Conformity Analysis and Determination Report

2030 Long Range Transportation Plans:

- **Burlington-Graham Metropolitan Planning Organization (Guilford County portion)**
- **Greensboro Urban Area Metropolitan Planning Organization (Guilford County portion)**
- **High Point Urban Area Metropolitan Planning Organization (Guilford and Davidson Counties)**
- **Winston-Salem Urban Area Metropolitan Planning Organization (Davidson County portion)**

Projects from the FY 2006-2012 Transportation Improvement Program:

- **The portions of Davidson County within the Triad PM2.5 Non-Attainment Area but Outside the Metropolitan Planning Organization Areas**

February 17, 2006

Prepared by:

The Transportation Planning Branch of the North Carolina Department of Transportation,
and the
The Piedmont Authority for Regional Transportation,
and the
Forsyth County Environmental Affairs Department,

In Partnership with the:

Burlington-Graham Metropolitan Planning Organization,
Greensboro Metropolitan Planning Organization,
High Point Metropolitan Planning Organization,
Winston-Salem Metropolitan Planning Organization,

and
In cooperation with
The North Carolina Department of Environment and Natural Resources
Division of Air Quality

Contact Information

Additional copies of this report can be obtained from the:

Piedmont Authority for Regional Transportation
7800 Airport Center Dr., Suite 102
Greensboro, NC 27409

or

North Carolina Department of Transportation
Transportation Planning Branch
1554 Mail Service Center
Raleigh, NC 27699-1554

TABLE OF CONTENTS

1 INTRODUCTION 8

2 AIR QUALITY PLANNING 13

2.1 EMISSIONS BUDGET AND BASELINE EMISSIONS 13

3 LONG RANGE TRANSPORTATION PLANS 13

3.1 CONSULTATION 13
3.2 FINANCIAL CONSTRAINT ASSUMPTIONS 14
3.3 LATEST PLANNING ASSUMPTIONS 14
3.4 FUTURE YEAR ROADWAY PROJECTS 15
3.5 TRANSIT NETWORKS 16
3.6 CONGESTION MITIGATION/AIR QUALITY (CMAQ) PROJECTS 17
3.7 TRIP GENERATION 17
3.8 TRIP DISTRIBUTION 17
3.9 MODE CHOICE AND TRANSIT ASSIGNMENT 17
3.10 HIGHWAY ASSIGNMENT AND VEHICLE MILES TRAVELED 17
3.11 METHOD OF REPORTING VMT AND SPEED 18
3.12 EMISSIONS ANALYSIS FOR DAVIDSON COUNTY PORTION OUTSIDE THE TDM (RURAL ANALYSIS) 18
3.12.1 Financial Constraint 19
3.12.2 Latest Planning Assumptions 19
3.12.3 Future Year Roadway Networks 19
3.12.4 Vehicle Miles Traveled (VMT) and Estimation Procedures for Davidson County 19
3.12.5 Emissions Results 20
3.12.6 Method of Calculating Speed 20
3.12.7 Capacity 22
3.12.8 Free flow Speed 22

4 INTERIM EMISSIONS TEST 23

4.0.1 Emissions analysis source 23
4.0.2 Emission comparison years 23
4.1 EMISSIONS MODEL 24
4.2 DEVELOPMENT OF EMISSIONS FACTORS 25
4.3 DEVELOPMENT OF VMT MIX BY VEHICLE TYPE 25
4.4 VEHICLE AGE DISTRIBUTIONS 25
4.5 TRANSPORTATION CONTROL MEASURES 26

5 PUBLIC INVOLVEMENT AND INTERAGENCY CONSULTATION 28

6 CONCLUSION 29

List of Tables and Appendices

Tables

Table 1: Status of Conformity Requirements
Table 2: Davidson County Emissions Comparison Summary
Table 3: Guilford County Emissions Comparison Summary
Table 4: Cross-reference Index
Table 5: Agency Area Responsibilities
Table 6: MPO Roadway Project List
Table 7: MPO Transit Project List
Table 8: Vehicle Miles Traveled for the Donut Portion of Davidson County
Table 9: Daily PM 2.5 and NOx Emissions
Table 10: Capacity by Functional Class
Table 11: NC Regional Area Free Flow Speed
Table 12: Triad Area Transportation Conformity Analysis Matrix
Table 13: Percentage of Vehicles Subject to Inspection and Maintenance Programs
Table 14: Emissions Test and Responsibility for Conformity Findings
Table 15: Davidson County Emissions Comparison Summary
Table 16: Guilford County Emissions Comparison Summary

Appendices

Appendix A: Triad PM2.5 SIP Federal Register Notice

Appendix B: Conformity Determination Letter Endorsements

Appendix C: Interagency Consultation

Appendix D: List of Roadway and Transit Projects (within Non-attainment Maintenance Areas)
- D1: Greensboro Urban Area MPO 2030 LRTP Maps
- D2: Greensboro Urban Area MPO LRTP & Exempt Projects
- D3: High Point Urban Area MPO 2030 LRTP Maps
- D4: High Point Urban Area MPO LRTP & Exempt Projects
- D5: Winston-Salem Urban Area MPO 2030 LRTP Maps
- D6: Winston-Salem Urban Area MPO LRTP & Exempt Projects
- D7: Burlington-Graham Urban Area MPO 2030 LRTP Maps
- D8: Burlington-Graham Urban Area MPO 2030 LRTP Projects
- D9: Guilford County 2006-2012 TIP Projects
- D10: Donut Portion of Davidson County 2006 – 2012 TIP Projects
- D11: Forsyth County 2006-2016 TIP Projects

Appendix E: CMAQ Projects
Appendix F: MOBILE 6.2 Emissions Factors
Appendix G: VMT and Speeds
Appendix H: Emissions Analysis Results by County
Appendix I: Public Participation Policies
Appendix J: Public Comments and Responses
Appendix K: Agency Comments
Appendix L: Conformity Determination Resolutions
Appendix M: LRTP & MTIP Resolutions

This page intentionally left blank

This page intentionally left blank

List of Acronyms

Acronym	*Full Term*
BGMPO	Burlington-Graham Metropolitan Planning Organization.
Conformity Analysis	Demonstration that when the projects planned in the TIP and LRTP are implemented the area will not exceed allowable motor vehicle emissions thresholds (emissions budgets).
Conformity Finding	Statement that the projects contained in the MTIP are essentially consistent with those listed in the LRTP and that no new Conformity Analysis is needed to account for noted differences.
CMS	Congestion Management System. A program of strategies for monitoring, evaluating, and addressing traffic congestion. Required for Transportation Management Areas.
CMAQ	Congestion Mitigation and Air Quality Program. A federal highway fund category for projects that will improve air quality.
DAQ	Division of Air Quality.
DENR	North Carolina Department of Environment and Natural Resources.
Emissions Budget	See Conformity Analysis.
EIS	Environmental Impact Statement. Federally required environmental study for projects with potentially significant environmental effects.
FHWA	Federal Highway Administration (USDOT)
FCEAD	Forsyth County Environmental Affairs Department.
FTA	Federal Transit Administration (US Department of Transportation)
GUAMPO	Greensboro Urban Area Metropolitan Planning Organization.
HPMPO	High Point Metropolitan Planning Organization.
LRTP	Long Range Transportation Plan: 25 year planning document identifying long and short term transportation investment needs.
MAB	Metropolitan Area Boundary. The boundary of the area within the transportation planning jurisdiction of an MPO.
MPO	Metropolitan Planning Organization.
MTIP	Metropolitan Transportation Improvement Program.
MVEB	Motor Vehicle Emission Budgets.

List of Acronyms (cont'd)

NCDOT	North Carolina Department of Transportation.
NEPA	National Environmental Policy Act. Federal law that requires consideration of environmental impacts for all major expenditures of federal funds.
NOx	Oxides of Nitrogen: key precursor to smog. According to DENR, roadway sources produce around 31% of total NC NOx emissions.
PART	Piedmont Authority for Regional Transportation.
Prospectus	Document outlining responsibilities and procedures for carrying out the cooperative transportation planning process. Defines ongoing work tasks cited in the Planning Work Program.
Planning Work Program	Accounting document for use of planning grant funds; lists approved activities that these funds may reimburse. The PWP thus guides transportation planning activities for the year.
RPO	Rural Planning Organization. RPOs are partnerships among non-MPO counties, established to provide rural areas a greater voice in state transportation decisions affecting those areas.
Section 104(f) PL	Funds distributed through the Federal Highway Administration for transportation planning tasks.
SIP	State Implementation Plan. The modeling analysis and the state and federal regulations demonstrating that the air in an area will meet National Ambient Air Quality Standards.
STIP	State Transportation Improvement Program
TCM	Transportation Control Measures. Specific projects or programs enumerated in the SIP that are designed to improve air quality are implemented in a timely fashion.
TDM	Travel Demand Model.
TMA	Transportation Management Area: urbanized area over 200,000 in population.
PTRM	Piedmont Triad Regional Model.
US EPA	United States Environmental Protection Agency.
WSMPO	Winston-Salem Metropolitan Planning Organization.

This page intentionally left blank

Conformity Analysis and Determination Report

2030 Long Range Transportation Plans:

- **Burlington-Graham Metropolitan Planning Organization (Guilford County portion),**
- **Greensboro Urban Area Metropolitan Planning Organization (Guilford County portion),**
- **High Point Urban Area Metropolitan Planning Organization (Guilford and Davidson County portion)**
- **Winston-Salem Urban Area Metropolitan Planning Organization (Davidson County portion)**

Projects from the FY 2006-2012 Transportation Improvement Program:

- **The portion of Davidson County that is within the Triad PM 2.5 Non-Attainment Area but Outside the Metropolitan Planning Organization Areas**

Overview

Transportation Conformity ("conformity") ensures that Federal funding and approval is distributed to those transportation activities that are consistent with air quality goals. Conformity applies to Long Range Transportation Plans (LRTPs), Transportation Improvement Programs (TIPs), and projects funded or approved by the Federal Highway Administration (FHWA) or the Federal Transit Administration (FTA) in areas that do not meet or previously have not met air quality standards for ozone, carbon monoxide, particulate matter, or nitrogen dioxide. These areas are known as "non-attainment areas" or "maintenance areas," respectively.

A conformity determination demonstrates that the total emissions projected for a plan or program are within the emissions limits ("budgets") established by the air quality plan or State Implementation Plan (SIP) for air quality, and that transportation control measures (TCMs) – specific projects or programs enumerated in the SIP that are designed to improve air quality – are implemented in a timely fashion. Davidson and Guilford Counties were designated non-attainment for the PM 2.5 standard and the effective date of the designation was April 5, 2005. The conformity rule (40 CFR Part 93) requires that a conformity determination must be made by April 6, 2006.

Conformity Determination

Regional emissions are estimated based on highway and transit usage according to LRTPs and TIPs. The projected emissions for the LRTPs and the TIPs must not exceed the emissions limits (or "budgets") established by the SIP (or less than baseline emissions where no SIP budgets have been approved or found adequate). Where TCMs are included, responsible Metropolitan Planning Organizations (MPO) and the North Carolina Department Of Transportation (NCDOT) are required to demonstrate that TCMs are implemented in a timely fashion to obtain conformity.

The Decision Process

A formal interagency consultation process involving the Environmental Protection Agency (EPA), FHWA, FTA and State and Local transportation and air quality agencies is required in developing SIPs, TIPs, LRTPs, and in making conformity determinations. MPO policy boards make initial conformity determinations in metropolitan areas, while NCDOT makes this determination in areas outside of MPOs, in consultation with affected Rural Planning Organizations (RPOs).

Five organizations are responsible for making the conformity determinations in five distinct parts of the Triad PM2.5 Non-attainment Area:

a. the Burlington-Graham Urban Area MPO (BGMPO) within its portion of the metropolitan area boundary in eastern Guilford County;
b. the Greensboro Urban Area MPO (GUAMPO) within the metropolitan area boundary currently Guilford County;
c. the High Point Urban Area MPO (HPMPO) within its metropolitan area boundary part in Guilford County and part in Davidson county;
d. the Winston-Salem Urban Area MPO (WSMPO) within its portion of the metropolitan area boundary in northern Davidson County; and
e. the NCDOT in a donut area that is comprised of those portions of Davidson County that remain outside of any MPO metropolitan area boundary.

Each of these responsible organizations must make a conformity determination for its respective area in order for all of the areas to be designated in conformity.

Conformity determinations must also be made at the Federal level by FHWA and FTA. These determinations must be made at least every four years, or with the updating of LRTPs or TIPs, or within one year of the effective date of a non-attainment designation.

Conformity analysis is made available to the public as part of the MPO and/or State DOT planning processes. MPOs are required to make LRTPs, TIPs, and conformity determinations available to the public, accept and respond to public comments, and provide adequate notice of relevant public meetings. Project sponsors of specific transportation projects within the LRTPs and TIPs must also include appropriate public involvement during project development.

Emissions Budget

The SIP places limits on emissions of each pollutant for each source type (mobile, stationary, and area sources). Projected emissions from highway and transit usage must be less than or equal to the emissions limits for on-road mobile vehicles that are established by the SIP (or less than baseline emissions where no SIP budgets have been approved or found adequate). These emissions limits for motor vehicle emissions sources are called "budgets." Budgets are developed as part of the air quality planning process by State air quality/environmental agencies, and approved by EPA. Transportation agencies participate in this process.

Transportation Control Measures (TCMs)

Areas can include TCMs in their SIPs. TCMs are specific programs designed to reduce emissions from transportation sources by reducing vehicle use or changing traffic flow or congestion conditions. These programs can include:

- developing high occupancy vehicle (HOV) facilities
- ordinances to promote non-motor vehicle travel
- transit improvements
- signal timing
- bicycle and pedestrian facilities
- land use planning

Executive Summary

The purpose of this report is to comply with the provisions of the Clean Air Act Amendments of 1990, the Transportation Equity Act for the 21st Century (TEA-21) of 1998 and the Safe Accountable Flexible Efficient Transportation Equity Act-Legacy for Users (SAFETEA-LU) of 2005 (both transportation bills are included because provisions from both bills still apply). This report demonstrates that the activities resulting from the implementation of the fiscally constrained long-range transportation plans (LRTPs) and the transportation improvement programs (TIPs) will not "cause or contribute to any new violation of any standard in any area, increase the frequency or severity of any existing violation of any standard in any area, or delay timely attainment of any standard or any required interim emission reductions or other milestones in any area." of the following jurisdictions:

- The portion of Guilford County within the Burlington-Graham Urban Area Metropolitan Planning Organization (BGMPO)
- The portion of Guilford County within the Greensboro Urban Area Metropolitan Planning Organization (GUAMPO)
- The portions of Guilford and Davidson Counties within the High Point Urban Area Metropolitan Planning Organization (HPMPO)
- The portions of Davidson County within the Winston-Salem Urban Area Metropolitan Planning Organization (WSMPO)
- The portions of Davidson County outside the MPO boundary that are in the Triad PM2.5 Non-Attainment Area.

This conformity determination is based on a regional emissions analysis that uses the transportation network approved by the above-named Metropolitan Planning Organizations (MPOs) for the 2030 LRTPs, VMT and Speed input data developed by NCDOT, and emissions factors developed by the Forsyth County Environmental Affairs (FCEAD) in cooperation with the North Carolina Department of Environment and Natural Resources (DENR).

Based on this analysis, the 2030 LRTPs for the Piedmont Triad Region (BGMPO, GUAMPO, HPMPO, WSMPO and the relevant portion of the Davisdon County) and their respective TIPs are consistent with the intent of Conformity requirement. The FY 2006-2012 TIPs are subsets of the 2030 LRTPs. The conformity analysis for the relevant portion of the Piedmont Triad Rural Planning Organization (RPO) during the TIP years is specifically addressed by the North Carolina Department of Transportation (NCDOT). The NCDOT's analysis also shows the TIP conforms to the purpose of the North Carolina SIP (or less than baseline emissions where no SIP budgets have been approved or found adequate).

The USEPA designated Davidson and Guilford Counties, in their entirety, as a non-attainment area for the PM 2.5 Standard with an effective date of April 5, 2005.

The non-attainment designation covers the following geographic areas:

- Davidson County
- Guilford County

The conformity determination is based on the interim emission test for each county utilizing two primary sources:

- *Piedmont Triad Travel Development Model*
- *Rural Spreadsheet (off-modeled areas of the non-attainment area)*

The conformity determination is based on the following 2030 Long-Range Transportation Plans (LRTP) produced by:

- Burlington-Graham Urban Area MPO (Guilford County portion),
- Greensboro Urban Area MPO (Guilford County portion),
- High Point Urban Area MPO (Guilford and Davidson County portion),
- Winston-Salem Urban Area MPO (Davidson County portion)

This air quality conformity study is based on three transportation analysis horizon years: 2010, 2020, and 2030. Each analysis year includes anticipated population, employment data, and roadway projects that are expected open. The LRTPs are fiscally constrained: funding sources for roadway projects are identified.

FCEAD prepared base and future emission rates for the vehicle fleet using Mobile 6.2. These rates were applied to VMT from the Piedmont Triad Regional Travel Demand Model and the rural spreadsheet. Davidson County and Guilford County do not have emission budgets for PM 2.5. The conformity analysis will be based on an interim emissions test.

Table 1 summarizes the conformity requirements of 40 CFR Part 51 and 93 and gives the status of the LRTPs in relation to each of these requirements. Tables 2 & 3 contain results from the interim emission tests for Davidson and Guilford Counties. In every horizon year for every pollutant in each geographic area, the emissions expected from the implementation of the LRTP and TIP are less than the emissions budgets established in the SIP (or less than baseline emissions where no SIP budgets have been approved or found adequate). Table 4 contains a cross-reference index for the report.

Table 1. Status of Conformity Requirements

Criteria (√ indicates the criterion is met)	**Burlington -Graham MPO**	**Greensboro MPO**	**Forsyth MPO**	**High Point MPO**	**Donut Portion of Davidson County**
Less Than Emissions Budget(s) or Baseline	√	√	√	√	√
TCM Implementation	N/A	N/A	N/A	N/A	N/A
Interagency Consultation	√	√	√	√	√
Latest Emissions Model	√	√	√	√	**
Latest Planning Assumptions	√	√	√	√	√
Fiscal Constraint	√	√	√	√	√

** Rural spreadsheet was used

Table 2. Davidson County Emissions Comparison Summary *(kg/day)*

	PM2.5			NOx		
Year	**MPO Portions**	**Donut Portion**	**County Total**	**MPO Portions**	**Donut Portion**	**County Total**
2002[1]	72	163	235	4,155	9523	13,678
2010	43	94	137	2,288	5116	7,404
2020	28	59	88	872	1953	2,825
2030	31	62	93	565	1164	1,728

Table 3. Guilford County Emissions Comparison Summary *(kg/day)*

	PM2.5			NOx		
Year	**Model**	**Off-Model**	**Comparison**	**Model**	**Off-Model**	**Comparison**
2002[1]	643	3	640	38,863	251	38,612
2010	393	3	390	18,758	142	18,616
2020	225	3	222	6,684	105	6,579
2030	246	3	242	5,105	41	5,063

1. Baseline year.

Table 4. Cross-reference Index Conformity Determination Report for the Long-Range Transportation Plan and TIP in the Triad Urban Area PM 2.5 Non-Attainment Area	
Conformity Requirement	**Page # or Appendix**
Formal findings of conformity.	to be added
Table of Contents.	iii
The purpose of this report is to comply with the requirements of the CAAA, TEA-21, and 40 CFR 51 and 93.	p. 9
The former and current classification of the air shed and the pollutants for which the air shed was classified as non-attainment.	p. 12
The date the region was designated non-Attainment under the PM 2.5 standard.	p. 13
The emissions expected from implementation of the long-range plan are equal to, or less than, the base year emissions generated	p.27
The adopted long-range plan is fiscally constrained (§93.108).	p. 14
The latest planning assumptions were used in the conformity analysis (§93.110).	p. 14
The latest emissions model was used in the conformity analysis (§93.111).	p. 24
The list of federally funded T.C.M. activities included. (§93.113).	p. 26
Conformity determined according to §93.105 and the adopted public involvement procedures.	p. 28
Dates of the Technical Coordinating Committee reviews of the conformity determination and the recommendation.	to be added
SIP emissions budget test or baseline comparison demonstrates conformity of the adopted long-range transportation plan.	p. 29
Listing of projects in each analysis year (highway).	p. 16, Appendix D
VMT & Summary	p. 24, Appendix G
Analysis of “donut area” projects.	Appendix I
Off-model analysis performed.	p. 18, Appendix H
Significant comments of reviewing agencies addressed by the MPO, or a statement that no significant comments were received.	to be added
Emissions Calculations.	Appendix I
Mobile input files.	Appendix F

Conformity Analysis and Determination Report

2030 Long Range Transportation Plans:

- **Burlington-Graham Metropolitan Planning Organization (Guilford County portion)**
- **Greensboro Urban Area Metropolitan Planning Organization (Guilford County portion)**
- **High Point Urban Area Metropolitan Planning Organization (Guilford and Davidson Counties)**
- **Winston-Salem Urban Area Metropolitan Planning Organization (Davidson County portion)**

Projects from the FY 2006-2012 Transportation Improvement Program:

- **The portions of Davidson County that are within the Triad PM2.5 Non-Attainment Area but Outside the Metropolitan Planning Organization Areas**

1 Introduction

The Clean Air Act requires the United States Environmental Protection Agency (USEPA) to set limits on how much of a particular pollutant can be in the air anywhere in the United States. National Ambient Air Quality Standards (NAAQS) are the pollutant limits set by the USEPA; they define the allowable concentration of pollution in the air for six different pollutants – Carbon Monoxide, Lead, Nitrogen Dioxide, Particulate Matter, Ozone, and Sulfur Dioxide.

