

Transportation Conformity Pre-Analysis Consensus Plan (§93.105)

***A pre-analysis consensus plan is completed prior to the first interagency consultation conference call. Once the data for this plan is filled in, send a draft version of the pre-analysis out to the partners 1-2 weeks before first interagency consultation conference call. This document should be part of discussion during first call. After call, make edits based on feedback, and send back out to the partners for them to make a final approval (usually give 1-2 weeks for their final approval)***

**1. Reason for the Transportation Conformity Regional Emissions Analysis (§93.104) Beginning *XX/XX/XXXX***

Table 1: Explanation

*(Check those boxes that apply and provide a brief explanation in the space provided)*

<input type="checkbox"/>	New Metropolitan Transportation Plan (demographics, horizon year, etc.)
<input type="checkbox"/>	Modify Existing Metropolitan Transportation Plan (interim year adjustments)
<input type="checkbox"/>	New or Amended Transportation Improvement Program
<input type="checkbox"/>	State Implementation Plan (SIP) Requirement
<input type="checkbox"/>	Newly Designated Nonattainment Area
<input type="checkbox"/>	Other

*Explanation: (Please include important dates in your explanation, such as date of needed conformity approval, potential lapse date, etc.)*

**NOTE (for information only) - For MPOs that are required to prepare a Regional Toll Analysis, if you are initiating a conformity process, you should coordinate within your MPO to determine IF an update to the Regional Toll Analysis may be required because of new or revised projects. No documentation as to the status of your Regional Toll Analysis is required as a part of the conformity documentation.**

Here is a link to the [federal transportation conformity rule](#).

**2. Planning Detail (§93.110)**

Table 2: Metropolitan Transportation Plan/Transportation Improvement Program  
(Provide name of document and the years covered)

Plan or Programs	Years Covered

Table 3: State Implementation Plan

SIP Element	Description
Title of Applicable SIP(s)	
Motor Vehicle Emissions Budgets (List year and pollutant in tons/day of all applicable budgets)	
Transportation Control Measures (List brief title of all applicable SIPs and TCM substitutions, provide the dates of each)	

Table 4: Conformity Analysis Years  
(Fill in all that apply)

Requirement	Year
Conformity Base Year	
Attainment Year	
Last Year of Maintenance Plan (If applicable)	
Motor Vehicle Emissions Budget Years	
First Analysis Year <sup>1</sup>	
Intermediate Analysis Year(s) <sup>2</sup>	

<sup>1</sup> Per Code of Federal Regulations §93.106(a)(1)(ii), the first analysis year cannot be more than 10 years from the base year used to validate the transportation demand planning model.

<sup>2</sup> Per Code of Federal Regulations §93.106(a)(1)(i). Analysis years cannot be more than 10 years apart.

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Last Year of Transportation Plan (MTP/RTP)	
Interpolation Years	
Other	

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Table 5: Demographics Used in Conformity Analysis

Data Element	Detail and Source of Data
Population	
Employment	
Socio-economic	
Other	

3. Activity Detail

- Land-Use Model Used  
*(Describe the model and/or methodology)*

Table 6: Travel Demand Model

Model Factor	Detail and Methodology
Model Validation Year	
Software	
Mode Split/Mode Choice	
Vehicle Miles Travel (VMT) Adjustments (HPMS FACTOR)	
Seasonal Correction Factor	
Hourly Distribution Factors	
Counties Covered by Model	
Other	

Table 7: Projects

Project Element	Description
Regionally Significant Definition	
Capacity Changes	
CMAQ Projects	
Non-Federal Projects	
Exempt Projects	
Other	

**4. Emissions Detail (MOVES Emission Factor Model Information)**

- Development of Emission Factors:  
*(Insert description)*

Emission Model  
Version:  
Analysis Year Runs:  
Time Periods:  
Pollutants Reported:  
Functional Class:  
VMT Mix:  
Speed:  
Vehicle Registration:

- MOVES2014 inputs:

Table 8: MOVES2014 Modeled Pollutants

Command	Function/Description	Input Parameter Source/Value
<b>Pollutant</b>	Defines the basic set of pollutants to report.	

