

CONFORMITY DOCUMENT STRUCTURE

Preface

- Color Cover Page
- What is *(Insert Organization Description)*?
- Black and White Cover Page
- List of Board Members and Council Members
- Acknowledgements
- Abstract
 - Table of Contents
 - List of Exhibits
 - Glossary of Abbreviations

Chapter 1: Executive Summary

- 1.1 Conformity Overview – *Information on why conformity is being conducted and includes the Motor Vehicle Emission Budgets*
- 1.2 Nonattainment Area – *Description of nonattainment area*
- 1.3 Analysis – *Description of analysis including analysis years for conformity determination.*
- 1.4 Summary – *Provides name of Metropolitan Transportation Plan and Transportation Improvement Program for current conformity analysis.*

Chapter 2: Air Quality

- 2.1 Air Pollution – *Description of National Ambient Air Quality Standards.*
 - 2.1.1 Ground Level Ozone – *Description of formation of ground-level ozone.*
- 2.2 Background of the *(Insert Nonattainment Area)*
 - 2.2.1 Current Ozone Standard – *Discussion of when area was designated nonattainment; classification for area; and map of nonattainment area.*

Chapter 3: Conformity

- 3.1 What is Transportation Conformity? – *Basic description of the purpose of conformity, what it applies to, and goals; brief discussion of State Implementation Plans (SIPs) and how conformity relates to them.*
- 3.2 Purpose – *Explanation of why transportation conformities are required, including the specific purpose of the current conformity.*
- 3.3 Conformity Criteria – *List of sections from the Code of Federal Regulations (CFR) applicable to the action under review, the pollutant of concern, and the status of the SIP for the region performing the conformity.*
- 3.4 Document Format
- 3.5 Electronic Data Submittal – *Disclaimer stating information submitted to interagency consultation partners will be sent in electronic format.*
- 3.6 Checklist – *List of items required for conformity developed by the Technical Working Group. The checklist can be found here:*
<https://www.texastwg.org/transportation-conformity-resources/>
- 3.7 Emissions Analysis
 - 3.7.1 Regional Inventory
 - 3.7.2 Emissions Tests
 - 3.7.3 Analysis Years – *The years required for the conformity analysis per CFR §93.106.*
 - 3.7.4 Analysis Results

Chapter 4: *(Insert Name of Metropolitan Transportation Plan and Transportation Improvement Program for current conformity analysis)*

- 4.1 Overview
- 4.2 Submittal Frequency
- 4.3 Regional Significant Control Program
- 4.4 Regionally Significant Travel Projects/Program
- 4.5 Non-Federal Projects/Programs
- 4.6 Exempt Projects/Programs
- 4.7 Constraints
 - 4.7.1 Long-Range Financial Constraint (Plan)
 - 4.7.2 Short-Range Financial Constraint (TIP)

Chapter 5: Estimation of Vehicle Activity

- 5.1 Travel Model Overview
- 5.2 Multimodal Transportation Analysis Process
 - 5.2.1 Trip Generation Model
 - 5.2.2 Trip Distribution Model
 - 5.2.3 Mode Choice Model
 - 5.2.4 Roadway Assignment Model
- 5.3 Speed Estimation Procedure
- 5.4 Local Street VMT
- 5.5 Model Adjustments – *Explanation of adjustments made to the travel model. May or may not be needed, depending on the travel model used by entity performing conformity analysis.*
 - 5.5.1 Model VMT Adjustments
 - 5.5.2 Seasonal and Daily Adjustments
 - 5.5.3 Hourly Adjustments
 - 5.5.4 Non-Recurring Congestion
- 5.6 Transit Systems
 - 5.6.1 Transit VMT
- 5.7 Roadway VMT
 - 5.7.1 Average Loaded Speeds
 - 5.7.2 Centerline and Lane Miles

Chapter 6: Estimation of Off-Network Activity

- 6.1 Estimation of Source Hours Parked
 - 6.1.1 Vehicle Type Total Available Hours
 - 6.1.2 Vehicle Type Vehicle Hours Travelled
- 6.2 Estimation of Starts
- 6.3 Estimation of Source Hours Idling and Auxiliary Power Unit Hours
 - 6.3.1 Hotelling Activity Scaling Factors
 - 6.3.2 Hotelling Activity Hourly Factors
 - 6.3.3 County Level Fuel Type 2 (CLhT_Diesel) Hotelling Activity by Hour Estimation
 - 6.3.4 County-Level Fuel Type 2 (CLhT_Diesel) Source Hours Idling and Auxiliary Power Unit Hours Estimation

Chapter 7: Emissions Factors/MOVES Model

- 7.1 Overview
- 7.2 Emissions Factor Estimation Model – *According to 40 CFR §93.111, the conformity determination must be based on the latest emission estimation model available. Included in this section are the following parameters, provided by TCEQ:*
 - Meteorological Data (temperature, relative humidity, and barometric pressure):*
 - Inspection and Maintenance (I/M) Program Descriptive Inputs (not needed if region performing conformity does not participate in an I/M Program).**Included in this section are the following parameters, provided by the Texas Transportation Institute (TTI):*
 - MOVES Fuel Supply*
 - MOVES Fuel Properties*
 - 7.2.1 Vehicle Registration Distribution – *Calculated from Texas Department of Motor Vehicle Registration Data.*
- 7.3 Adjustments to Emission Factors
 - 7.3.1 Low Emissions Diesel NO_x Adjustment – *Adjustment factors obtained from TCEQ.*
 - 7.3.2 Vehicle Miles of Travel Mix (or Fractions) – *Calculated using EmisCalc software utility developed by TTI.*
- 7.4 Modeled Emission Estimation - *Calculated using movesutl software utility developed by TTI.*

Chapter 8: Mobile Source Emission Reduction Strategies (MoSERS)

- 8.1 Transportation Control Measures (TCM) – *If the region's SIP includes TCMs, provide a description and the TCM substitution process.*
 - 8.1.1 Timely Implementation of Transportation Control Measures
 - 8.1.2 Project Slippage – *Include any delayed TCM projects.*
- 8.2 Weight of Evidence – *If the region's SIP includes a Weight of Evidence (WOE) chapter, provide a description of WOE programs.*
- 8.3 Transportation Emission Reduction Measures – *If the region's conformity includes emission reduction strategies not included in the SIP. Provide a description of each strategy.*
- 8.4 Congestion Mitigation and Air Quality Improvement Program
- 8.5 Summary – *Provide table of applicable TCMs, WOE, and TERMS and associated emission benefits included in the current conformity analysis*

Chapter 9: Determination of Regional Transportation Emissions

- 9.1 Procedure – *Explanation of what is included in final emission analysis results.*
- 9.2 Modeled Emissions
- 9.3 Adjustments to Emission Factors – *Includes any post-processed adjustments applied to the emission factors.*
- 9.4 Mobile Source Emission Reduction Strategies
- 9.5 Final Emission Analysis Results

Chapter 10: Interagency Consultation

- 10.1 Process Description

Chapter 11: Public Participation

- 11.1 Process Description

List of Appendices