The Clean Air Act specifies how areas within the country are designated as either "attainment" or "non-attainment" of an air quality standard, and provides USEPA the authority to define the boundaries of non-attainment areas. For areas designated as non-attainment for one or more NAAQS, the Clean Air Act defines a specific timetable to attain the standard and requires that non-attainment areas demonstrate reasonable and steady progress in reducing air pollution emissions until such time that an area can demonstrate attainment. Each state must develop and submit a State Implementation Plan (SIP) that addresses each pollutant for which it fails to meet the NAAQS. Individual State air quality agencies are responsible for defining the overall regional plan to reduce air pollution emissions to levels that will enable attainment and maintenance of the NAAQS. This strategy is articulated through the SIP.

In North Carolina, the agency responsible for SIP development is the North Carolina Department of Environment and Natural Resources, Division of Air Quality (NC DENR/DAQ). The delineation and implementation of strategies to control emissions from on-road mobile sources is a significant element of the state plan to improve air quality, thereby creating a direct link between transportation and air quality planning activities within a non-attainment area. The process of ensuring that a region's transportation planning activities contribute to attainment of the NAAQS, or "conform" to the purposes of the SIP, is referred to as transportation conformity. In order to receive federal transportation funds within the non-attainment area, the area must demonstrate through a federally mandated conformity process that the transportation investments, strategies and programs, taken as a whole, contribute to the air quality goals defined in the state air quality plan.

In order to ensure the conformity requirements are met, Section 176 (c) of the Clean Air Act authorizes the USEPA Administrator to "promulgate criteria and procedures for demonstrating and assuring conformity in the case of transportation plans, programs, and projects." This is accomplished through the Transportation Conformity Rule; developed by the USEPA to outline all federal requirements associated with transportation conformity. The Transportation Conformity Rule in conjunction with the Metropolitan Planning Regulations direct transportation plans and program development as well as the conformity process.

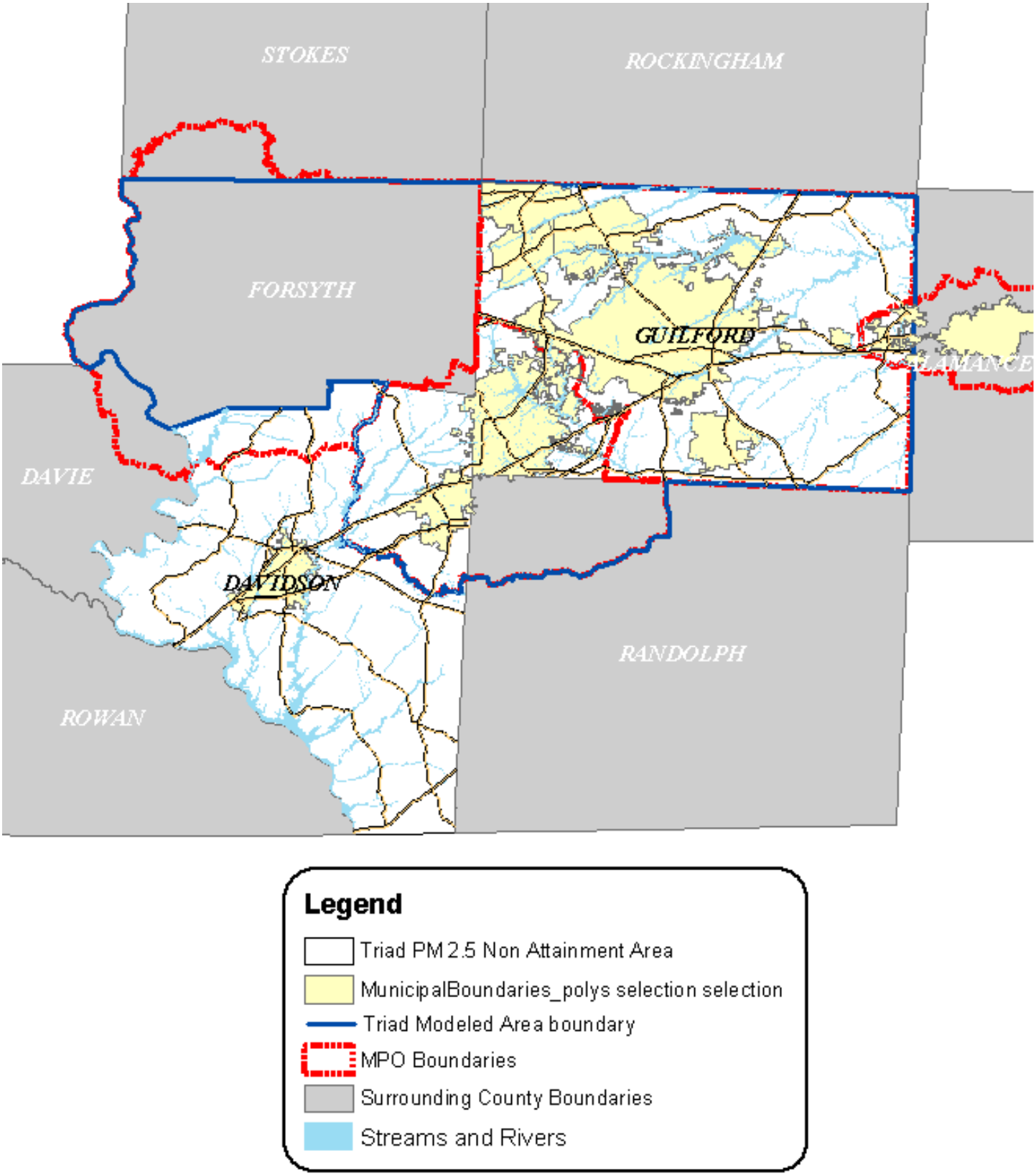
The purpose of this report is to comply with the provisions of the Clean Air Act Amendments of 1990, the Transportation Equity Act for the 21st Century (TEA-21) of 1998 and the Safe Accountable Flexible Efficient Transportation Equity Act-Legacy for Users (SAFETEA-LU). This report demonstrates that the activities resulting from the implementation of the fiscally constrained long-range transportation plans (LRTPs) and the transportation improvement programs (TIPs) will not "cause or contribute to any new violation of any standard in any area, increase the frequency or severity of any existing violation of any standard in any area, or delay timely attainment of any standard or any required interim emission reductions or other milestones in any area." The following jurisdictions apply:

- The portion of Guilford County within the Burlington-Graham Urban Area Metropolitan Planning Organization (BGMPO)
- The portion of Guilford County within the Greensboro Urban Area Metropolitan Planning Organization (GUAMPO)
- The portions of Guilford and Davidson Counties within the High Point Urban Area Metropolitan Planning Organization (HPMPO)
- The portions of Davidson County within the Winston-Salem Urban Area Metropolitan Planning Organization (WSMPO)
- The portions of Davidson County outside the MPO boundary that are in the Triad PM2.5 Non-Attainment Area.

This conformity determination is based on a regional emissions analysis that uses the transportation network approved by the above-named Metropolitan Planning Organizations (MPOs) for the 2030 LRTPs, VMT and Speed input data developed by NCDOT, and emissions factors developed by the Forsyth County Environmental Affairs (FCEAD) in cooperation with the North Carolina Department of Environment and Natural Resources (DENR). The Triad non-attainment areas for Guilford and Davidson Counties for PM 2.5 are shown as a map on Figure 1.

All Federally funded projects in areas designated by the United States Environmental Protection Agency (USEPA) as air quality non-attainment or maintenance areas must come from a conforming long-range transportation plan and transportation improvement program (TIP). Triad MPOs affected by the PM designation are required by 40 CFR 51 and 93 to make a conformity determination on any adopted or amended fiscally constrained long-range transportation plan and related TIP. In addition, the United States Department of Transportation (USDOT), specifically, the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) must make a conformity determination on four MPO Plans in the Triad region and the related TIPs for the non-attainment and maintenance areas.

Figure 1. Triad Area PM 2.5 Non-attainment Areas



In order to assist the Triad Area in making a conformity determination on the adopted 2030 fiscally constrained long-range transportation plans, the following agencies shared leading roles composing substantial portions of this document:

Table 5. Agency Area Responsibilities

Agency	*Counties*
BGMPO	Guilford (part)
Greensboro MPO	Guilford (part)
High Point MPO	Guilford (part), Davidson (part)
Winston-Salem MPO	Davidson (part)
NCDOT	Davidson and Guilford
PART	Regional Coordination and Report Distribution

This analysis is consistent with the set of amendments to 40 CFR Part 93, published in the July 1, 2004 **Federal Register**, *Transportation Conformity Rule Amendments for the New 8-hour Ozone and PM2.5 National Ambient Air Quality Standards and Miscellaneous Revisions for Existing Areas; Transportation Conformity Rule Amendments: Response to Court Decision and Additional Rule Changes; Final Rule*, effective on August 2, 2004. Based on the regional emissions budget test and interim tests documented in this report, the following Transportation Plan conforms to the purpose of the North Carolina SIP:

- Greensboro Urban Area MPO 2030 LRTP & 2006-2012 TIP Projects
- High Point Urban Area MPO 2030 LRTP & 2006-2012 TIP Projects
- Winston-Salem Urban Area MPO 2030 LRTP & 2006-2012 TIP Projects
- Burlington-Graham Urban Area MPO 2030 LRTP & 2006-2012 TIP Projects
- Donut Portion of Davidson County 2006-2012 TIP Projects outside of MPOs

This report documents the regional emissions budget test, the interim emissions test, interagency consultation process, public involvement process, and analysis methodology used to demonstrate transportation conformity for each MPO and the donut portion of each county outside the MPOs.

40 CFR Part 93 requires that a conforming transportation plan satisfy five conditions:

- The transportation plan must be consistent with the motor vehicle emissions budget(s) in an area where the applicable implementation plan or implementation plan submission contains a budget (*40 CFR Part 93.118*).
- The transportation plan, TIP, or FHWA/FTA project not from a conforming plan must provide for the timely implementation of TCMs from the applicable implementation plan (*40 CFR Part 93.113b*).
- The MPO must make the conformity determination according to the consultation procedures of *40 CFR Part 93.105* and the implementation plan revision required by *40 CFR Part 93.390* (*40 CFR Part 416*).
- The conformity determination must be based on the latest emissions estimation model available (*40 CFR Part 93.111*).
- The conformity determination must be based on the latest planning assumptions (*40 CFR Part 93.110*).
- The transportation Plan, TIP, or FHWA/FTA project must meet the interim emissions tests where applicable *(40 CFR Part 93.119)*.

This report shows that the MPOs 2030 Transportation Plan and the TIP in the donut area outside of the MPO meets each condition. Each condition is discussed in the following sections of this report.

2 Air Quality Planning

USEPA designated Guilford, Davidson and Catawba Counties non-attainment areas for the PM2.5 Fine Particle National Air Quality Standards on January 5, 2005. Fine particle pollution is a mixture of microscopic solids and liquid droplets suspended in air. Fine particles can be emitted directly (such as smoke from a fire) or formed in the atmosphere from power plant, industrial and mobile source emissions of gases such as sulfur dioxide and nitrogen oxides. Fine particles less than or equal to 2.5 micrometers in diameter (called PM2.5 and measuring about one-thirtieth the diameter of an average human hair) pose the greatest risk. These particles can get deep into the lungs, and some may even get into the bloodstream. States and tribes with designated non-attainment areas must submit plans that outline how they will meet the $PM_{2.5}$ standards. Areas are required to attain clean air as soon as possible but no later than 2010. EPA may grant attainment date extensions of up to five years in areas with more severe $PM_{2.5}$ problems and where emissions control measures are not available or feasible. The USEPA direct final rule for PM 2.5 is provided in Appendix A.

2.1 Emissions Baseline

NCDOT performed less than the base year (2002) analysis as the interim emissions tests for PM2.5 and NOx. SIPs for the PM2.5 non-attainment areas have not yet been submitted by the State. Therefore, in the areas of the Triad non-attainment area (Davidson and Guilford Counties), future long range transportation plan and TIP emissions can not be compared to a budget, but are instead compared to emissions estimated from Travel Demand and Rural spreadsheet models for the 2002 baseline year. The following requirements have been addressed as part of this conformity determination. Section 4 of this report provides these comparisons.

3 Long Range Transportation Plans

The *2030* Transportation Plans were developed between 2004 and 2005. Federal law *40 CFR part 93.104(b)(3)* requires a conformity determination on transportation plans no less frequently than every three years. As required in *40 CFR 93.106*, the horizon years for the transportation plan are no more than ten years apart.

The BGMPO includes a small portion of eastern Guilford County. The GUAMPO includes the majority portion of Guilford County. The HPMPO includes a southeast portion Guilford County and the northwest portion of Davidson County. WSMPO includes a small portion of north Davidson County. The remaining portions of the non-attainment area are rural areas of Davidson County west outside the MPO boundaries.

3.1 Consultation

The 2030 Transportation Plan is consistent with consultation requirements discussed in *40 CFR 93.105.*

Consultation on the development of this conformity determination was accomplished through interagency consultation meetings held on July 12, 2005, August 31, 2005 and September 19, 2005. A copy of the agenda, summary of the topics discussed, and a list of the attendees at each of these meetings is included in Appendix C.

3.2 Financial Constraint Assumptions

The Transportation Plans are fiscally constrained as discussed in *40 CFR 93.108*. The Greensboro Urban Area MPO, High Point Urban Area MPO, Winston-Salem Urban Area MPO and Burlington-Graham Long-Range Transportation Plans are fiscally constrained to the year 2030. All projects included in the current 2006-2012 TIP are fiscally constrained, and funding sources have been identified for construction and operation. The estimates of available funds are based on historic funding availability and include federal, state, private, and local funding sources. Additional detail on fiscal constraint is included in each MPO's long-range transportation plan. It is assumed that the projects listed for each horizon year will be completed and providing service by the end of the indicated calendar year (December 31). These transportation networks are described in the respective 2030 Long-Range Transportation Plans. They are also described in greater detail in Appendix D.

3.3 Latest Planning Assumptions

The 2030 Transportation Plans were developed with the latest planning assumptions as discussed in *40 CFR 93.110.* The Piedmont Travel Demand Model was developed by NCDOT for the urbanized portion of the Triad non-attainment area. The MPOs provided housing, employment, and population projections, and a set of highway and transit projects consistent across jurisdictional boundaries was developed through regional MPO coordination. Additional detail on these planning assumptions is provided below. The conformity analysis began on 10/27/05. This date was defined through interagency consultation process and documented in the conformity process schedule provided in Appendix C.

Land use and demographic data were collected by regional planning agencies and staff members of BGMPO, GUAMPO, HPMPO and WSMPO. A regional methodology was agreed upon that included updating residential and employment data to the end of 2002, and preparing growth forecasts to 2030.

Residential data included population, dwelling units, households, median income and university-related group quarters population (dormitories, fraternities and sororities). Residential data was based on Census 2000 data from Summary File 1, except that median income data was based on the Census Transportation Planning Package part 1.

Forecasts were prepared by local planning department staff with guidance from staff at the four MPOs. A regional methodology was applied to maintain consistency between residential and employment forecasts and adopted land use plans. Data and forecasts were submitted for public review by each MPO, and adopted for use in developing travel demand and air quality forecasts by each MPOs Transportation Advisory Committee.

The Triad Regional Travel Demand Model (TDM) uses the basic four-step process (trip generation, trip distribution, mode choice and assignment). All four steps of the process are discussed in greater detail in the sections below.

The Triad Regional Model's TRANPLAN model was developed Transportation Planning Branch and is housed at NCDOT. The TRANPLAN model covers the contiguous boundaries of Guilford and Forsyth Counties (including the portions within the BG MPO) and a portion of Davidson County (including the portion within the HPMPO, and WSMPO).

Outside of the modeled area, NCDOT utilizes a spreadsheet that incorporates the vehicle-miles traveled (VMT) universe file and historical trends to project the VMT in future years at the county level. The

spreadsheet calculates speed based on a model originally developed by the Texas Transportation Institute (TTI) but modified by NCDOT. Speeds generated by the spreadsheet are incorporated into the MOBILE6.2 emissions program. Then, emission factors developed by MOBILE6.2 are imported into the spreadsheet and multiplied by forecasted VMT to generate emissions. The rural spreadsheet model is used for the rural area of Davidson County and is factored based on population percentage for those portions of non-attainment counties not covered by the TRANPLAN model. This methodology has been used to demonstrate conformity in other areas and has received approval from interagency partners.

There are no court orders or special agreements that apply to conformity (*40 CFR 93.109)*.

3.4 Future Year Roadway Projects

Roadway improvements used for conformity modeling were developed in the 2030 Transportation Plan process in each MPO. Outside of the MPO boundaries, TIP projects from the 2006-2012 TIP served as the future year roadway projects. For the 2030 Plans, lists of needed projects were developed based on modeled congestion and identified local needs. Improvements were coded into the TDM and analyzed. Intermediate analyses for the years 2014, and 2020 were performed to assist in prioritizing the 2030 roadway needs. The output data from year 2002 and 2014 network were used to interpolate the 2010 transportation data. The final transportation year network data for 2010, 2020, and 2030 are fiscally constrained. Projects were added from MPO priority lists until estimated project costs equaled the expected funding available. In the air quality analysis, the base network (2002) and the three future networks (2010, 2020, and 2030) were used for the conformity determination are the same as the networks used for the 2030 Long Range Transportation Plans. The Throughout the process to develop the roadway networks, the MPOs and NCDOT identified any initial inconsistencies in project timing and characteristics (e.g. cross-section) for those projects crossing jurisdictional boundaries and reached consensus on consistent solutions.

Figure 2. Regional Significance

The following criteria is used to identify major existing and future regional roadway systems that may produce significant impacts to air quality emissions with respect to the Triad region.

<u>Regional Significance Criteria</u>

1. The facility serves regional transportation needs (i.e. facilities that provide access to and from the region or that provide access to major destinations in the region);
2. The facility is functionally classified higher than a minor arterial (minor arterials may be regionally significant if their main purpose is to provide access to major facilities in the region);
3. The facility is a fixed guideway transit facility; and
4. The facility is included in the travel model for the region (In many cases collector streets are modeled that are not regionally significant).

To be regionally significant a facility should meet one or more of the criteria in this checklist. 40 CFR Part 93.101

Appendix D includes lists of the future year roadway projects in the Triad area as indicated below, including indications of which projects are regionally significant and which projects are exempt. There are no future roadway projects within the portion of Guilford County and theBurlington-Graham MPO, therefore no list of projects is included.

Table 6. MPO Roadway Projects List (Appendix D)

Area	Transit Project List
Greensboro Urban Area MPO	2030 LRTP & Exempt Projects
High Point Urban Area MPO	2030 LRTP & Exempt Projects
Winston-Salem Urban Area MPO	2030 LRTP & Exempt Projects
Burlington-Graham MPO	No future year projects in 2030 LRTP or its TIP subset
Guilford County	2006-2012 TIP Projects
Davidson County (Donut portion)	2006-2012 TIP Projects
Forsyth County	2006-2012 TIP Projects

The exempt projects listed in Appendix D, both highway and transit, will serve as the Long Range Transportation Plans (LRTPs) for the region in the event of a conformity lapse. A conformity lapse is when an area develops a LRTP that does not pass the conformity test. The TAC must adopt a LRTP of exempt projects (*40 CFR 93.126, 127 & 128*) that will serve as the LRTP/TIP for the area in the event of conformity lapse. This will allow exempt projects to receive federal funding. A planning lapse is when an area has missed their required LRTP update date. During a planning lapse new Federal aid funds are stopped for all projects **INCLUDING** exempt projects (*40 CFR 93.126, 127 & 128*).

3.5 Transit Networks

As with the roadway projects, each MPO developed transit projects for its LRTP. The base year network was modeled from existing routes and fares for the transit systems in 2002. Future year networks were based on fiscally-constrained projected new or expanded services from regional transit plans, local bus system short range plans, corridor transit plans and other projected bus service expansion estimates, where available. As with the roadway networks, the MPOs and NCDOT identified and rectified any initial inconsistencies in project characteristics or implementation years where transit projects crossed jurisdictional boundaries.