Table 9: MOVES2014 External Conditions

Command	Function/Description	Input Parameter Values	Description
<b>MOVES Model Version</b>	Identifies the model version to be utilized for the analysis.		
<b>Calendar Year</b>	Identifies calendar year for which emissions factors are to be calculated. (Required to		<i>Attainment demonstration year and plan forecast years</i>
<b>Evaluation Month</b>	Provides option of calculating emissions factors for each month of the calendar		

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Table 12: MOVES2014 Input Parameters and Source

Input Parameter Name	Description	Source
Source Type Population		
Source Type Age Distribution		
Vehicle Type VMT		
Average Speed Distribution		
Road Type Distribution (VMT Fractions)		
Ramp Fraction		
Fuel Supply		
Meteorology		
Fuel Formulation		
I/M Coverage		
Fuel Engine Fraction / Diesel Fraction		

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Table 13.a: MOVES2014 Fuel Supply

Fuel Formulation ID	Market Share	Market Share CV <sup>3</sup>

Table 13.b: MOVES2014 Fuel Properties

Fuel Type	Gasoline	Diesel
Fuel Formulation ID		
Fuel Subtype ID		
RVP		
Sulfur Level		
ETOH Volume		
MTBE Volume		
ETBE Volume		
TAME Volume		
Aromatic Content		
Olefin Content		
Benzene Content		
e200		
e300		
Vol to Wt Percent Oxy		
BioDieselEster Volume		
Cetane Index		
PAH Content		
T50		
T90		

<sup>3</sup> Market Share CV – the coefficient variation of the market share

Table 14: MOVES2014 Hourly Meteorological Data

Hours	Temperature	Relative Humidity
12:00 a.m.		
1:00 a.m.		
2:00 a.m.		
3:00 a.m.		
4:00 a.m.		
5:00 a.m.		
6:00 a.m.		
7:00 a.m.		
8:00 a.m.		
9:00 a.m.		
10:00 a.m.		
11:00 a.m.		
12:00 p.m.		
1:00 p.m.		
2:00 p.m.		
3:00 p.m.		
4:00 p.m.		
5:00 p.m.		
6:00 p.m.		
7:00 p.m.		
8:00 p.m.		
9:00 p.m.		
10:00 p.m.		
11:00 p.m.		



Table 15: MOVES2014 I/M Descriptive Inputs for Subject Counties

<i>Insert Analysis Year</i>						
<b>I/M Program ID</b>	20	21	22	23	24	Identifies program number with MOVES2014 database
<b>Pollutant Process ID</b>	101, 102, 201, 202, 301, 302	101, 102, 201, 202, 301, 302	101, 102, 201, 202, 301, 302	112	112	
<b>Source Use Type</b>	21, 31, 32	21, 31, 32	52, 54	21, 31, 32	21, 31, 32	
<b>Begin Model Year<sup>1</sup></b>	1996	X	X	X	1996	
<b>End Model Year<sup>2</sup></b>	Y	1995	Y	1995	Y	
<b>Inspect Freq</b>	1	1	1	1	1	Annual testing; program specifications
<b>Test Standards Description</b>	Exhaust OBD Check			Evaporative Gas Cap Check	Evaporative Gas Cap and OBD Check	
<b>Test Standards ID</b>	51	23	12	41	45	Identifies test with MOVES2014 database test standards IDs
<b>I/M Compliance</b>						Expected compliance (%)
<p>Note: Begin Model Year and End Model Year define the range of vehicle model years covered by I/M program.  <sup>1</sup>Begin Model Year, represented by "X" is calculated as "Year ID"-24.  <sup>2</sup>End Model Year, represented by "Y" is calculated as Year ID-2.                      ASM – Acceleration Simulation Mode                      RPM – Revolutions Per Minute                      Source: TCEQ</p>						

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Table 16: MOVES2014 Emissions Factor Post-Processing to Be Performed by County and Year

Strategy and Post-Processing Result	Analysis Year	Counties
Texas Low Emission Diesel Fuel (TxLED)		

Table 17: Emissions Controls Used for Conformity Credit

Emission Reduction Strategy and Years Covered	Modeling or Post-Processing Approach	Analysis Year
Texas Emission Reduction Plan		
Intersection Improvements		
Transit Service		
High Occupancy Vehicle / Managed Lanes		
Park-n-Ride Lots		
Vanpools		
Grade Separations		
Traffic Signal Improvements		
Intelligent Transportation Systems		
Clean Vehicle Commitments		
Bicycle/Pedestrian Facilities		
Employer Trip Reduction Programs		
Vehicle Retirement Program		
Sustainable Development		
Public Education/ Ozone Season Fare Reduction		