM ADJUSTMENTS AND MOSERS

#### 6.2.1 Adjustments to Emission Factors

Post-processing adjustments, such as TxLED, are generally applied using the post-process emission factor utility developed by TTI. These adjustments are applied either before or simultaneously with the emission calculation procedures to establish the model results. This process is listed in Chapter 5. For this analysis, the TxLED post-processing adjustments were not applied, as using EPA's recent guidance would yield negligible benefits.

#### 6.2.2 MoSERS Projects

MoSERS is a collection of transportation projects or related activities with identifiable emission reduction benefits. To meet the requirements of the SIP, nonattainment areas may make specific commitments in their SIP to implement MoSERS, called TCMs. Finally, a nonattainment area may include Transportation Emission Reduction Measures (TERMs) in transportation conformity analysis that are outside of commitments in their SIP.

##### 6.2.2.1 TCM

TCMs are projects, programs, and related activities designed to achieve on-road mobile source emission reductions and are included as control measures in an applicable SIP. TCMs are strategies to reduce vehicle use or change traffic flow and/or congestion conditions to decrease vehicular emissions. TCMs are further defined in [40 CFR 93.101](#), as amended by 62 FR 43780.

The CAAA required that TCMs be included in SIPs for regions designated as serious and above ozone nonattainment areas.

[Section 93.113](#) of the conformity rule requires MPOs to verify the MTP and TIP provide for the timely implementation of TCMs in the applicable SIP. The MTP was reviewed to confirm the goals, directives, recommendations, and projects do not contradict specific requirements or commitments of the applicable SIP. The TIP was reviewed to confirm implementation. The applicable TCM commitments have been implemented.

#### 6.2.2.2 TERM

TERMs are transportation projects and related activities that are designed to achieve on-road mobile source emission reductions but are not included as control measures in the SIP.

#### 6.2.2.3 CMAQ

The Congestion Mitigation and Air Quality Improvement Program (CMAQ) is a major funding source for most MoSERS.

#### 6.2.2.4 MoSERS Emission Reduction

Emission reductions from the sum of MoSERS, i.e., strategies part of both TCMs and TERMs, listed as post-processed in Table 5-9, are in Table 6 2. The methodology, list of projects, and the calculations can be found in Appendix E: TCMs and TERMs. These emission reductions are for informational purposes and are not applied to the regional emissions totals.

**Table 6-2. The Sum of MoSERS Benefits (for informational purposes only)**

Analysis Year	NO <sub>x</sub> (tons/day)	VOC (tons/day)
2026	1.05	0.18
2035	N/A	N/A
2040	N/A	N/A
2050	N/A	N/A

## 6.3 FINAL ANALYSIS RESULTS

Table 6-3 shows the final mobile emission results of this conformity analysis. These final emissions are below the maximum allowable level set forth by the MVEB for the Nitrogen Oxides (NO<sub>x</sub>) and the Volatile Organic Compounds (VOC) in the SIP.

**Table 6-3. Emissions Analysis for Regional Conformity Determination with approved budgets**

<b>Analysis Year</b>	<b>Vehicle Miles of Travel</b>	<b>NOx Budget (tons/day)</b>	<b>NOx Emissions (tons/day)</b>	<b>VOC Budget (tons/day)</b>	<b>VOC Emissions (tons/day)</b>
2026	268,352,534	107.25	72.36	62.41	38.54
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