Table 7. MPO Transit Project List (Appendix D)

Area	Transit Project List
Greensboro Urban Area MPO	2030 LRTP & Exempt Projects
High Point Urban Area MPO	2030 LRTP & Exempt Projects
Winston-Salem Urban Area MPO	2030 LRTP & Exempt Projects
Burlington-Graham MPO	No future year projects in 2030 LRTP or its TIP subset
Guilford County	2006-2012 TIP Projects
Davidson County (Donut portion)	2006-2012 TIP Projects
Forsyth County	2006-2012 TIP Projects

3.6 Congestion Mitigation/Air Quality (CMAQ) Projects

The NC Department of Transportation has established an allocation and review process for CMAQ projects. Each MPO and RPO in a non-attainment or maintenance area receives an allocation of CMAQ funds based on population and air quality status. In addition, a statewide pool of CMAQ funds will be allocated to projects serving more than one non-attainment area on a competitive basis. MPO and RPO project priorities and project applications for statewide funding. This conformity report includes a listing of funded CMAQ projects in the Triad Area in Appendix E, for those projects within the non-attainment area for PM2.5.

3.7 Trip Generation

Trip generation is a module of the TDM performed using the NCDOT's Internal Data Summary (IDS) program. "IDS" is a regression type trip generation model that estimates trip productions using five housing classifications per analysis zone and one trip rate per housing classification. Housing Classifications have been updated from 1994 surveys and projected from the applied 2000 census data.

The travel behavior survey was used to determine where the trips would be 'attracted to'. Regression coefficients were developed for industrial, retail, highway retail, office and service employment, as well as total dwelling units. Trip attractions are estimated based on the number and type of employees in an analysis zone and the number of commercial vehicles garaged in the analysis zone.

The Triad Regional Travel Demand Model uses four urban and rural trip purposes: home based work (HBW), home based other (HBO), and non-home-based (NHB), external-internal (EI), truck (TK), and external-external (EE) or through trips. Productions and attractions are individually constrained with productions balanced to match attractions by both IDS and later in the gravity model. For the latest model, more extensive data gathering and analysis was conducted by the MPOs and NCDOT to include home based shopping (HBSH) into the home-based other (HBO) rip purpose.

Several employment types were identified as special generators for the Triad Region. This classification was based on employment centers that exhibited unique trip attraction characteristics as demonstrated by the travel behavior survey data. Universities, regional shopping centers, regional hospitals and the PTI airport were all identified as special generators. Special generator rates were developed for those groups. Trip tables were also built for commercial vehicles

3.8 Trip Distribution

The TDM uses a standard gravity model to distribute trips. The model builds zone-to-zone trip tables (by purpose) using a weighted-sum of travel time and distance. For assignment purposes the individual trip tables are aggregated into a single trip table for each LRTP analysis year (2002, 2014, 2020, and 2030).

3.9 Mode Choice and Transit Assignment

The TRANPLAN travel model for the Triad does not have a Mode Choice component.

3.10 Highway Assignment and Vehicle Miles Traveled

Once the total number of trips has been determined, and the mode by which the trip is made has been chosen, the trips are assigned to the network. For the TDM, this is done using an equilibrium loading. In an equilibrium loading, trips are loaded in a series of "All or Nothing" loading iterations (which identifies the shortest travel time path) After each 'all or nothing' loading, travel times are recalculated. This process continues until the network is in equilibrium. The network is considered to

be in equilibrium when further travel time reductions for an individual traveler cannot be achieved by changing the selected path. To better capture the effects of congestion, the Triad model was loaded separately for the a.m., p.m. and off-peak time periods. Peak periods are 4-hour periods.

3.11 Method of Reporting VMT and Speed

The Triad Regional Travel Demand Model was developed in 1994, then updated in 2004 with 2002 ground counts and projected to 2004 model counts using an equilibrium loading method. This method assigns vehicle trips based on equalizing the capacity on the network links. After the vehicle trips are assigned, the TDM must be separated by designated non-attainment region to be analyzed independently.

For each designated non-attainment area, the TDM has the capability to provide daily VMT and Speed output for each fiscally constrained analysis year network corresponding to programmed TIP construction projects and post year construction projects. VMT and average speeds by functional classification derived directly from model link data are essential inputs required to the run the MOBILE6.2 emissions model. The fiscally constrained year networks are used as inputs into a link analysis tool called "Truspeed". "Truspeed" is a post processor that calculates link travel speeds based on assigned traffic volume, number of through lanes, and number of signals per mile. “Truspeed” is based on Chapters 3 and 11 of The Highway Capacity Manual. Truspeed calculates and aggregates the vehicle miles traveled (VMT) and travel speeds by functional classification for each analysis year network.

Since the TDM transportation networks are in NAD83 meters, the Truspeed travel units were in vehicle kilometers of travel (VKT), but then converted to vehicle miles of travel (VMT). All VMT and Speed data used in the conformity determination are from the last iteration of the TDM. The VMT for each functional class is then multiplied by emissions factors from the MOBILE6.2 model (See Appendices F& H) to determine the total emissions for each fiscally constrained network year. The VMT ands Speed data summary are found in Appendix G.

3.12 Emissions Analysis for Davidson County portion outside the Travel Demand Model (also called Rural Analysis)

This portion of the report describes the emissions analysis for the portion of Davidson County outside the Travel Demand Area and uses the transportation plan approved for the donut portion of Davidson County which is the 2006 – 2012 Transportation Improvement Program for Davidson County, and the emissions factors developed by the North Carolina Department of Environment and Natural Resources (NCDENR), as detailed in Appendix F. The analysis documented in this report covers the donut portion of Davidson County outside the High Point Urban Area Metropolitan Planning Organization (MPO).

The emissions from this analysis are combined with emission from the modeled portion of Davidson County and compared to the total budget for Davidson County non-attainment area.

The donut portion of Davidson County’s future transportation system includes all fiscally constrained transportation improvements to be implemented by 2030. The system is composed of the existing transportation network plus all projects in the 2006-2012 Transportation Improvement Program for the area.

An initial interagency consultation meeting for this analysis was held on *July 12, 2005*. Representatives from the North Carolina Department of Transportation (NCDOT), NCDENR, Environmental Protection Agency (EPA), and the Federal Highway Administration (FHWA) were physically present at these meetings. The Federal Transit Administration (FTA) participated by video and/ or conference call. Documentation of this meeting and all agency comments are included in Appendix C.

3.12.1 Financial Constraint

The Davidson County Transportation Improvement Program is fiscally constrained to the year 2012. The programmed funds include federal and state funding sources. The transportation networks assumed in each analysis year are balanced with available funds. These transportation networks are described in detail in Appendix D.

3.12.2 Latest Planning Assumptions

The 2010 Davidson County transportation plan was developed with the latest planning assumptions as discussed in 40 CFR Part 93.110. The transportation plan for the donut portion of Davidson County is the 2006 – 2012 Transportation Improvement Program. Refer to Section 5 for explanations of speed estimates and Appendix H for a summary by horizon year. There are no court orders or special agreements that apply to conformity in the Davidson County (40 CFR Part 93.109).

3.12.3 Future Year Roadway Networks

The future year roadway networks used in the conformity analysis were developed by adding the 2006 - 2012 Transportation Improvement Program projects to the existing roadway network in the appropriate horizon years.

3.12.4 Vehicle Miles Traveled (VMT) and Estimation Procedures for Davidson County

The Transportation Planning Branch of the NCDOT provides the VMT for Davidson County. The 1992-2003 VMT data is expressed as Daily Vehicle Miles of Travel (DVMT). This data is based upon the Annual Average Daily Traffic (AADT) in universe file. The annual Highway Performance Monitoring System (HPMS) VMT reported to the Federal Highway Administration (FHWA) is derived from a subset of the universe file. North Carolina records AADT data for all roads in all functional classifications. However, only 73.8% of the local functionally classed road mileage were covered by actual counts. For links without counts, an Average Daily Traffic (ADT) count of 400 vehicles per day was assumed.

The projection of VMT was based on trend line using an ordinary least squares linear regression extrapolation of a 10-year period 1995-2004 for Davidson County. The total VMT, including rural and urban road types, was used to perform statistical analysis. This approach will compensate for the reclassification of VMT from year to year due to the expansion of urbanized boundaries or other reasons. Therefore a regression analysis was performed to determine the correlation of data and predicted VMT values for the specific years of interest. Finally, 2004 VMT by functional classes (using the ratio of each functional class's VMT to the total VMT) was used to disaggregate of projected VMTs. Results were evaluated for reasonable growth and consistency. This VMT projection methodology was based on the EPA document Section 187, VMT Forecasting and Tracking Guidance, January 1991. This task was completed by August 31, 2005. Table 8 provides a summary of vehicle miles traveled for each horizon year.

Table 8: Forecast of the Vehicle Miles Traveled for the Donut Portion of Davidson County

Horizon Year	Daily VMT	Population	Employment
2002[1]	2,881,770	103,137	50,000
2010	3,319,110	109,198	62,350
2020	3,861,540	117,432	76,004
2030	4,403,980	123,921	92,649

3.12.5 Emissions Results

The results of the emissions analysis for each pollutant are shown in Table 9 below. NCDENR provided the emissions factors used in this analysis.

Table 9: Daily PM 2.5 and NOx Emissions:

Year	PM 2.5 (kg/day)	NOx (kg/day
	Donut portion of Davidson Co	Donut portion of Davidson Co
2002	**163**	**9523**
2010	**94**	**5116**
2020	**59**	**1953**
2030	**62**	**1164**

3.12.6 Method of Calculating Speed

Volume/delay relationships are based on the speed model originally developed by the North Central Texas Council of Governments (NCTCOG) for the Dallas/Fort Worth area and used for El Paso County (Texas Transportation Institute [TTI] Research Report 1375-5) and the Jefferson-Orange-Hardin Regional Transportation Study (JOHRTS) (TTI Research Report 1375-6). Speed is a function of roadway capacity and traffic volume. Speed estimates are developed using the hourly volumes and capacities by roadway functional classification, along with free flow speeds derived from the three speed studies in Mecklenburg County, the Triad, and Wake County. Off-peak speeds from each study were used since the free flow speeds represent the uncongested speeds on the facilities. Total capacity for a road type is assumed to be the per lane capacity times the number of lanes. Signals, grades, heavy vehicles, and a number of other factors are assumed to be at the midpoint of the Highway Capacity Manual typical ranges.

The TTI method uses the following equations in Figure 2 to estimate speed.

- Delay: congestion delay (in minutes/mile);
- A & B: volume/delay equation coefficients;
- M: maximum minutes of delay per mile;
- V/C: time of day directional V/C ratio
- For C>3,400: A=0.015, B=3.5 and M=5.0

- For C<3,400: A=0.050, B=3.0 and M=10

$$Delay = Min\left[Ae^{B\left(\frac{V}{C}\right)}, M \right]$$

$$\text{Congested speed} = \frac{60}{\left[\frac{60}{Freeflow\ Speed}\right] + Delay}$$

3.12.7 Capacity

Total capacity for a functional classification is determined by multiplying the per lane capacity times the number of lanes. The number of lanes is calculated by dividing lane miles by centerline miles. The capacity in the delay equations represents level of service E. Based on Highway Capacity Manual, capacities for all facility types range from about 200 passenger cars per lane per hour to over 2300 passenger cars per lane per hour. Signals, grades, heavy vehicles, and a number of other factors are assumed to be at the midpoint of the Highway Capacity Manual typical ranges, in order to develop the capacities in Table 10.

Table 10: Capacity by Functional Class:

Functional Class	Capacity (passenger cars per lane per hour)
Urban Interstate	2200
Urban Expressway	2100
Urban PA	670
Urban Minor Arterial	620
Urban Collector	560
Urban Local	340
Rural Interstate	2200
Rural PA	1000
Rural Minor Arterial	920
Rural Major Collector	840
Rural Minor Collector	670
Rural Urban Local	500

3.12.8 Free flow Speed

Free flow speed is the speed at which the average vehicle will travel on a facility without the influence of other vehicles. The rural spreadsheet deals with the uncongested conditions, i.e. level of service A. Over the past five years NCDOT and the MPOs, have performed speed studies in Mecklenburg County, the Triangle, and the Triad. While the data was collected by differing methods and at different times, the data agrees generally. Given that free flow speeds are supposed to represent the uncongested speeds on the facilities, NCDOT has chosen to work only with the off-peak speeds from each travel time study. Table 11 shows the off-peak speeds reported in each study.

Table 11: NC Regional Area Free Flow Speeds

Functional Class	Mecklenburg	Triangle	Triad	Avg.
Urban Interstate	62.7	62.8	65.2	64
Urban Expressway	50.8	60.6	58.5	57
Urban PA	30.9	31.9	27.8	30
Urban Minor Arterial	28.7	34.0	36.3	33
Urban Collector	34.8	33.5	28.7	32
Urban Local	36.9	36.9	23.5	32
Rural Interstate	67.0	67.2	67.7	67
Rural PA	47.0	42.4	54.0	48
Rural Minor Arterial	40.8	52.8	43.8	46
Major Collector	42.3	45.7	46.9	45
Minor Collector	41.7	43.6	47.6	44
Rural Local	42.2	42.2	47.6	44

4 Interim Emissions Test

Baseline and action scenarios were developed to use in the emissions tests. The Baseline and action scenarios were agreed to through the interagency consultation process. The Baseline scenario is the set of highway, transit, pedestrian/bicycle and travel demand management facilities and services, and accompanying socioeconomic conditions, in place as of December 2002. The Baseline scenario includes the 2002 highway and transit networks as described in the previous section. The action scenarios include all of the Baseline scenario components, plus those facilities and services resulting from implementation of the transportation plans in each analysis year, 2010, 2020 interim years and the 2030 horizon year.

One county in the non-attainment area is completely within the TDM boundary (Guilford County). (Portions of Davidson County are outside of the TDM boundary).

4.0.1 Emissions analysis source

VMT and speeds for the emissions analysis will be derived from the TDM where it is available. VMT and speeds for the area outside of the TDM for Davidson County will come from the NCDOT rural spreadsheet.

4.0.2 Emission comparison years

Emissions must be calculated for a baseline year (2002), an interim year not more than 5 years from the year in which conformity is determined for areas without budgets (i.e., within 5 years if 2006) and at further intervals not exceeding 10 years, including the LRTP's horizon year (2030). Proposal: the entire area will be analyzed for 2002 baseline, 2010 (LRTP intermediate year/also attainment year), 2020 (LRTP intermediate year) and 2030 (LRTP horizon year).

The following is a list of Specific Conformity Years (PM2.5):

a. Baseline: 2002
b. Horizon: 2030

In summary, the entire area was analyzed for 2002 baseline, 2010 and 2030 (LRTP intermediate years), and 2030 (LRTP horizon year).

Table 12. Triad Area Transportation Conformity Analysis Matrix

Triad PM2.5 Non-Attainment Area Transportation Conformity								
					Emission Comparison Years			
County	**Area model status**	**Area emissions budget**	**Conformity Test**	**Emission Analysis Source**	**2002[1]**	**2010**	**2020**	**2030**
Davidson	modeled area	No budget	Interim emission test	TDM	✔	✔	✔	✔
Guilford	modeled area	No budget	Interim emission test	TDM	✔	✔	✔	✔
Davidson	donut area	No budget	Interim emission test	rural spreadsheet	✔	✔	✔	✔

[1] 2002 shall be used as the baseline year since no budgets are established for PM 2.5 emissions comparison.

Note: Areas without budgets must have one analysis year within 5 years of the conformity determination (which will occur in 2006). No area will have a gap larger than 10 years. The baseline and horizon years must be analyzed.

Area: The non-attainment area of Guilford County is within the TDM boundary. Davidson County has a part within the modeled area and a part outside of the modeled area.

The use of different analysis methods in different parts of the non-attainment area does not preclude future unified conformity efforts in the region.

4.1 Emissions Model

MOBILE6.2 was used to develop the emissions factors. Motor vehicle emission controls considered in the MOBILE6.2 model include the following:

Control Strategies: Emission reduction credits will be taken for the following on-road mobile SIP commitments or Federal programs.

Strategy	**Methodology/Approach**
I/M Program	*Accounted for in MOBILE6.2 model*
Tier 2 vehicle's Emission Standards	*Accounted for in MOBILE6.2 model*
Low Sulfur Gasoline and Diesel fuels	*Accounted for in MOBILE6.2 model*
Heavy Duty Vehicle Rules 2004 and 2007	*Accounted for in MOBILE6.2 model*
Low RVP Gasoline	*Accounted for in MOBILE6.2 model*
On board vapor recovery	*Accounted for in MOBILE6.2 model*

Also, area specific information is used for such items as vehicle age distribution and vehicle type distribution rather than national default values, as documented below.

4.2 Development of Emissions Factors

A critical element of any emissions analysis or estimate is the development and utilization of the emissions factors applied to the travel estimates. FCEAD provided emission factors under the guidance of NCDAQ and NCDOT. NCDOT provided model inputs (both Speed & VMT) for each PM 2.5 non-attainment area tested. The MOBILE 6.2 emissions factor model was used to develop the emissions factors in October 2005 Guilford and Davidson Counties. These factors are shown in Appendix F.

FCEAD provided motor vehicle emissions factors by federal functional classification of the roadway system. In addition the percentage of motor vehicles subject to the inspection and maintenance program is estimated from current accident data. The scope of North Carolina's motor vehicle inspection and maintenance program is set to expand from nine counties to forty-eight counties by 2007. The phasing in of the I&M program is reflected in Table 13.

Table 13. Percentage of Vehicles Subject to Inspection and Maintenance Programs

Location	2002	2010-2030
Davidson County	0%	95%
Guilford County	76%	94%

4.3 Development of VMT Mix by Vehicle Type

The North Carolina Department of Transportation (NCDOT) provides the VMT and average speed for six urban and six rural road types for each analysis year (See Appendix G); vehicle mix data are available for the same road types. Automatic traffic recording stations and selected Highway Performance Monitoring System (HPMS) locations were used and counts taken throughout 1999 - 2001 are used to determine the percentage of vehicles, by vehicle type, for various road types. Vehicle classification data was used in conjunction with Mobile6 default vehicle mix to estimate fleet distribution by functional class. The calculation follows the August 2004 USEPA Guidance. The final numbers reflect the change in the mix (i.e. increase in the number of SUVs and pick-ups) for each year using Mobile6 projection and variation of mix across the different road type using NC data. This reflects 16 vehicle classes per road type.

4.4 Vehicle Age Distributions

The vehicle age distribution is based on the North Carolina Department of Motor Vehicles' 2002 (DMV) registration records for the in-use fleet in the Guilford and Davidson Counties. DMV provided the information. The data was modified and arranged to comply with Mobile6.2

4.5 Transportation Control Measures

There is no transportation control measures pertaining to the Triad Area.

4.6 Comparison Test by Location and Pollutant

The non-attainment designation covers the following geographic areas:

- Davidson County
- Guilford County

Five organizations are responsible for conformity determinations; each must make a conformity determination for its respective area in order for all of the areas to be designated in conformity:

- Burlington-Graham MPO
- Greensboro Urban Area MPO
- High Point Urban Area MPO
- Winston-Salem Urban Area MPO
- NCDOT (donut area of Davidson outside of the MPO area boundary)

For this report, emissions were calculated and reported at the County level. 40 CFR Part 93.106 requires that transportation emissions be estimated at, minimum, ten-year intervals beginning with the base year of the travel demand model. Refer to Table 12 earlier in this section for details on emission budgets and comparison years. Table 12 summarizes the emissions test used and decision-making responsibility for conformity findings in each County.

Table 14. Emissions Test and Responsibility for Conformity Findings

Location	Pollutant(s)	Emissions Test	Conformity Finding Responsibility
Davidson County	*PM 2.5 & NOx*	less-than-baseline	High Point Urban Area MPO Winston-Salem Urban Area MPO (In consultation with Piedmont Triad RPO)
Guilford County	*PM 2.5 & NOx*	less-than-baseline	Greensboro Urban Area MPO High Point Urban Area MPO Burlington-Graham MPO

The results of the emission comparisons are summarized by County in Tables 15 through 16. Detailed emissions analysis results by county are contained in Appendix H.

Table 15. Davidson County Emissions Comparison Summary *(kg/day)*[1]

	PM2.5			NOx		
Year	**MPO Portions**	**Donut Portion**	**County Total**	**MPO Portions**	**Donut Portion**	**County Total**
2002[2]	72	163	235	4,155	9523	13,678
2010	43	94	137	2,288	5116	7,404
2020	28	59	87	872	1953	2,825
2030	31	62	93	565	1164	1,729

Table 16. Guilford County Emissions Comparison Summary *(kg/day)*[1]

	PM2.5			NOx		
Year	**Model**	**Off-Model**	**Comparison**	**Model**	**Off-Model**	**Comparison**
2002[2]	643	3	640	38,863	251	38,612
2010	393	3	390	18,758	142	18,616
2020	225	3	222	6,684	105	6,579
2030	246	3	242	5,105	41	5,064

[1] To obtain tons per day, divide kilograms per day by 907.1847
[2] Baseline year.

5 Public Involvement and Interagency Consultation

The 2030 Transportation Plans are consistent with consultation requirements discussed in *40 CFR 93.105.* Interagency consultation was a cooperative effort on the part of the Burlington-Graham MPO, the Greensboro Urban Area MPO, the High Point Urban Area MPO, the Winston-Salem Urban Area MPO, the Piedmont Triad Area RPO, the North Carolina Department of Transportation and the Federal Highway Administration. The process was administered by the Piedmont Authority for Regional Transportation (PART) on behalf of the partners and was organized according to the sections in the document titled *Triad Region Transportation Conformity:*

> *Pre-Analysis Consensus Plan, a document agreed to at the initial interagency consultation meeting on July 12, 2005 and updated periodically. Subsequent interagency consultation meetings were held on August 31, 2005 and September 19, 2005. A copy of the latest version of the Consensus Plan, written agency comments and agendas and summaries of the interagency consultation meetings are included in Appendix C.*

Public review of this report was handled in accordance with each MPO, PART and RPO public participation policy for Transportation Plans. Copies of all public participation policies are included in Appendix I. Comments from the general public participation process and interagency review are incorporated into the final Conformity Analysis and Determination Report. All written comments on the draft report from the general public and interagency review are included in Appendix J and Appendix K respectively of the final report.

6 Conclusion

Based on the analysis and consultation discussed above the following transportation plans and TIPs conform to the purpose of the North Carolina State Implementation Plan. In every horizon year for every pollutant in each geographic area, the emissions expected from the implementation of the long-range plans and TIPs are less than the emissions budgets established in the SIP or the baseline emissions where no SIP budget is available.

Table 17: Summary of Conformity Status of Triad Transportation Plans

Criteria (√ indicates the criterion is met)	**Burlington-Graham MPO 2030 LRTP & 2006-12 TIP***	**Greensboro Urban Area MPO 2030 LRTP & 2006-12 TIP***	**High Point Urban Area MPO 2030 LRTP & 2006-12 TIP***	**Winston-Salem Urban Area MPO 2030 LRTP & 2006-12**	**Davidson County Rural Area of the Triad 2006-12 TIP**
Less Than Emissions Budget(s) or Baseline	√	√	√	√	√
TCM Implementation	The NC SIP includes no Transportation Control Measures in the Triad Area				
Interagency Consultation	√	√	√	√	√
Latest Emissions Model	√	√	√	√	√
Latest Planning Assumptions	√	√	√	√	√
Fiscal Constraint	√	√	√	√	√

* The 2006-12 TIPs are subsets of the 2030 LRTPs: Appendix D.

In the final Air Quality Conformity Analysis and Determination Report, please refer to resolutions of conformity finding and approval in Appendix L, and conformity determination endorsement in Appendix B.

Appendix A: Triad PM 2.5 SIP Federal Register Notice

NEW YORK.—PM2.5—Continued

Designated area	Designation [a]	
	Date [1]	Type
attaraugus County	.....	Unclassifiable/Attainment.
hemung County	.....	Unclassifiable/Attainment.
chuyler County	.....	Unclassifiable/Attainment.
teuben County	.....	Unclassifiable/Attainment.
ompkins County	.....	Unclassifiable/Attainment.
y-Schenectady-Troy, NY:		
lbany County	.....	Unclassifiable/Attainment.
reene County	.....	Unclassifiable/Attainment.
lontgomery County	.....	Unclassifiable/Attainment.
ensselaer County	.....	Unclassifiable/Attainment.
aratoga County	.....	Unclassifiable/Attainment.
chenectady County	.....	Unclassifiable/Attainment.
choharie County	.....	Unclassifiable/Attainment.
o-Niagara Falls, NY:		
rie County	.....	Unclassifiable/Attainment.
iagara County	.....	Unclassifiable/Attainment.
County, NY:		
ssex County	.....	Unclassifiable/Attainment.
stown, NY:		
hautauqua County	.....	Unclassifiable/Attainment.
son County, NY:		
efferson County	.....	Unclassifiable/Attainment.
kkeepsie, NY:		
utchess County	.....	Unclassifiable/Attainment.
utnam County	.....	Unclassifiable/Attainment.
ester, NY:		
enesee County	.....	Unclassifiable/Attainment.
ivingston County	.....	Unclassifiable/Attainment.
onroe County	.....	Unclassifiable/Attainment.
ntario County	.....	Unclassifiable/Attainment.
rleans County	.....	Unclassifiable/Attainment.
ayne County	.....	Unclassifiable/Attainment.
use, NY:		
ayuga County	.....	Unclassifiable/Attainment.
adison County	.....	Unclassifiable/Attainment.
nondaga County	.....	Unclassifiable/Attainment.
swego County	.....	Unclassifiable/Attainment.

cludes Indian Country located in each county or area, except as otherwise specified.
is date is 90 days after January 5, 2005, unless otherwise noted.

In § 81334, the table entitled th Carolina.—PM25'' is added to the of the section to read as follows:

§ 81.334 North Carolina.

* * * * *

NORTH CAROLINA.—PM2.5

Designated area	Designation [a]	
	Date [1]	Type
sboro-Winston Salem-High Point, NC:		
avidson County	.....	Nonattainment.
uilford County	.....	Nonattainment.
y-Morganton-Lenoir, NC:		
atawba County	.....	Nonattainment.
of State:		
lamance County	.....	Unclassifiable/Attainment.
lexander County	.....	Unclassifiable/Attainment.
lleghany County	.....	Unclassifiable/Attainment.
nson County	.....	Unclassifiable/Attainment.

Appendix B: Conformity Determination Letter Endorsements

310 New Bern Avenue, Suite 410
Raleigh, North Carolina 27601

U.S. Department
of Transportation
**Federal Highway
Administration**

April 5, 2006

In Reply Refer To:
HDA-NC

Mr. Lyndo Tippett
Secretary
North Carolina Department of Transportation
Post Office Box 25201
Raleigh, North Carolina 27611-5201

Dear Secretary Tippett:

We reviewed the Conformity Determination Report (Triad PM 2.5 Non-attainment Area) for the Greensboro Metropolitan Planning Organization (MPO), the High Point MPO, the Burlington-Graham MPO, the Winston Salem Forsyth MPO 2030 Long Range Transportation Plans (LRTPs), the FY 2006-2012 Transportation Improvement Programs (TIPs) and projects from the FY 2006-2012 State TIP for the county donut area of Davidson.

The Greensboro MPO, the High Point MPO, the Burlington Graham MPO, the Winston Salem Forsyth MPO made conformity determinations on their adopted 2030 LRTPs and the FY 2006-2012 TIPs (the TIPs are subsets of the 2030 LRTP) and the North Carolina Department of Transportation (NCDOT) made a conformity determination on projects from the FY 2006-2012 State TIP for the county donut area of Davidson on the following dates:

- Greensboro MPO on January 25, 2006
- High Point MPO on January 24, 2006
- Burlington Graham MPO on January 17, 2006
- Winston Salem Forsyth MPO on January 19, 2006
- The NCDOT (for the donut area of Davidson County) on January 31, 2006

The Federal Highway Administration and the Federal Transit Administration have reviewed these documents. We have also coordinated our review with the Environmental Protection Agency (EPA) Region 4 and have enclosed their comments to this letter.

Celebrating 50 Years
1956 2006
Eisenhower Interstate System

BUCKLE UP AMERICA

Based on our review and the comments provided to us by the EPA, we find that the Greensboro MPO, High Point MPO, Burlington Graham MPO, the Winston Salem Forsyth MPO 2030 LRTPs, the FY 2006-2012 TIPs and projects from the FY 2006-2012 State TIP for the county donut area of Davidson conform to the purpose of the State Implementation Plan (or base year emissions, in areas where no State Implementation Plan is approved or found adequate by EPA) in accordance with 40 CFR Part 93.

Sincerely,

Yvette G. Taylor
Regional Administrator
Federal Transit Administration

Sincerely,

for John F. Sullivan III, P.E.
North Carolina Division Administrator
Federal Highway Administration

310 New Bern Avenue, Suite 410
Raleigh, North Carolina 27601

U.S. Department
of Transportation
**Federal Highway
Administration**

April 6, 2006

In Reply Refer To:
HDA-NC

Mr. Lyndo Tippett
Secretary
North Carolina Department of Transportation
Mail Service Center 1501
Raleigh, NC 27699

Dear Secretary Tippett:

Enclosed is the Triad Area PM 2.5 transportation conformity determination letter signed by the United States Department of Transportation (USDOT) for the Burlington Graham Metropolitan Planning Organization (MPO) 2030 Long Range Transportation Plan (LRTP), the Greensboro MPO 2030 LRTP, the High Point MPO 2030 LRTP, the Winston Salem Forsyth MPO 2030 LRTP, the FY 2006-2012 Transportation Improvement Programs (TIPs) and projects from the FY 2006-2012 State TIP for the donut area of Davidson County.

Based on our review and comments provided by the Environmental Protection Agency (EPA), the program was found to conform to the purpose of the State Implementation Plan (or base year emissions where no State Implementation Plan is approved or found adequate by EPA) in accordance with 40 CFR Part 93.

The USDOT conformity determination letter is dated April 5, 2006.

If you have questions or comments, please contact Mr. Eddie Dancausse at 919-856-4330, extension 112.

Sincerely Yours,

For John F. Sullivan III, P.E.
Division Administrator

Celebrating 50 Years
1956 50 2006
Eisenhower Interstate System

BUCKLE UP AMERICA

Enclosures

Cc: Keith Overcash, Director, Division of Air Quality, NCDENR
Deborah M. Barbour, Director of Preconstruction, Division of Highways, NCDOT
Kay Prince, Chief Air Quality Planning Branch, EPA Region 4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

MAR 2 0 2006

4APT-APB

John F. Sullivan III, P.E.
Division Administrator
North Carolina Division Office
Federal Highway Administration
310 New Bern Avenue, Suite 410
Raleigh, North Carolina 27601

Dear Mr. Sullivan:

Thank you for requesting our review of the transportation conformity determinations for the 2030 Long Range Transportation Plans (LRTPs) and the Fiscal Year (FY) 2006-2012 Transportation Improvement Program (TIPs) for Burlington-Graham, Greensboro, High Point, Winston Salem, and the donut area of Davidson County. This conformity determination is for the PM2.5 standard. We have completed our review, and recommend a finding of conformity for the PM2.5 standard for the 2030 LRTPs and the FY 2006-2012 TIPs for Burlington-Graham, Greensboro, High Point, Winston Salem, and the donut area of Davidson County.

On August 15, 1997, and subsequently on July 1, 2004, and May 6, 2005, U.S. Environmental Protection Agency (EPA) published revisions related to the "Criteria and Procedures for Determining Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Funded or Approved Under Title 23 U.S.C. or the Federal Transit Act," or Transportation Conformity Rule (40 Code of Federal Regulations Part 93). These revisions outline the criteria that must be met for the 8-hour ozone and PM2.5 standards. EPA has reviewed the conformity determinations related to the PM2.5 standard for the 2030 LRTPs and the FY 2006-2012 TIPs for the Burlington-Graham, Greensboro, High Point, Winston Salem, and the donut area of Davidson County, and has concluded that all of the criteria, including those outlined in the July 1, 2004, conformity rule revision entitled, "Transportation Conformity Rule Amendments: Conformity Amendments for New 8-hour Ozone and PM2.5 National Ambient Air Quality Standards, Response to March 1999, Court Decision and Additional Rule Changes," (69 FR 40004), and those outlined in the May 6, 2005, conformity rule revision entitled, "Transportation Conformity Rule Amendments for the New PM2.5 National Ambient Air Quality Standard: PM2.5 Precursors," (70 FR 24280), have been met.

Thank you again for the opportunity to review the conformity determinations for the 2030 LRTPs and FY 2006-2012 TIPs for the Burlington-Graham, Greensboro, High Point, Winston Salem, and the donut area of Davidson County. If you have any questions regarding this letter, please contact Ms. Amanetta Wood of the EPA Region 4 staff at (404) 562-9025.

Sincerely,

R. Scott Davis
Chief
Air Quality Modeling
and Transportation Section

cc: Eddie Dancausse, FHWA NC
Loretta Barren, FHWA NC
Heather Hildebrandt, NC DAQ
Alex McNeil, FTA Region 4

NCDENR
North Carolina Department of Environment and Natural Resources
Division of Air Quality

Michael F. Easley, Governor

William G. Ross, Jr., Secretary
B. Keith Overcash, P.E., Director

February 8, 2006

Mike Bruff, P.E.
Manager Transportation Planning Branch
NC Department of Transportation
1554 Mail Service Center
Raleigh, NC 27699-1554

Dear Mr. Bruff:

Thank you for forwarding the draft of the Conformity Analysis and Determination Report (dated December 15, 2005) for the Triad PM2.5 Non-attainment Area that covers Guilford and Davidson counties. The North Carolina Department of Environment and Natural Resources, Division of Air Quality (DAQ) has completed its review of the report and analysis.

The analysis that is provided in this report demonstrates that the projected emissions from the plans do not exceed the emissions limits established by the SIP (or base year emissions, in areas where no SIP has been approved or found adequate by EPA). The comparisons were completed for each of the appropriate analysis and milestone years for all counties. The report is very comprehensive and adequately addresses the details of the analysis. As all comments were adequately addressed, the Division of Air Quality believes this report contains the appropriate air quality information to support a conformity determination on the transportation plans for the Triad PM2.5 Non-Attainment Area.

In conjunction with the review that the Division of Air Quality performed on the Conformity Analysis and Determination Report, the DAQ also reviewed the 2006-2012 Transportation Improvement Programs for the counties in the Triad PM2.5 Non-attainment Area to assure consistency between the documents. All of the 2006-2012 Transportation Improvement Programs were compared to the plans included in the conformity analysis and appear to be a subset of those plans.

Thank you again for the opportunity to review this report. If you have any questions, you may contact Heather Hildebrandt of my staff at (919) 733-1498.

Sincerely,

B. Keith Overcash, P.E.

BKO:hjh

Cc: Behshad Norowzi, DOT
Laura Boothe, DAQ
Heather Hildebrandt, DAQ
Amanetta Wood, EPA
Alex McNeil, FTA
Eddie Dancausse, FHWA

1641 Mail Service Center, Raleigh, North Carolina 27699-1641
2728 Capital Blvd., Raleigh, North Carolina 27604
Phone: 919-733-1728 / FAX 919-733-1812 / Internet: www.ncair.org

One NorthCarolina Naturally

An Equal Opportunity/Affirmative Action Employer – 50% Recycled/10% Post Consumer Paper

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

January 31, 2006

Mr. John F. Sullivan III, Division Administrator
Federal Highway Administration
North Carolina Division
310 New Bern Avenue, Suite 410
Raleigh, North Carolina 27601

Dear Mr. Sullivan:

The North Carolina Department of Transportation finds that the transportation plan for Davidson County conforms to the intent of the Clean Air Act Amendments of 1990 and the Safe Accountable Flexible Efficient Transportation Equity Act-Legacy for Users (SAFETEA-LU) enacted August 10, 2005. The transportation plan is comprised of projects from the applicable sections of the 2006-2012 State Transportation Improvement Program (STIP) for Davidson County. This financially constrained transportation plan helps to eliminate or reduce violations of the national ambient air quality standards in Davidson County. The attached reports document the validity of the conformity finding for Davidson County and compliance with the conformity requirements of the North Carolina Code and 40 CFR Parts 51 and 93.

Please begin your agency's final review of this conformity finding and related documentation. We are requesting approval on or before April 5, 2006. If any of the federal reviewers have questions or comments regarding the basis of this conformity determination, please notify James Upchurch by e-mail at **jhupchurch@dot.state.nc.us** or Behshad M. Norowzi at **bnorowzi@dot.state.nc.us** of the Transportation Planning Branch at (919) 733-4705.

Sincerely,

Lyndo Tippett

Attachment

LT/jhu

PHONE 919-733-2520 FAX 919-733-9150

cc: Keith Overcash, Director, Division of Air Quality, DENR
Lee Daniel, PE, Division of Air Quality, DENR
Brock Nicholson, PE, Division of Air Quality, DENR
Heather Hildebrandt, PE, Division of Air Quality, DENR (w/attachments)
Sheila Holman, Division of Air Quality, DENR (w/attachments)
Eddie Dancausse, FHWA North Carolina Division (w/attachments)
Lynorae Benjamin, EPA Region 4
Alex McNeil, FTA Region 4
Craig Hughes, City of High Point (w/attachments)
Guy L. Cornman, III, Davidson County
Tammy Absher, City of Lexington
William R. Pless, Town of Denton
Scott Rhine, Piedmont Triad Council of Governments
Mike Bruff, PE Transportation Planning Branch, NCDOT
Greg Thorpe, PhD, Director, Project Development and Environmental Analysis Branch, NCDOT
Calvin W. Leggett, PE, Manager Program Development Branch, NCDOT
Wayne Davis, PE, Transportation Planning Branch, NCDOT
Behshad M. Norowzi, Transportation Planning Branch, NCDOT
Jamal Alavi, PE, Transportation Planning Branch, NCDOT

Appendix C: Interagency Consultation

Interagency Consultation

Triad Region PM2.5 Transportation Conformity: Pre-Analysis Consensus Plan

June 24, 2005 version

Edited to incorporate comments of IC meeting July 29, 2005

4 REVISED 10/19/05

Prepared Cooperatively Between the
Burlington-Graham Urbanized Area MPO
Greensboro Urbanized Area MPO
High Point Urbanized Area MPO
Winston-Salem Urbanized Area MPO
Piedmont Authority for Regional Transportation
North Carolina Department of Transportation
Piedmont Triad Rural Planning Organization
and the
Federal Highway Administration

Triad Region PM2.5 Transportation Conformity:
Pre-Analysis Consensus Plan
June 24. 2005

Triad Area (PM 2.5): Davidson County, Guilford County. There are four Metropolitan Planning Organizations (Burlington-Graham, Greensboro, High Point, and Winston-Salem), that are included within this Transportation Conformity. Also included is Davidson County, and the rural portions of Davidson county that are not included within an area MPO.

The Burlington-Graham Urbanized Area Metropolitan Planning Organization (BGMPO), Greensboro Urbanized Area MPO (GUAMPO), High Point Urbanized Area MPO (HPMPO), Winston-Salem Urbanized Area MPO (WSMPO), The Piedmont Authority for Regional Transportation (PART), and NCDOT (representing rural portions of the Triad non-attainment area) are proposing the following plan and procedures to conduct a transportation conformity analysis. This plan is being submitted to the interagency consultation partners for soliciting consensus before commencement of a full-scale transportation conformity analysis. The plans and procedures may be revised as the MPO's and NCDOT proceed with the analysis. After consensus is reached; notification of changes will be made to the interagency consultation partners.

Long Range Transportation Plan (LRTP) and Metropolitan Transportation Improvement Program (MTIP)

1. **Existing Land Use and Demographics: For GUAMPO, HPMPO, WSMPO**
   The existing Triad model had an Urban Land Use Project (known as TULUP), used a base year of 1994, and a horizon year of 2025. The *Balanced* (growth allocated among several dozen activity centers, according to infrastructure capacity) land use scenario has been adopted for this model. The 2000 Census data has been used to update this model. The updated model has a horizon year of 2030.

   For BGMPO, the existing LRTP update (adopted in May 2004) used a base year of 2002 and a horizon year of 2030. The MPO performed an inventory of population and employment, and also developed an existing land use/zoning map used in the model for the urban area.

2. **LRTP Model Validation (Base) Year:** 2002

3. **MTIP Years:** 2006 – 2012 (Supplemented with projects anticipated in the 2007-2013 TIP as appropriate)

4. **LRTP Horizon Year:** 2030

5. **LRTP Travel Demand Intermediate Years:** 2010, 2020

6. **Transportation Conformity Analysis Years (PM2.5)**

The Table below summarizes transportation conformity analysis methods and years for the different parts of the Triad PM2.5 non-attainment area. Specific conformity year information is listed in the following table.

Triad PM2.5 Non-Attainment Area Transportation Conformity

				Emission Comparison Years			
County	area (by model status)	Conformity Test	Emission Analysis Source	2002 (Baseline)	2010	2020	2030
Guilford	modeled area	Interim emission test	Travel Demand Model (TDM)	✔	✔	✔	✔

Davidson	modeled area	Interim emission test	TDM	✔	✔	✔	✔
	rural area	Interim emission test	rural spreadsheet*	✔	✔	✔	✔
* where part of a county is covered by the regional model the remainder of the county will be by analyzed by the NCDOT rural spreadsheet, factored the percentage of the counties population that lives outside the modeled area							

Note: Areas without budgets must have one analysis year within 5 years of the conformity determination (which will occur in 2006). No area will have a gap larger than 10 years. The baseline and horizon years must be analyzed.

Area: The non-attainment area of Guilford County is within the TDM boundary. Davidson County has a part within the modeled area and a part outside of the modeled area.

Emission analysis source: VMT and speeds for the emissions analysis will be derived from the TDM where it is available. VMT and speeds for the area outside of the TDM for Davidson County will come from the NCDOT rural spreadsheet.

Emission Comparison Years: Emissions must be calculated for a baseline year (2002), an interim year not more than 5 years from the year in which conformity is determined for areas without budgets (i.e., within 5 years if 2006) and at further intervals not exceeding 10 years, including the LRTP's horizon year (2030). Proposal: the entire area will be analyzed for 2002 baseline, 2010 (LRTP intermediate year/also attainment year), 2020 (LRTP intermediate year) and 2030 (LRTP horizon year).

List of Specific Conformity Years (PM2.5)
~~c.~~a. Baseline: 2002
~~d.~~b. Horizon: 2030

~~8.~~7. **Nonattainment / Maintenance Counties:** Guilford, Davidson

~~9.~~8. **Travel Demand Model:** TRANPLAN & Rural Spreadsheet*

*= NCDOT utilizes a detailed spreadsheet that incorporates the vehicle-miles traveled (VMT) universe file and historical trends to project the VMT in the horizon years. The spreadsheet calculates speed based on a model originally developed by the Texas Transportation Institute (TTI) but modified by NCDOT.

~~10.~~9. **Mode Split / Mode Choice:** *(same for all MPO's)*

~~11.~~10. **VMT Adjustments:** There will be no TDM to HPMS VMT adjustments since there are no budgets and the interim test (less than baseline test) will be used for this conformity process. Other adjustments to be determined by the analysis method (i.e., monthly, quarterly, seasonal, etc.).

~~12.~~11. **Motor Vehicle Emissions Budgets**

A PM2.5 SIP has not been developed yet, so MVEB's will not be used for this conformity process. Interim test (less than baseline test) will be for this conformity determination.

1. Build ≤ No-build, or
2. Less than 2002 baseline

- The strategy for this conformity process is to use easiest interim test to demonstrate conformity which will most likely be the "Less than 2002 baseline test." "The Build ≤ No-build" test will be used only as a last resort to demonstrate conformity.

~~13.~~12. **Control Strategies:** Emission reduction credits will be taken for the following on-road mobile SIP commitments or Federal programs.

Strategy **Methodology/Approach**

I/M Program	*Accounted for in Mobile6.2 model*
Tier 2 vehicle's Emission Standards	*Accounted for in Mobile6.2 model*
Low Sulfur Gasoline and Diesel fuels	*Accounted for in Mobile6.2 model*
Heavy Duty Vehicle Rules 2004 and 2007	*Accounted for in Mobile6.2 model*
Low RVP Gasoline	*Accounted for in Mobile6.2 model*
On board vapor recovery	*Accounted for in Mobile6.2 model*

~~14.~~13. **Mobile Source Emission Reduction Strategies:** The MPO's will take emission credits for the following Mobile Source Emission Reduction Strategies.

Strategy	**Approach**	**Year(s) Credited**
Park-n-Ride Lots:	*Off model*	*2002*, 2010, 2020, 2030*
Vanpools:	*Off Model*	*2002*, 2010, 2020, 2030*
ITS	*Off Model*	*2002*, 2010, 2020, 2030*
Transit Improvement	*Off model*	*2002*, 2010, 2020, 2030*

**if applicable for 2002*

14. Mobile Model: The MPO's will use the following MOBILE model-input parameters in the conformity analysis.

Parameter	**Details**	**Data Source**
a. Emissions Model Version(s):	*Mobile6.2*	
b. Emission Model Runs:	Calendar Quarterly	
c. Time Periods:	Calendar Quarterly	
d. Pollutants Reported:	Direct PM 2.5, and NOx	
e. Emission factor request years:	*2002, 2010, 2020, 2030*	
f. Vehicle Class:	*16*	

g. Temperatures: *Based on the 57 year mean Max/Min Temperatures from Greensboro (KGSO)*

	Max (F)	Min (F)
1st quarter	53.2	31.9
2nd quarter	77.4	54.8
3rd quarter	84.4	64.4
4th quarter	60.2	38.4

h. VMT mix:	Statewide mix based on 99-01 data using method in August 2004 USEPA Guidance
i. Speed:	*From TDM and Rural Spreadsheet*
j. Vehicle Registration:	*Based on 2002 registration data provided by DMV*
k. I/M Program:	*Davidson: None for 2002, and OBDII for 2010, 2020, 2030* Guilford: Idle for 2002, and OBDII for 2010, 2020, 2030
l. RVP:	Calendar Quarterly

	RVP
1st quarter	14
2nd quarter	10.1
3rd quarter	7.8
4th quarter	14

m. Strategies:	*See item 12 above*
n. I/M Fraction for Davidson	*0.16 for 2002 and 0.95 for 2010, 2020, and 2030*
o. I/M Fraction for Guilford	*0.76 for 2002 and 0.94 for 2010, 2020, and 2030.*
p. Evaluation month:	Set "evaluation month" to 1 for 1st and 2nd quarters. Set "evaluation month" to 7 for 3rd and 4th quarters.

q. Diesel Sulfur Content: Based on USEPA Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation (August 2004)

	Diesel Sulfur (ppm)
2002	500
2010 (1st two quarters)	43
2010 (2nd two quarters)	11
2020 and 2030	11

15. Emissions analysis units, conversion factors, significant figures, rounding and truncating conventions: To be finalized by the group. NCDAQ's suggestions:

- Units= Kilograms or Grams
- Grams to tons conversion factor= Divide x grams by 907184.7 to get tons
- Round to 2 decimal places

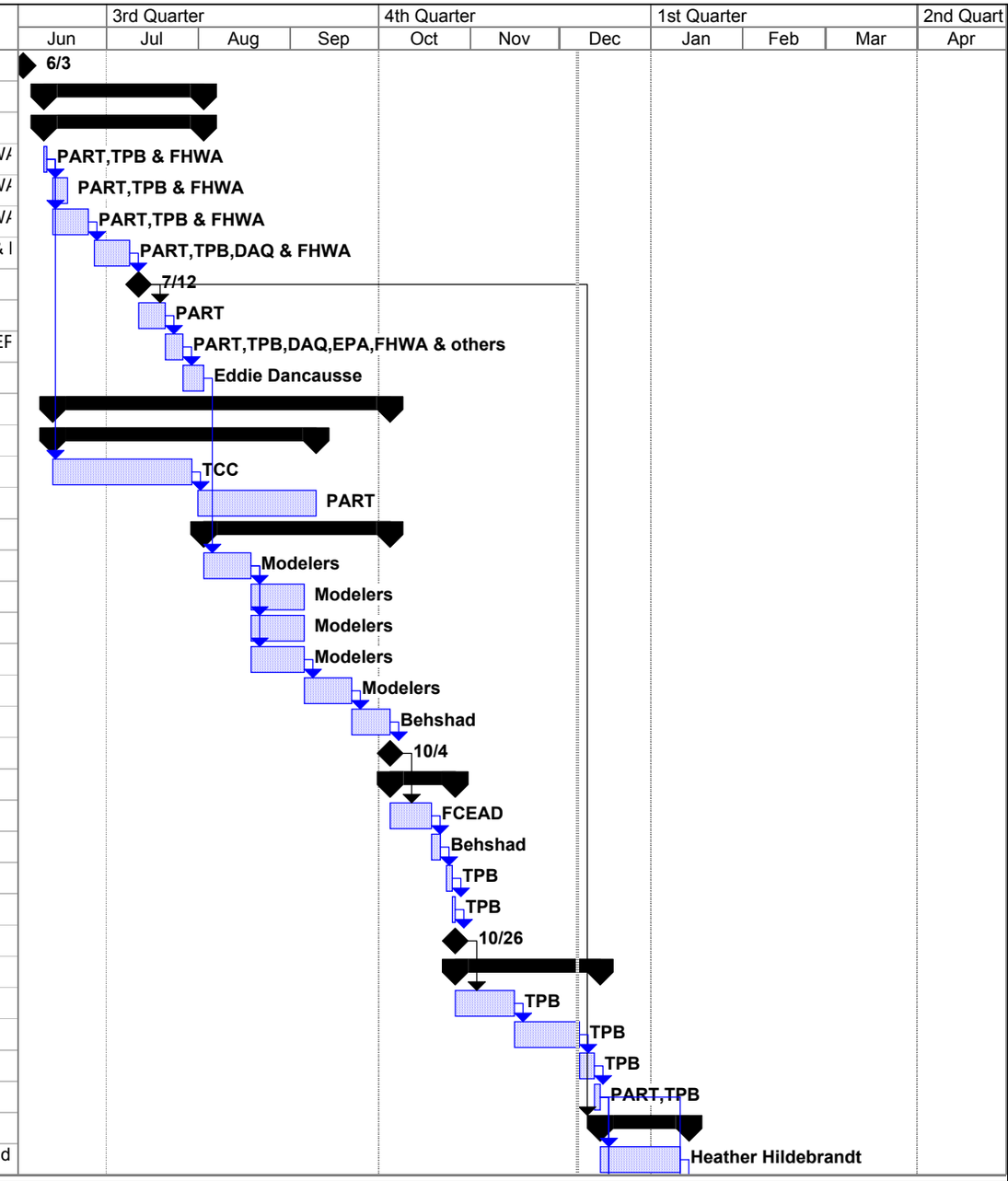
16. **CMAQ Projects:** PART and the MPO's will include a spreadsheet in the conformity documentation showing status of funded CMAQ projects, including emission reductions for each, amount of funding for each project, and implementation dates. *(each MPO/PART area would provide this information by the end of September 2005)*

17. **Regionally Significant Projects (Federal and Non Federal):** (each MPO/PART area would provide this information by the end of September 2005)

18. **Backup List of Exempt Projects and Non-Regionally Significant Projects (Federally Funded):** PART and the MPO's will identify exempt projects according to the Conformity Regulation (40 CFR 93.126) and non-regionally significant projects as a backup plan in the event of a conformity lapse. A discussion on the purpose of this can be a part of the conformity determination report (CDR) and the list of projects can be added as an appendix in the CDR. (*each MPO/PART area would provide this information by the end of September 2005)*

Conformity Schedule: *(A draft conformity schedule has been developed and is provided as an attachment to this document) The latest version of the schedule is dated 9/30/05*

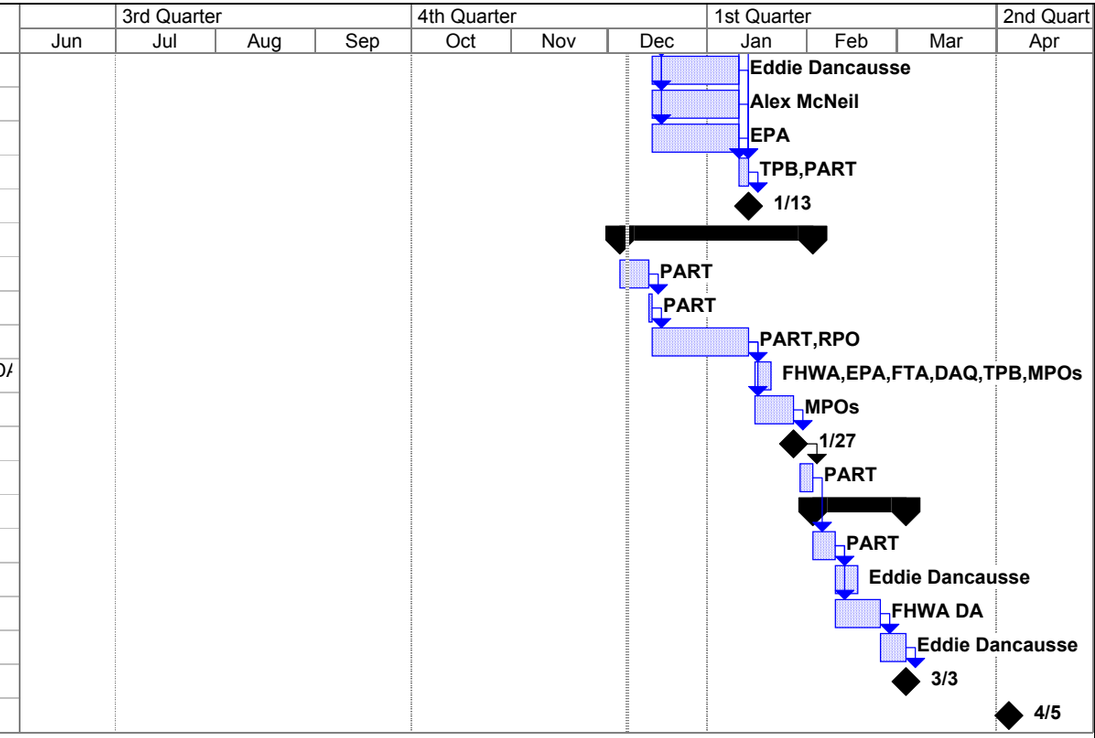
ID	Task Name	Duration	Start	Finish	Predecess	Resource Names
1	Project start	0 days	Fri 6/3/05	Fri 6/3/05		
2	**Interagency consultation**	**38 days**	**Fri 6/10/05**	**Tue 8/2/05**		
3	**Preliminary IA work**	**38 days**	**Fri 6/10/05**	**Tue 8/2/05**		
4	Set meeting date	1 day	Fri 6/10/05	Fri 6/10/05		PART,TPB & FHWA
5	Develop participant list	5 days	Mon 6/13/05	Fri 6/17/05	4	PART,TPB & FHWA
6	Prepare agenda	10 days	Mon 6/13/05	Fri 6/24/05	4	PART,TPB & FHWA
7	Prepare presentation	10 days	Mon 6/27/05	Fri 7/8/05	6	PART,TPB,DAQ & I
8	Interagency Meeting	0 days	Tue 7/12/05	Tue 7/12/05	7	
9	Meeting Minutes	7 days	Tue 7/12/05	Wed 7/20/05	8	PART
10	Review meeting minutes	4 days	Thu 7/21/05	Tue 7/26/05	9	PART,TPB,DAQ,EF
11	Follow up to address comments	5 days	Wed 7/27/05	Tue 8/2/05	10	Eddie Dancausse
12	**Transportation Planning**	**82 days**	**Mon 6/13/05**	**Tue 10/4/05**		
13	**Finalizing Transportation Option**	**65 days**	**Mon 6/13/05**	**Fri 9/9/05**		
14	TCC develops draft LRTP	35 days	Mon 6/13/05	Fri 7/29/05	4	TCC
15	Specify CMAQ, regionally significant & exempt projects	30 days	Mon 8/1/05	Fri 9/9/05	14	PART
16	**Transportation Modeling**	**45 days**	**Wed 8/3/05**	**Tue 10/4/05**		
17	Base year network	12 days	Wed 8/3/05	Thu 8/18/05	11	Modelers
18	Horizon year 1	12 days	Fri 8/19/05	Mon 9/5/05	17	Modelers
19	Horizon year 2	12 days	Fri 8/19/05	Mon 9/5/05	17	Modelers
20	Design Year	12 days	Fri 8/19/05	Mon 9/5/05	17	Modelers
21	Extract VMT and speeds	12 days	Tue 9/6/05	Wed 9/21/05	20	Modelers
22	Evaluate speeds and VMT	9 days	Thu 9/22/05	Tue 10/4/05	21	Behshad
23	Modeling Complete	0 days	Tue 10/4/05	Tue 10/4/05	22	
24	**Emission Analysis**	**16 days**	**Wed 10/5/05**	**Wed 10/26/05**		
25	Develop Emission Factors	10 days	Wed 10/5/05	Tue 10/18/05	23	FCEAD
26	Emission Factors Review	3 days	Wed 10/19/05	Fri 10/21/05	25	Behshad
27	Analysis based on TDM	2 days	Mon 10/24/05	Tue 10/25/05	26	TPB
28	Off model analysis	1 day	Wed 10/26/05	Wed 10/26/05	27	TPB
29	Emission analysis complete	0 days	Wed 10/26/05	Wed 10/26/05	28	TPB
30	**Report Preparation**	**35 days**	**Thu 10/27/05**	**Wed 12/14/05**		
31	Preliminary report preparation	14 days	Thu 10/27/05	Tue 11/15/05	29	TPB
32	Prepare draft report	16 days	Wed 11/16/05	Wed 12/7/05	31	TPB
33	Internal Review	3 days	Thu 12/8/05	Mon 12/12/05	32	TPB
34	Draft Printing & Distribution	2 days	Tue 12/13/05	Wed 12/14/05	33	PART,TPB
35	**Phase 1 IA review**	**22 days**	**Thu 12/15/05**	**Fri 1/13/06**	**8**	
36	DENR Review	19 days	Thu 12/15/05	Tue 1/10/06	34	Heather Hildebrand



Project: Triad PM2.5
Date: Wed 12/7/05

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

ID	Task Name	Duration	Start	Finish	Predecess	Resource Names
37	FHWA Initial Review	19 days	Thu 12/15/05	Tue 1/10/06	34	Eddie Dancausse
38	FTA Initial Review	19 days	Thu 12/15/05	Tue 1/10/06	34	Alex McNeil
39	EPA Initial Review	19 days	Thu 12/15/05	Tue 1/10/06	34	EPA
40	Respond to agencies comments/IC meeting	3 days	Wed 1/11/06	Fri 1/13/06	36,37,38,3	TPB,PART
41	Phase 1IA complete	0 days	Fri 1/13/06	Fri 1/13/06	40	
42	**MPO Determination**	**44 days**	**Mon 12/5/05**	**Thu 2/2/06**		
43	TCC Recommendation of Draft	7 days	Mon 12/5/05	Tue 12/13/05		PART
44	TAC Releases the Draft	1 day	Wed 12/14/05	Wed 12/14/05	43	PART
45	Public Review (30 calendar days)	22 days	Thu 12/15/05	Fri 1/13/06	44	PART,RPO
46	Respond to Comments	5 days	Mon 1/16/06	Fri 1/20/06	45	FHWA,EPA,FTA,D/
47	TAC Adopts Final	10 days	Mon 1/16/06	Fri 1/27/06	45	MPOs
48	MPO action complete	0 days	Fri 1/27/06	Fri 1/27/06	47	
49	Final Printing & Distribution	4 days	Mon 1/30/06	Thu 2/2/06	48	PART
50	**Federal Action**	**21 days**	**Fri 2/3/06**	**Fri 3/3/06**		
51	Transmit Report to FHWA/TPB	5 days	Fri 2/3/06	Thu 2/9/06	49	PART
52	FHWA transmit report to EPA & FTA	5 days	Fri 2/10/06	Thu 2/16/06	51	Eddie Dancausse
53	USDOT Determination	10 days	Fri 2/10/06	Thu 2/23/06	51	FHWA DA
54	USDOT Letter to State/MPO	6 days	Fri 2/24/06	Fri 3/3/06	53	Eddie Dancausse
55	Process Complete	0 days	Fri 3/3/06	Fri 3/3/06	54	
56	Conformity Lapse Date	0 days	Wed 4/5/06	Wed 4/5/06		



Project: Triad PM2.5
Date: Wed 12/7/05

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

Interagency Consultation Meeting
for the Triad PM2.5 Nonattainment Area
Greensboro MPO, High Point MPO, Winston Salem Forsyth MPO, Burlington Graham MPO and the donut area county of Davidson

July 12, 2005

Meeting time: 10:00am-12:00pm
Location: FHWA NC Division Office
4th Floor Conference Room
310 New Bern Ave., Suite 410
Raleigh NC 27601

Videoconference Location for EPA and FTA Region 4: FHWA Georgia Division Office

4 Draft Agenda

Introductions

Purpose of the Meeting

Overview of the Conformity Process/Conformity Process Schedule

Greensboro MPO/ High Point MPO/Burlington Graham MPO LRTP Update/Strategy

Transportation Conformity: Pre-Consensus Plan

Summarize Action/Parking Lot Items

Questions/Concerns from IC Partners

Meeting Wrap-up/Discussion of Next IC meeting

Meeting Minutes

Attendees:
Scott Rhine (PART), James Upchurch (NCDOT), Bill Marley (FHWA), Monica Kerr (NCDOT), Loretta Barren (FHWA), Mike Abraczinskas (NCDAQ), Michael Abuya (NCDOT), Mike Nunn (BGMPO), Craig Hughes (HPMPO), Phil Wylie (HPMPO), Lydia McIntyre (GUAMPO), Marcus Wilner (FHWA), Hanna Cockburn (PTRPO), Guy Cornman (Davidson Cnty.), Roger Spach (City of Lexington), Phyllis Jones (NCDAQ), Heather Hildebrandt (NCDAQ), Michelle Farmer (NCDAQ), Cynthia Muldrow (NCDAQ), Behshad Norowzi (NCDOT), Wendy Miller (WSDOT), Cary Gentry (FCEAD), Patrick Reagan (FCEAD), Van Sullivan (FCEAD), Eddie Dancausse (FHWA), Via Teleconference – Lynorae Benjamin, and Amanetta Wood (EPA Region 4)

Purpose of Meeting:
FHWA provided for the group some background information and a general overview of the purpose of the meeting, and the Triad Transportation Conformity process for the PM2.5 areas of Guilford and Davidson Counties.

Triad Region MPOs LRTP Updates/ Strategies:
Each MPO representative discussed their current LRTPs, and confirmed that no changes were anticipated to their LRTP's. Since the LRTP's were recently updated and the latest planning assumptions are still valid the existing LRTP's will be used for this conformity process. The IC partners were OK with this approach.

Transportation Conformity: Pre-Consensus Plan:
PART followed the Consensus plan outline, and opened to the group any discussion/clarification needed for each individual point. The following are results of thegroup discussion:

Opening paragraph – At the beginning of the last sentence of the second paragraph, insert "After consensus is reached"
Item 1 – No changes
Item 2 – Update Base year to 2002
Item 3 – No changes
Item 4 – No changes
Item 5 – Delete year 2030
Item 6 – Change table (column three) "

- change "subarea (by emission budget status)" to "Conformity Test"
- change "no emission budget" to "Interim emission test"

Item 7 – No changes
Item 8 – change "TRANSPLAN' to TRANPLAN Behshad will provide the rural spreadsheet information toEPA prior to the next IC meeting in August.
Item 9 – No changes
Item 10 – No changes
Item 11 –

- change "Build < No Build" to "Build ≤ No Build"
- change "Less than baseline" to "Less than 2002 baseline",
- The strategy for this conformity process is to use easiest interim emission test to demonstrate conformity which will most likely be the "Less than 2002 baseline test." The "Build ≤ No Build" test will be used only as a last resort to demonstrate conformity.

Item 12 – No changes
Item 13 – No changes. Behshad will provide to EPA an example of an off-model documentation from a previous conformity determination process prior to the submission of the Triad area PM2.5 conformity determination report.
Item 14

(a) No changes
(b) waiting on EPA PM2.5 annual inventory guidance
(c) waiting on EPA PM2.5 annual inventory guidance .
(d) This conformity process will focus on PM2.5 primary and NOx. NCDENR will provide EPA documentation that they have put together showing insignificance of PM2.5 pollutants. EPA will review and let NCDENR know if a finding of insignificance can be made by EPA
(e) change "calendar dates" to "Emission factor request years"
(f) No changes
(g) waiting on EPA PM2.5 annual inventory guidance
(h) No changes
(i) No changes
(j) No changes
(k) No changes
(l) No changes
(m) No changes
(n) No changes
(o) No changes

Item 15

- Change "tons" to "Kilograms or Grams"
- delete bullet 2.

Item 16 – Update wording to have project information ready by September 2005. PART willprovide project information.
Item 17 - Update wording to have project information ready by September 2005. PART willprovide project information.

Item 18 - Update wording to have project information ready by September 2005. PART will provide project information.
Item 19 – Update schedule to include changes in aforementioned items 16-18. Adjust schedule item (Transportation planning) to reflect actual end dates.

Action Items:

- PART will update the TCPCP and the conformity process schedule with changes discussed and agreed upon at IC meeting and will draft and distribute the meeting minutes (by 7/29/05).

- FHWA and PART will set up an IC meeting in early August 2005 to discuss the results of the EPA PM2.5 Annual Inventory Guidance.

- NCDOT will provide the rural spreadsheet information to EPA prior to the next IC meeting in early August 2005.

- NCDENR will provide EPA documentation that they have put together showing insignificance of PM2.5 pollutants. EPA will review and let NCDENR know if a finding of insignificance can be made by EPA (by 7/29/05).

- NCDOT will provide to EPA an example of an off-model documentation from a previous conformity determination process prior to the submission of the Triad area PM2.5 conformity determination report.

The meeting adjourned at 11:40 am.

- End -

August 31, 2005

Interagency Consultation Meeting

- **Triad PM2.5 Nonattainment Area**

Greensboro MPO, High Point MPO, Winston Salem Forsyth MPO, Burlington GrahamMPO and the donut area county of Davidson

- **Catawba Nonattainment Area**

Hickory MPO and the donut area county of Catawba

- **Meeting time:** 10:30am-12:30pm
- **Location:** Burlington Train Depot (Shops at the Depot)
- **Directions:** From I-40/85, take exit #143

Turn toward downtown (toward Home Depot), and take a right on S. Mebane Street. Follow South Mebane Street and take a left on E. Webb Street (Hwy. 87/Hwy. 100). Train Depot is on your right. 101 N. Main Street, Burlington, NC 27217

- **Telephone call in number for EPA and FTA Region 4:** (336) 229-4084

Draft Agenda / Minutes

- **Introductions**
  - Scott Rhine welcomed everyone to the meeting. The following were in *attendance:* Loretta Barren, Eddie Dancausse, Behshad Norowzi, Derry Schmidt, Monica Kerr, James Upchurch, Michael Abuya, Hanna Cockburn, Phyllis Jones, Mike Abraczinskas, Beverly Williams, Linh Nguyen, John Tippett, Heather Hildebrandt, Lydia McIntyre, Mike Nunn, Greg Errett, Wendy Miller, Scott Rhine, Craig Hughes, Patrick Reagan, Van Sullivan, Michelle Farmer, Taylor Dellinger, Cary Gentry.

Doug Frate (FTA), and Amanetta Wood and Lynorae Benjamin (EPA) called in from their Atlanta offices.

- **Purpose of the Meeting – Eddie Dancausse**
  - Meeting was scheduled to provide an update on the progress made thus far by the MPOs and NCDOT, follow-up on the action items from the July 11 & 12, 2005, interagency consultation meetings and to provide an overview of the recently released PM2.5 guidance to the group.
- **Conformity Process/Conformity Process Schedule**
  - Triad PM2.5
    - Eddie reviewed the schedule for progress. Model development is complete, since it was used for the previous conformity determination. The schedule will need to be adjusted because the NCDOT will not be requesting emission factors as soon as initially planned. A 2-week delay is anticipated. <u>The schedule will be updated to reflect the anticipated delay and e-mailed to all partners.</u>
  - Catawba

        - Eddie reviewed the schedule, and didn't identify any needed changes.

- **Overview of PM2.5 Guidance for Creating Annual On-Road Mobile Inventories for PM2.5 Nonattainment Areas for Use in SIPs and Conformity**
    - ***Applicable pollutants and precursors***
        - *Direct PM2.5*
            - *Tailpipe, brake and tire wear*
        - *Precursors*
            - *NOx*
    - ***Annual inventory methodology***
        - *Single-run approach*
        - *Two-season approach*
        - *Four –season approach*
        - *Monthly approach*

- **Transportation Conformity: Pre-Consensus Plan-Open Action Items**
    - Triad and Catawba
        - For both areas the remaining items to be detailed where similar for each areas consensus plans. The following outcomes were agreed to by the partners, and the Pre-Analysis Consensus Plans will be updated to reflect these decisions:
            - #14, b. Emission model runs will be done on a quarterly or seasonal basis for both NOx and PM 2.5 direct. DAQ will make a final determination depending on how NOx reacts to the seasonal temperatures.
            - *#14, c. will be done quarterly or seasonal.*
            - *#14, g. will be a quarterly or/seasonal average*
            - *#14, l. will be averaged (quarterly or seasonal) for each county.*

Other Action Items from the Catawba PM2.5 IC meeting on 7/11/05:

- A follow-up IC meeting will be scheduled for the end of July or first of August to discuss the remaining guidance from EPA after it has been released.
    - **This item is complete**

- Behshad will send to EPA detailed information regarding the rural spreadsheet and how it is used.
    - **This item is complete**

- NCDAQ will submit draft information to EPA regarding finding of insignificance for NOx and PM, prior to SIP development.
    - **NCDENR presented their findings at the 8/31/05 IC meeting. NCDENR will continue working with EPA on the insignificance finding issue.**

- Loretta will revise the TCPCP based on comments from and consensus reached at the meeting, meeting notes, and the action item list to IC partners prior to July 25, 2005.
    - **This item is complete**

Other Action Items from the Triad PM2.5 IC meeting on 7/12/05:

- PART will update the TCPCP and the conformity process schedule with changes discussed and agreed upon at IC meeting and will draft and distribute the meeting minutes (by 7/29/05).

- **This item is complete**

- FHWA and PART will set up an IC meeting in early August 2005 to discuss the results of the EPA PM2.5 Annual Inventory Guidance.
  - **This item is complete**

- NCDOT will provide the rural spreadsheet information to EPA prior to the next IC meeting in early August 2005.
  - **This item is complete**

- NCDENR will provide EPA documentation that they have put together showing insignificance of PM2.5 pollutants. EPA will review and let NCDENR know if a finding of insignificance can be made by EPA (by 7/29/05).
  - **NCDENR presented their findings at the 8/31/05 IC meeting. NCDENR will continue working with EPA on the insignificance finding issue.**

- NCDOT will provide to EPA an example of an off-model documentation from a previous conformity determination process prior to the submission of the Triad area PM2.5 conformity determination report.
  - **This item is complete. NCDOT provided this information to EPA on 9/2/05**

- **NCDENR Overview/Summary of PM2.5 Insignificance Finding**
  - *Mike Abraczinskas presented an overview of the work NCDENR/DAQ prepared on the findings of directly emitted PM2.5 (primary) from mobile sources is "insignificant."*
  - *Mike presented a presentation of the findings of DAQ for each county, and will be seeking EPA review/concurrence within a couple of weeks.*
  - *Even though NCDENR/DAQ believes there are no significant impacts from PM 2.5 that would require a conformity determination, pre SIP, the non-attainment areas should continue to proceed with the conformity determination process in case EPA does not concur with the findings of insignificance.*
  - *Mike asked for that areas review his presentations and make any comments, questions, or suggestions as soon as possible.*
  - *Behshad suggested providing EPA all the data collected as more evidence of insignificance.*

- **Summarize Action/Parking Lot Items**
  - **Update TCPCP for both Catawba PM2.5 and the Triad PM2.5 Conformity Processes and provide by 9/14/05**
  - **Provide IC meeting minutes by 9/14/05**
  - **Behshad Norowzi will revise the Triad schedule to reflect changes suggested today, and distributed with today's meeting minutes.**
  - **PART will coordinate with the Triad MPO's and NCDOT on the write up needed for items 16,17,18 of the Pre-Analysis Consensus plan**

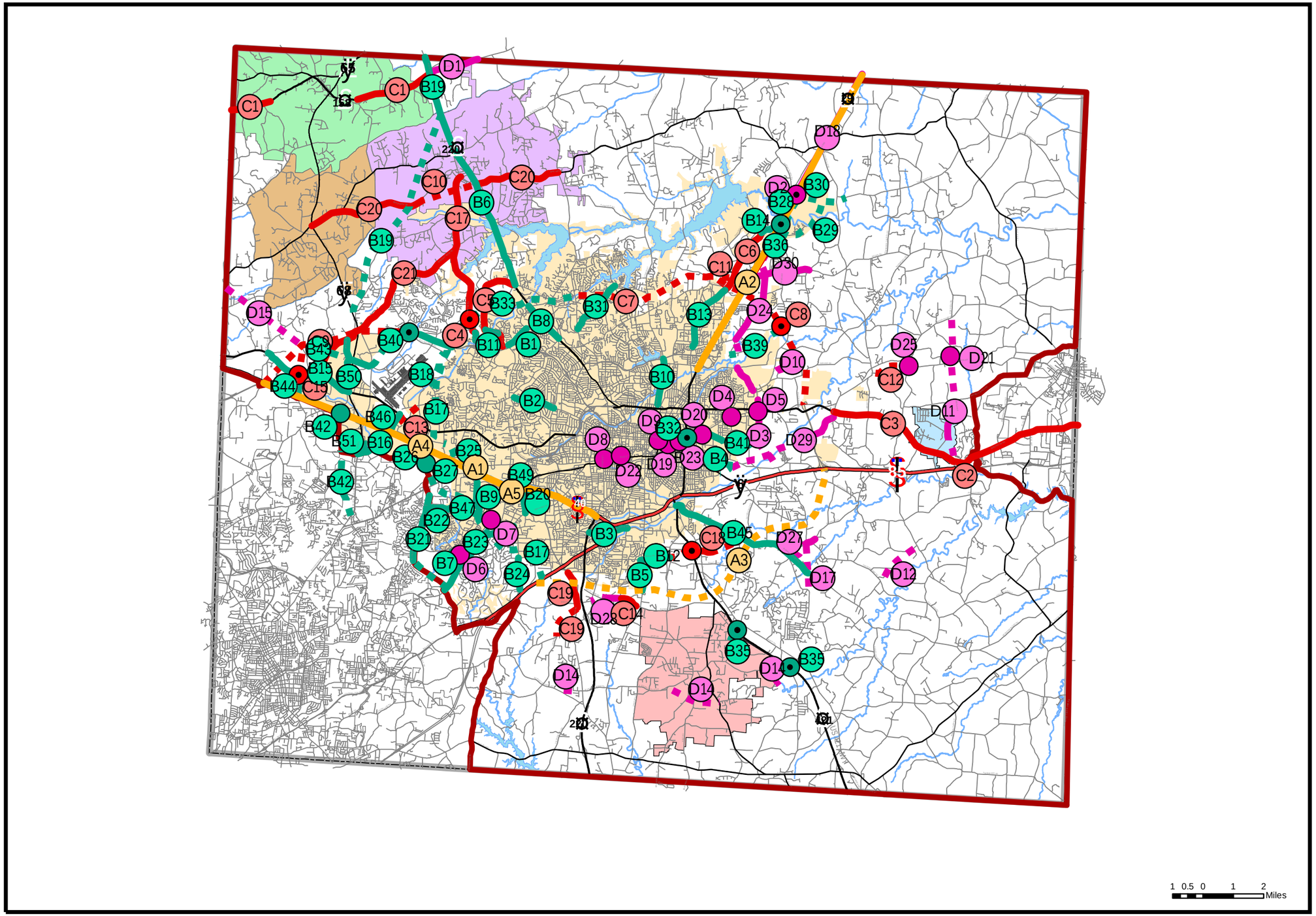
- **Behshad will provide EPA an example of the off-model documentation from a previous conformity determination process. This item is complete. The NCDOT provided this information to EPA on 9/2/05.**
- **NCDENR will continue working with EPA on the insignificance finding issue.**
- **Regionally significant and exempt projects need to be identified and submitted to the partners for review as soon as possible, for both areas.**

- **Questions/Concerns from IC Partners**
  - *None presented*
- **Meeting Wrap-up/Discussion of Next IC meeting**
  - *No meeting was scheduled, but it is anticipated following any determination from EPA on the findings of PM2.5 "insignificance" as presented from the DAQ, or if there are major questions regarding the regionally significant and exempt list of projects .*

Meeting Adjourned at 12:30 PM

-END-

Appendix D: List of Roadway and Transit Projects



Greensboro Urban Area Long Range Transportation Plan

Horizon Year Projects

A# 2004 Project Reference
B# 2014 Project Reference
C# 2020 Project Reference
D# 2030 Project Reference

2004 Horizon Year Projects
Widening
New Location

2020 Horizon Year Projects
Widening
New Location

2014 Horizon Year Projects
Widening
New Location

2030 Horizon Year Projects
Widening
New Location

2030, Interchange
2030, Grade Separation
2020, Interchange
2014, Grade Separation
2014, Interchange

Highway
Interstates
US Highways
State Highways
Streets
County Line
Metropolitan Area Boundary

June 7, 2004

5

Mapping prepared by Kimley-Horn and Associates, Inc.
for the Greensboro Urban Area Long-Range Transportation Plan
Data Sources: Guilford County, City of
Greensboro, FEMA, U.S. Census Bureau, KHA,
and NCDOT

GREENSBORO URBAN AREA PROJECTS
For the Guilford and Davidson County Areas

Horizon Year 2005-2010 / Greensboro Urban Area MPO

TIP#	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	Regionally Significant?
U-2524 (part)	Western Urban Loop (Sect. A & B) (From I-85 to Bryan Blvd.)	I-85 to Lawndale Dr. (not open to traffic in '05; refer to 2014 for the remainder)	15	N/A	6 lane freeway	Interstate	Yes
U-2913 (part)	Guilford College Road	Widening from Ruffin Rd to new alignment	2.3	2 lane	4-5 lane	Minor Arterial	Yes
	East Cone Boulevard Extension	Nealtown Rd. to Hines Chapel Rd.	2	N/A	4 lane divided	Minor Arterial	Yes
U-2815 C	Bryan Boulevard	Inman Rd. to NC 68 (relocate roadway & construct interchange at Old Oak Ridge Rd.)	1.9	4 lane divided	4-6 lane divided	Freeway/Expressway	Yes
	Horse Pen Creek – Fleming Connector	Horse Pen Creek Rd. to Fleming Rd. (includes extending existing cross-sections)	0.7	N/A	3 lane	Collector	No
	New Garden Road	Jefferson Rd. to Brassfield Rd.	1	2 lane	4-5 lane	Minor Arterial	No
	Friendly Avenue	Westridge Rd. to Holden Rd., add medians & LT lanes	1.4	4 lane	4-5 lane	Minor Arterial	No
	Creek Ridge Road	Randleman Rd. to US 220 (refer to 2004 for the remainder)	1.2	2 lane	3 lane	Collector	No
	Elm-Eugene Street	Vandalia Rd. to Southern Urban Loop (I-85 Bypass)	0.8	2lane	5 lane	Minor Arterial	No
U-2524 (part)	Chimney Rock Road Extension	Existing facility to Old Oak Ridge Rd. (part of B17)	1.3	N/A	2 lane	Local	No
	Merritt Drive	I-40 to High Point Rd.	1	3 lane	5 lane	Collector	No
U-3612	Hilltop Road	Guilford College Rd. to Adams Farm Pkwy.	0.6	2 lane	4-5 lane	Minor Arterial	No
U-2524 (part)	Hornaday Road / Chimney Rock Road Connector	Bridge over Urban Loop	N/A	N/A	3 lane	N/A	No
	Reedy Fork Parkway	Turner-Smith Rd Ext to Eckerson Rd.	2.2	N/A	3 lane	Local	No
	Church Street	Streetscape, Lindsay St. to Friendly Ave.	0.3	N/A	N/A	Collector	No
U-3313 (part)	Groometown Road	Wiley Davis Rd. to Wayne Rd.	1.2	2 lane	4-5 lane	Minor Arterial	No
	Hornaday Road / Chimney Rock Road Connector	Hornaday Rd. to Chimney Rock Rd.	1	N/A	3 lane	Local	No
	Lake Jeanette Road	Lawndale Ave. to N Elm St. / Bass Chapel Rd.	2.2	2-3 lane	3-5 lane	Local	No
U-4015 (part)	Gallimore Dairy Road	I-40 to Market St.	0.6	2 lane	5 lane	Collector	No
	Hilltop Road	Widen from Adams Farm Pkwy to Stanley Rd.	1.3	2 lane	5 lane	Minor Arterial	No

GREENSBORO URBAN AREA PROJECTS
For the Guilford and Davidson County Areas
Horizon Year 2011-2020 / Greensboro Urban Area MPO

TIP#	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	Regionally Significant?
U-4015 (part)	Gallimore Dairy Road	NC 68 to I-40	1	2 lane	5 lane	Collector	No
R-2577 (part)	US 158	Forsyth Co. Line to US-220 (in conjunction w/ Bypass) (refer to 2020 for more; remainder of the project lies in Forsyth and Rockingham Cos.)	6.8	2 lane	4-5 lane	Minor Arterial	Yes
U-2525 (part)	Eastern Urban Loop	Lawndale Dr. to US 70 (refer to 2020 for the remainder)	13	N/A	6 lane freeway	Interstate	Yes
	Franklin Boulevard / Florida Street Connector	McConnell Rd. to Lee St.	0.6	2 lane	3-4 w/ median	Collector	No
	Alamance Church Road	US 421 to Southeast School Rd.	4.7	2 lane	5 lane	Minor Arterial	Yes
	Mackay Road	High Point Rd. to Adams Farm Pkwy.	0.5	2 lane	5 lane	Collector	No
	Stanley Road	Koger Blvd. To Hilltop Rd.	1.1	2 lane	5 lane	Collector	No
	Church Street	Cone Blvd. To Northwood St.	1.5	3 lane	5 lane	Collector	No
	Vandalia Road	Elm-Eugene St. to Pleasant Garden Rd.	1	2 lane	5 lane	Minor Arterial	No
	Summit Avenue	McKnight Mill Rd. to Brightwood School Rd.	2.3	2 lane	4-5 lane	Minor Arterial	No
	Summit Avenue	Bryan Park to Reedy Fork Pkwy.	0.8	2 lane	4-5 lane	Minor Arterial	No
U-4006	Bridford Parkway Extension	Wendover Ave. at Hornaday Rd. to Burnt Poplar Rd. at Swing Rd.	1.1	N/A	5 lane	Collector	No
	Bryan Boulevard Extension	NC 68 to Pleasant Ridge Rd.	0.8	N/A	4 lane divided	Major Collector	No
	Sandy Ridge Road	I-40 to Market St.	1	2 lane	4 lane divided	Major Collector	No
	Norwalk Street Connector	Boston Rd. over railroad to existing roadway	0.3	N/A	3 lane	Collector	No
	Regional Road Extension	Gallimore Dairy Rd. to Regional Rd. north of Hickory Ridge Rd. (part existing)	0.6	N/A	3 lane	Collector	No
	Reedy Fork Service Road	Turner-Smith Rd. Ext. to Reedy Fork Pkwy.	1.4	N/A	5	Local	No
	Turner Smith Road Extension	Connect Brown Summit Rd. to Turner Smith Rd.	2	N/A	3 lane	Major Collector	No
U-2524 (part)	Lake Brandt / Cotswold Connector	Lake Brandt Rd. to Cotswold Rd. (part of B17)	0.3	3 lane	3 lane	Collector	No
U-2524 (part)	Western Urban Loop (Sect. C) (From Bryan Blvd. to Lawndale Drive)	I-85 to Lawndale Dr. (refer to 2004 for the remainder)	15	N/A	6 lane freeway	Interstate	Yes
	Holts Chapel Road Upgrade	Alignment & cross-section improvements, E Market St. to Ward Rd.	1.6	2 lane	2-3 lane	Collector	No
	Pegg Rd. – Thatcher Rd. Connector	Gallimore Dairy Rd. to Pleasant Ridge Rd. widening and new grade separation at I-40	2.1	N/A	4 lane divided	Collector	No
	Brigham Road	Widen from West Market St. to Pleasant Ridge Rd.	1.7	2 lane	4 lane divided	Collector	No
		New alignment from widening to High Point Rd. (refer to 2004 for more; remainder of the project is located in High Point)	1.5	N/A	4 lane divided	Minor Arterial	Yes
U-2412 (part)	High Point Road	Hilltop Rd. to Proposed US 311 Bypass (portion in High Point MPO)	3.8	3 lane	4-5 lane	Principal Arterial	Yes

R-2612 (part)	US 421	Williams Dairy / Neelley Rd. realignment & interchange + US 421 interchange with Woody Mill Rd. (and future Hagen Stone Park Rd. Connector)	1.2	2 lane	3-5 lane	Freeway / Expressway & Collector	Yes
R-4707	US29	Eckerson Rd. / US 29 Interchange + 1 mile of freeway upgrade (Assumes U-2524 includes widening of remaining US 29 south to Urban Loop)	1	4 lane freeway	6 lane freeway	Freeway/Expressway	Yes
R-2413 (part)	NC 68 / US 220 Connector	Pleasant Ridge Rd. to US 220 & widening to Rockingham Co. line. (not open to traffic in '05 – refer to 2014 for more; remainder of the project is located in Rockingham Co.)	9.8	N/A	4 lane freeway	Interstate	Yes
R-2309	US 220	Horsepen Creek Rd. to US 220 – NC 68 Connector	6.3	2 lane	4-5 lane	Principal Arterial	Yes
	Battleground Avenue	Cotswold Ave. to Westridge Rd.	1.3	5 lane	6-7 lane	Principal Arterial	Yes
R-2611	West Market St.	NC 68 to Bunker Hill Rd.	3.6	2 lane	4-5 lane	Major Collector	Yes
R-2413 (part)	NC 68 / US 220 Connector	Pleasant Ridge Rd. to US 220 + widening to Rockingham Co. line (refer to 2004 for more; remainder of the project is located in Rockingham Co.)	9.8	N/A	4 lane freeway	Interstate	Yes
	I-40 / NC 68 / I-73 Connector	Old Oak Ridge Rd. to I-40	7.6	N/A	4-6 lane freeway	Interstate	Yes
	Sandy Ridge Road Extension	Market St. to Airport Connector and interchange at Market St.	1	N/A	4 lane divided	Major Collector	Yes
R-2910 (part)	US 70	Rock Creek Dairy Rd. to Alamance County Line (.3 to MAB). (remainder of the project lies in Alamance Co.)	0.3	2 lane	5 lane	Major Collector	Yes
U-2581	US 70	Mt Hope Church Rd. to Rock Creek Dairy Rd.	5.2	2 lane	5 lane	Minor Arterial	Yes
	Fleming Road / Lewiston Road	Fleming Rd. to Lewiston Rd. connection and interchange at Urban Loop	0.6	N/A	4-5 lane	Freeway / Expressway & Minor Arterial	Yes
	Pleasant Ridge Road	Lewiston Rd. to Summerfield Rd.	5	2 lane	5 lane	Major Collector	Yes
	Vandalia Road Extension	Pleasant Garden Rd. to Alamance Church Rd. & US 421 interchange	2.7	N/A	5 lane	Freeway / Expressway & Minor Arterial	Yes
	E Cone Blvd / Urban Loop Interchange	Interchange with East Cone Blvd. And Urban Loop	N/A	N/A	N/A	Interstate	Yes
	Carmon / McLeansville Road Connector	Knox Rd. to McLeansville Rd.	1.1	N/A	2 lane	Collector	No
	Gallimore Dairy Road / Friendly Avenue	Realign for continuity	0.2	5 lane	5 lane	Minor Arterial	No
	Horsepen Creek Road	New Garden Rd. to Battleground Ave.	3.4	2 lane	4-5 lane	Collector	No
	Summit Avenue	Brightwood School Rd. to Bryan Park Rd.	2.6	2 lane	3-5 lane	Minor Arterial	No
	NC 150 Realignment	New location, from Brookbank Road to US 220 (see C20 for remainder)	1.9	N/A	2 lane	Major Collector	No
	Hicone Road Extension	Lee's Chapel Rd. to Summit Ave.	0.8	N/A	3 lane	Minor Arterial	No
	Ritters Lake Road Realignment	Connect with Wolfetrail at Randleman Rd.	0.4	2 lane	3 lane	Minor Arterial	No
	South Holden Road	South of Bus. I-85 to Kivett Dr. – part on new location	2.4	2 lane	4-5 lane	Minor Collector	No
	NC 150 Realignment / Widening	On existing Brookbank Road and existing Auburn Road from NC 68 Lake Brandt Road (see C10 for remainder)	7.5	2 lane	3 lane	Major Collector	No
	Pleasant Ridge Road	Market St. to Lewiston Rd.	8	2 lane	3 lane	Major Collector	No
	East Market Street	Streetscape and Traffic Management		6 lane divided	4 lane divided	Principal Arterial	No

Horizon Year 2021-2030 / Greensboro Urban Area MPO

TIP#	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	Regionally Significant?
R-2580 (part)	US 158	US 220 to Rockingham Co. Line. (remainder of the project lies in Rockingham Co.)	1.5	2 lane	4-5 lane	Minor Arterial	Yes
	US 29	New single point urban interchange at Brown Summit / Turner Smith Connector	N/A	N/A	4-6 lane	Interstate	Yes
	Penry / Ward / Youngs Mill Connector	McConnell Rd. to Huffine Mill Rd. (realign & improve existing)	3.1	2 lane	3 lane	Major Collector	Yes
R-2612 (part)	Burnetts Chapel / Steeple Chase / Hagen Stone Park Connector	Burnetts Chapel Rd. to Company Mill Rd., new alignments	3.3	N/A	2lane	Freeway/Expressway & Collector	Yes
	Airport Connector	Sandy Ridge Rd. Ext. (at I-73 Connector) to Forsyth Co. (remainder to Winston-Salem Urban Loop / I-74)	3.7	N/A	4 lane freeway	Freeway/Expressway	Yes
	Youngs Mill / Southeast School Connector	Millpoint Rd. to Southeast School Rd.	1.2	N/A	2 lane	Minor Arterial	Yes
	US 29	Widen & upgrade to interstate, north of Urban Loop to Rockingham Co. line	5.5	4 lane freeway	6 lane freeway	Interstate	Yes
	Florida Street Extension	Franklin Blvd. Ext. to Mt. Hope Church Rd. (new & improve existing)	4	N/A	4 lane divided	Major Collector	Yes
	Knox Road Extension	Carmon to Frieden Church Rd., w/ railroad grade separation	0.3	N/A	2lane	Collector	No
	Creekview / Butler Road Connector	McCleansville Rd. to Huffine Mill Rd.	0.3	N/A	2lane	Local	No
	Williams Dairy / Millpoint Road Connector	Millpoint Rd. to Williams Dairy Rd.	0.6	N/A	2lane	Collector	No
	Summit Ave Extension (info only, not in LRTP)	Greenbrook Rd to Benaja Rd	1.4	N/A	2lane	Local	No
	Rankin Mill / Flemingfield Connector	South of Keeley Rd. to Huffine Mill Rd.	0.7	2 lane	3 lane	Collector	No
	High Rock Road Extension	US 70 to Frieden Church Rd. (connect & improve existing facilities)	5.5	2 lane	2 lane	Collector	No
	Wades Store Road Extension	Mt. Hope Church Rd. to Alamance Church Rd.	1.7	2 lane	2 lane	Local	No
	NC 62 / Liberty Road	New Garden Rd. to Bulb Rd.	1.1	2 lane	2 lane	Major Collector	No
	Strawberry Road Extension	NC 150 to Lake Brandt Rd.	1.4	2 lane	2 lane	Local	No
	Nealtown Road / McKnight Mill Road Connector and Extension	Huffine Mill Rd. to Eckerson Rd. (connect & improve existing facilities)	4	2 lane	2-3 lane	Major Collector	No
	Bishops Road – Ritters Lake Road Connector	S. Holden Rd. to Ritters Lake Rd.	0.8	2 lane	3 lane	Collector	No
	Hicone Road Widening	US 29 to Hines Chapel Rd.	3.3	2 lane	5 lane	Minor Arterial	No

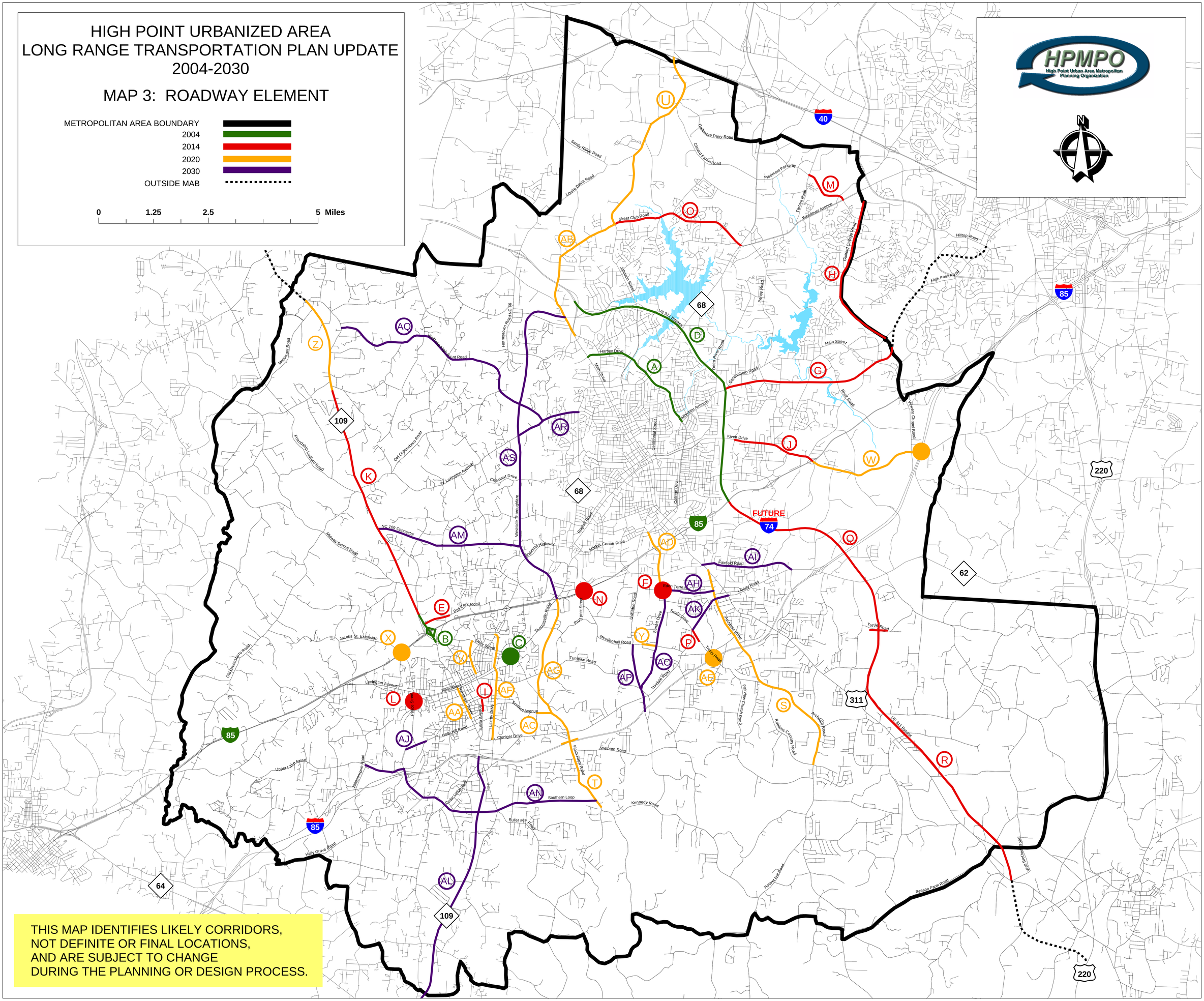
Greensboro Urban Area
2030 Multi-Modal Long Range Transportation Plan
List of Exempt TIP Projects in the Guilford County Area

Exempt Projects

FACILITY	TIP #	DESCRIPTION	MILES	# LANES	HORIZON YR # LANES	FEDERAL FUNCTIONAL CLASS	REGIONAL SIGNIFICANT	CMAQ
2005-2014 Horizon Year – Greensboro MPO Area								
Greensboro Signal/ITS System	U-4711		n/a	n/a	n/a	n/a	No	Yes
2021-2030 Horizon Year – Greensboro MPO Area								
Franklin Road		Railroad Grade Separtation						
Ward Road		Railroad Grade Separtation						
Mackay Road		Railroad Grade Separtation						
Hilltop Road		Railroad Grade Separtation						
Aycock Street		Railroad underpass replacement (conjunction w/ PART)						
East Market Street		Railroad underpass replacement (conjunction w/ PART)						
South Dudley Street		Railroad Grade Separtation						
South English Street		Railroad Grade Separtation						
Colony Road		Railroad Grade Separtation						
Tate Street		Railroad Grade Separtation						
Benbow Road		Railroad Grade Separtation						

HIGH POINT URBANIZED AREA
LONG RANGE TRANSPORTATION PLAN UPDATE
2004-2030

MAP 3: ROADWAY ELEMENT



THIS MAP IDENTIFIES LIKELY CORRIDORS,
NOT DEFINITE OR FINAL LOCATIONS,
AND ARE SUBJECT TO CHANGE
DURING THE PLANNING OR DESIGN PROCESS.

HIGH POINT URBAN AREA PROJECTS
For the Guilford and Davidson County Areas

Horizon Year 2005-2010 / High Point Urban Area MPO

TIP#	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	Regionally Significant?
U-2913	Jamestown/ High Point	Guilford College Road (SR 1546), from High Point Rd. (SR 4121) to south of Wendover Ave. (SR 1541), Widen roadway to a multi-lane facility.	4.2	4/5	4/5	Minor Arterial	Yes
U-2717	High Point	Kivett Dr. (SR 1113), from Pendleton Street to US 29-70, Widen roadway to a multi-lane curb and gutter facility.	2.5	4/5	4/5	Other Principal Arterial	Yes
n/a	Thomasville	Ball Park Road Ext., from Ball Park Road to NC 109.	0.6	2	2	n/a	No
U-2702	Archdale/ High Point	Eden Terrace (SR 1592) and Surrett Dr. (SR 1595), Improve intersection.	n/a	n/a	n/a	n/a	No
U-3336	Thomasville	Julian Ave. (SR 2185), from Broad Street to Warner Street, Widen roadway to a multi-lane facility.	0.3	4/5	4/5	n/a	No
U-3122	Thomasville	Peace Street, Construct a grade separation at Southern Railway Crossing 722 320U.	n/a	3	3	n/a	No
U-4017	High Point	Piedmont Pkwy extension, from Tarrant Rd. to W. Wendover Ave., Multi-lane facility on new location.	1.0	4 divided	4 divided	Local	No
n/a	Trinity/ Archdale	Trinity Road/ Sealy Drive realignment, Realign both roadways so that the existing offset is eliminated	n/a	n/a	n/a	n/a	No

Horizon Year 2011-2020 / High Point Urban Area MPO

TIP#	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	Regionally Significant?
U-2412	Jamestown/ High Point/ Greensboro	Greensboro-High Point Road (SR 4121), from proposed US 311 Bypass to relocated Guilford College Road (SR 1546), Widen roadway to multi-lanes and construct multi-lanes on new location.	4.9	4 divided	4 divided	Other Principal Arterial	Yes
R-2568BC	Thomasville/ Davidson County	NC 109, from south of SR 1800 to south of SR 1755, Widen roadway to multi-lane facility with portions on new location.	5.9	4/5	4/5	Other Principal Arterial	Yes
R-609IA & IB	High Point	US 311 Bypass, from US 29-70 (I-85 Business) to SR 1920, Four lane divided facility on new location.	6.7	4 freeway	4 freeway	Freeway/ Expressway	Yes
U-3434	High Point/ Trinity	Prospect St. (SR 1619) at I-85 Bus./US 29-70, Replace bridge No. 136 and No. R118 (formerly B-2856).	n/a	n/a	n/a	n/a	No
U-3615B	High Point	Skeet Club Road, from NC 68 to Johnson Street, Widen roadway to a four lane facility.	3.3	4/5	4/5	Minor Arterial	No
n/a	High Point	Johnson Street/Sandy Ridge Road widening, from Skeet Club Rd. to Interstate 40	4.4	N/A	4 divided	Minor Arterial	Yes
n/a	High Point	Kivett Dr. (SR 1113), from Business 85 (US 29-70) to Interstate 85, Widen roadway to a multi-lane curb and gutter facility and add new interchange at I-85.	2.7	N/A	4/5	Other Principal Arterial	Yes
R-2568D	Thomasville/ Davidson County	NC 109, from south of SR 1755 to north of SR 1723, Widen roadway to multi-lane facility with portions on new location.	2.7	N/A	4/5	Other Principal Arterial	Yes
U-4411	Thomasville	Randolph St. (NC 109), from Royal Oaks St. to Main St. (SR 2123), Widening to multi-lane section.	0.8	N/A	4/5	Other Principal Arterial	Yes
n/a	Trinity/ Archdale	Trinity Road/ I-85 interchange, Construction of a trumpet interchange.	n/a	N/A	n/a	n/a	Yes
U-2537A	High Point/ Thomasville/ Trinity	Westside Thoroughfare, from I-85 to Bus. 85, New multi-lane facility.	3.0	N/A	4 divided	Other Principal Arterial	Yes
U-3400	Archdale	Archdale Rd. (SR 1577/SR 1004), from Robbins Country Rd. (SR 1567) to Main St. (US 311), Widen to a multi-lane facility.	3.1	N/A	4 divided	Minor Arterial	No
n/a	Trinity	Finch Farm Road, from Interstate 85 to Trinity city limits, Widening to a multi-lane facility.	1.7	N/A	4 divided	Minor Arterial	No
n/a	Thomasville	Julian Avenue extension, from north of East Guilford Street to Unity Street, Extend a four lane facility.	0.8	N/A	4/5	n/a	No
n/a	Thomasville	MLK Dr./ Jacobs St. extension/ Business 85 interchange, Construction of a new interchange.	n/a	N/A	n/a	n/a	No

n/a	Trinity	Mendenhall Rd./Mendenhall Rd. Ext. realignment, Realign both roadways so that the existing offset is eliminated	n/a	N/A	n/a	n/a	No
U-3615A	High Point	Skeet Club Road, from Johnson Street to US 311, Widen roadway to a four lane facility.	3.0	N/A	4/5	Minor Arterial	No
n/a	Trinity/ Thomasville	E. Sunrise Avenue extension, from County Line Road to Unity Street.	0.3	N/A	2	Local	No
U-3432	High Point/ Archdale	Surrett Dr. (SR 1216), from Eden Terrace to Market Center Drive, Widen to multi-lanes.	1.5	N/A	4 divided	Minor Arterial	No
U-4420	Thomasville	Turner St. (SR 2165)/Liberty Dr.(SR 2055), from National Highway (SR 2123) to Cloniger St.(NC 62), Widening to a four lane facility.	2.4	N/A	4/5	Minor Arterial	No

Horizon Year 2021-2030 / High Point Urban Area MPO

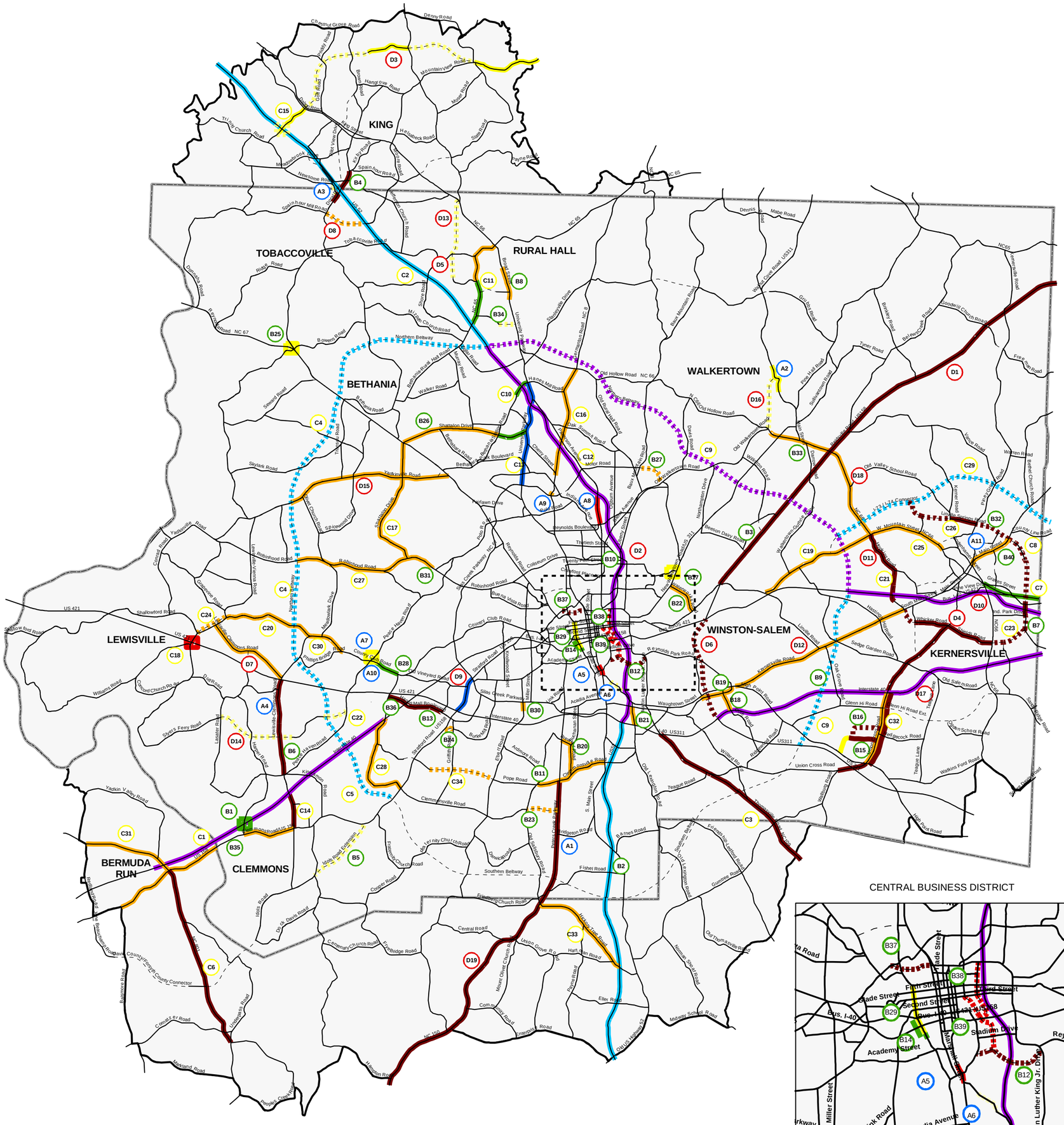
TIP#	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	Regionally Significant?
n/a	Thomasville/ High Point	NC 109 Connector, from NC 109 to proposed Westside Thoroughfare, New multi-lane facility connection.	3.1	3.1	4/5	Other Principal Arterial	Yes
U-2537BC	High Point/ Thomasville/ Trinity	Westside Thoroughfare, from Bus. 85 to US 311 Bypass, New multi-lane facility.	7.5	7.5	4 divided	Other Principal Arterial	Yes
n/a	Archdale	Eden Terrace Rd. (SR 1592), from Archdale Rd to Surrett Dr., Widening to multi-lane facility.	1.1	1.1	4 divided	Local	No
U-3433	High Point	E. Fairfield Rd (NC 610), from S. Main Street (US 311) to Liberty Rd. (NC 62), Widen roadway to multi-lanes.	2.1	2.1	4/5	Minor Arterial	No
n/a	Thomasville	Holly Hill Road Connector, from West Holly Hill Rd to Baptist Childrens Home Road, New 2-lane facility.	0.6	0.6	2	Minor Arterial	No
n/a	Archdale	NC 62, from US 311 to Trinity Rd., Widening to three lanes.	1.4	1.4	3	Minor Arterial	No
n/a	Thomasville	NC 109, from Interstate 85 to NC 47, Widen to multi-lane facility.	16.9	16.9	4/5	Minor Arterial	No
n/a	Thomasville	Southern Loop, from existing Johnsontown Rd. to Finch Farm Rd., New 2-lane facility.	4.0	4.0	2	Minor Arterial	No
n/a	Trinity	Surrett Drive, from Eden Terrace to Interstate 85, Widening to multi-lanes.	2.7	2.7	4 divided	Collector	No
n/a	Trinity	Uwharrie Road extension, from Uwharrie Rd. to Surrett Dr., Multi-lane extension on new location.	1.1	1.1	2	Collector	No
n/a	Davidson County	Wallburg/ High Point Road, from West Lexington Avenue to NC 109, Widening to a multi-lane facility.	5.7	5.7	4 divided	Minor Arterial	No

WINSTON-SALEM URBAN AREA FISCALLY CONSTRAINED TRANSPORTATION PLAN 2030 NETWORK MAP

Legend

- 2 LANE
- 2 LANE NEW
- 3 LANE
- 3 LANE NEW
- 4 LANE
- 4 LANE NEW
- 4 LANE DIVIDED
- 4 LANE DIVIDED NEW
- 4 LANE FREEWAY
- 4 LANE FREEWAY NEW
- 5 LANE
- 6 LANE DIVIDED
- 6 LANE FREEWAY
- 6 LANE FREEWAY NEW
- A1 2004 IMPROVEMENTS
- B1 2014 IMPROVEMENTS
- C1 2020 IMPROVEMENTS
- D1 2030 IMPROVEMENTS

1 0.5 0 1 2 Miles



September 30, 2005
Prepared by Winston-Salem DOT
For Project Information See Accompanying Tables

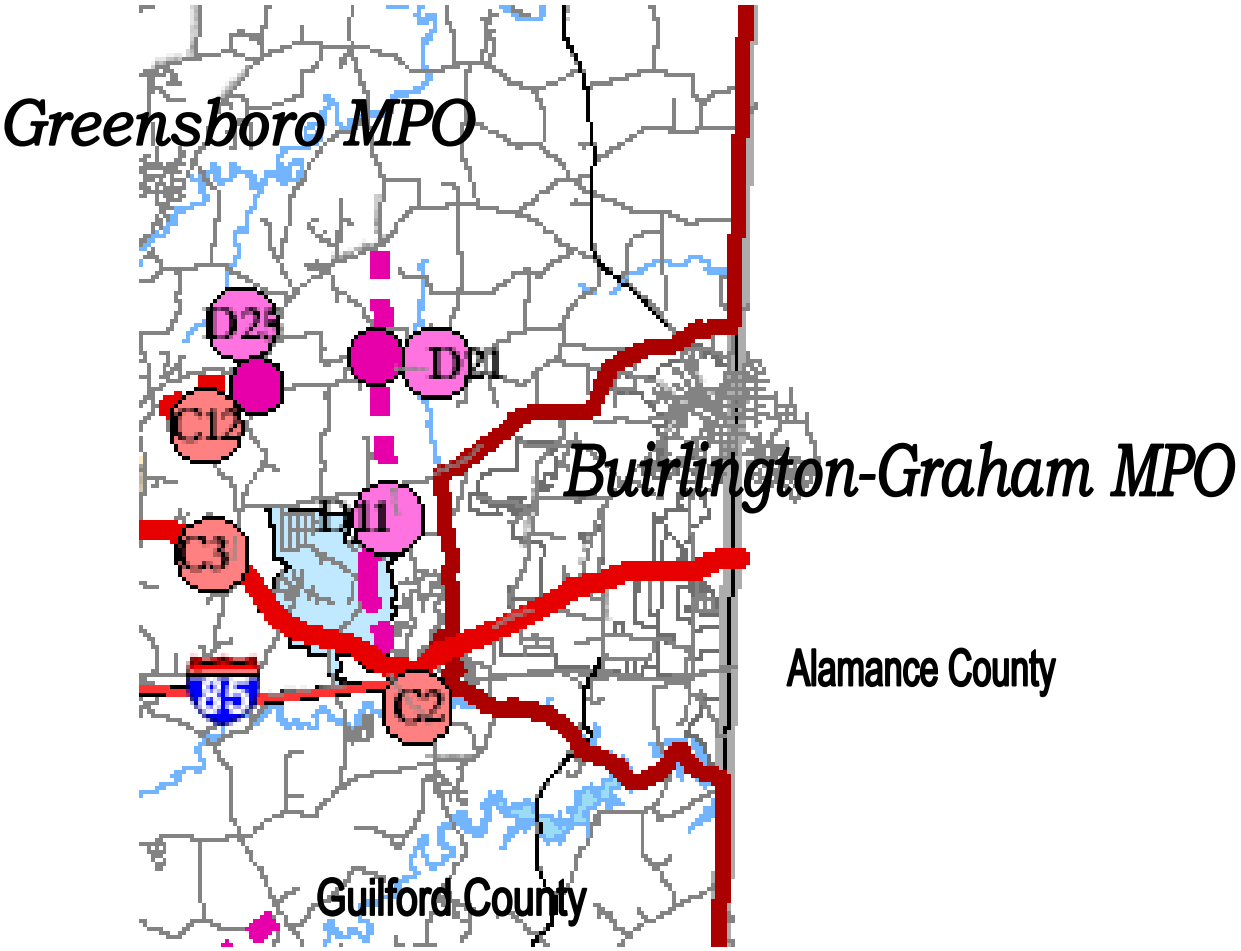
WINSTON-SALEM URBAN AREA PROJECTS
For the Guilford and Davidson County Areas

TIP#	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	Regionally Significant?
Horizon Year 2005-2010 / Winston-Salem Urban Area MPO							
R-4750	US 52 (Future I-285)	I-85 in Davidson County to I-40 in Forsyth County. Upgrade Existing Roadway to Interstate Standards	23.0	4 lane freeway	4 lane Interstate	Freeway/Expressway	Yes
Horizon Year 2011-2020 / Winston-Salem Urban Area MPO							
R-2568	NC 109	South of I-85 Business in Thomasville to I-40/US 311 in Winston-Salem. Widen to Multi-Lanes with Bypass of Wallburg. Some New Location.	13.5	2 lane	4 lane divided	Minor Arterial	Yes
U-3617	SR 2045 East Mountain Street/Old US 421, SR 1005, SR 1008	NC 66 in Kernersville to SR 2001 (Winthrop Street) in Guilford County. Widen to Multi-Lanes.	2.8 (1.5)	2 lane	5 lane	Collector/Minor Arterial	Yes
	I-73 – I-74 Connector (Regional Airport Connector)	Northern Beltway/West Mountain Street to Guilford County	6.9		New 4 lane freeway	Proposed Freeway/Expressway	Yes
Horizon Year 2021-2030 / Winston-Salem Urban Area MPO							
n/a	High Point	West Lexington Avenue (SR 1768), from Westchester Drive to proposed Westside Thoroughfare, Widening to multi-lane facility.	1.5	4/5	4 lane divided	Other Principal Arterial	Yes

Winston-Salem Urban Area
2030 Multi-Modal Long Range Transportation Plan
List of Exempt TIP Projects in
Guilford and Davidson Counties

Project Title	Project Description	STIP Number, Needs Priority, Map Code(s)	Estimated Project Cost ($000)	Estimated Urban Area Portion Cost ($000)	Prior Years Cost ($000)	STIP Funding Sources ($000) NHS	STP	IM/ IMPM	CMAQ and Federal Aid	State	Trust Fund	Other	STIP Funding Sources Total ($000)	Post Year Costs ($000)	Post Year Constrained Network Breakdown ($000) By 2014 Federal	By 2014 State	By 2020 Federal	By 2020 State	By 2030 Federal	By 2030 State	All Years Local	Project Status, Notes
Street and Highway Projects																						
Interstate 40*	Pavement Rehabilitation	I-3600	9000	4500	200			4300					4300	0								Construction
US 52 (Future Interstate 74)*	Upgrade to Interstate 74	R-3441	101200	43000	0								0	43000	43000							Planning
Grand Totals (in $000)			110200	47500	200	0	0	4300	0	0	0	0	4300	43000	43000	0	0	0	0	0	0	
STIP Annual Average (in $000)						0	0	538	0	0	0	0	537.5							43000		
Federal Programs Total (in $000)													4300									
Annual Federal Average (in $000)													537.5									
State Programs Total (in $000)													0									
Annual State Average (in $000)													0									
Notes: * = Project Extends Beyond MPO Boundary																						

Burlington-Graham Urban Area MPO LRTP for the PM Non-Attainment Area



BURLINGTON-GRAHAM URBAN AREA PROJECTS
For the Guilford and Davidson County Areas

Horizon Year **2010-2020** / Burlington-Graham Urban Area MPO

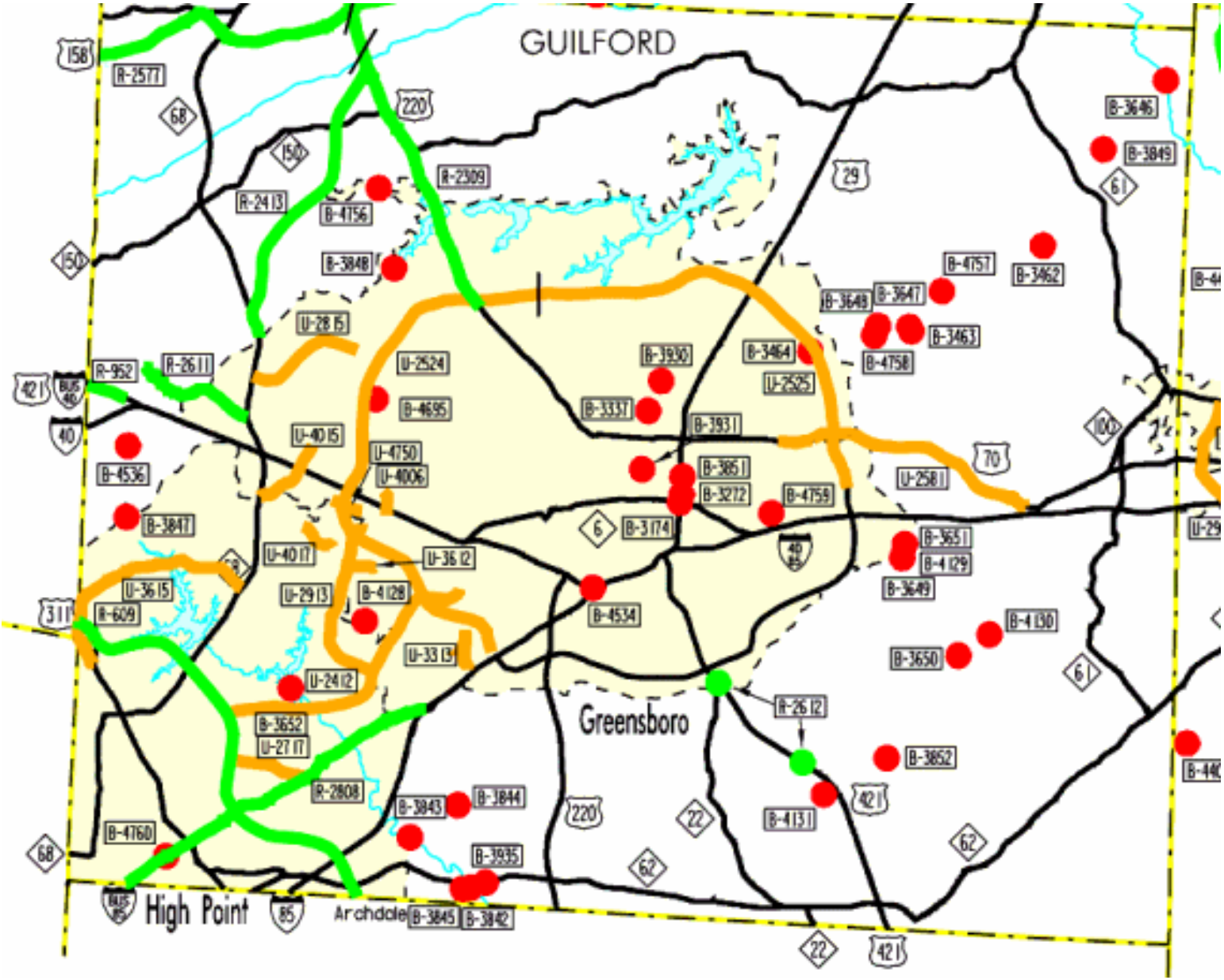
TIP#	Facility	Description / Extents	(miles)	# Lanes	# Lanes	Class	Significant?
R-2910	US70	St. Marks Ch. Rd. to MPO boundary	5.4	2-lane	5-lane		Yes

Horizon Year **2021-2030** / Burlington-Graham Urban Area MPO

TIP#	Facility	Description / Extents	Length (miles)	Existing # Lanes	Horizon Year # Lanes	Federal Functional Class	Regionally Significant?
	Gibsonville Bypass	Shallowford Ch. Rd. to NC61/100	4.3	n/a	2-lane		No

* There are no exempt projects for Burlington-Graham Urban Area

GUILFORD COUNTY 2006-2012 TIP PROJECTS



LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
INTERSTATE PROJECTS									
I-40 AND I-85	**I-3603**	WEST CITY LIMITS TO EAST CITY LIMITS IN GREENSBORO. INSTALL LIGHTING ON ROUTES.		3200		CONSTRUCTION UNFUNDED PROJECT	IM	3200	POST YEARS
I-40/85	**I-4715**	US 29 TO I-85 BYPASS. MILL AND RESURFACE.	5.2	2500		CONSTRUCTION	IM	2500	FFY 07
I-85/I-40	**I-4907**	EAST OF SR 3000 (MILEPOST 131) TO WEST OF NC 61 (MILEPOST 137). PAVEMENT REPAIR.	6.0	3500		CONSTRUCTION	IM	3500	FFY 08
US 220 FUTURE I-73	**I-4921**	SR 1462 (WEST PRESNELL STREET EXTENSION) IN ASHEBORO TO I-85 IN GREENSBORO. UPGRADE TO INTERSTATE STANDARDS.	23.0	65600		RIGHT-OF-WAY CONSTRUCTION UNFUNDED PROJECT ***STRATEGIC HIGHWAY CORRIDOR PROJECT***	NHS NHS	6900 58700	POST YEARS POST YEARS
RURAL PROJECTS									
I-40 BUSINESS/ US 421	**R-952**	WEST OF US 158 IN FORSYTH COUNTY TO WEST OF SR 1850 IN GUILFORD COUNTY. PAVEMENT AND BRIDGE REHABILITATION.	8.5	54381	27381	RIGHT-OF-WAY CONSTRUCTION PART UNDER CONSTRUCTION - PART UNFUNDED	NHS NHS	1000 26000	POST YEARS POST YEARS
US 15-501, US 29, US 158, US 220, US 421, NC 68	**R-4403**	NATIONAL HIGHWAY SYSTEM GUARDRAIL REHABILITATION. UPGRADE SUBSTANDARD GUARDRAIL, END TREATMENTS AND BRIDGE ANCHOR UNITS.		350		CONSTRUCTION	NHS	350	FFY 06
US 29-70 AND I-85 BUSINESS	**R-2808**	I-85 IN DAVIDSON COUNTY TO I-85 IN GUILFORD COUNTY. UPGRADE, SAFETY IMPROVEMENTS AND REPLACE BRIDGE NO. 74 AT SR 1627 (B-2163).	31.1	11395	5595	RIGHT-OF-WAY CONSTRUCTION PART COMPLETE - PART UNFUNDED ***STRATEGIC HIGHWAY CORRIDOR PROJECT***	STP STP	1200 4600	POST YEARS POST YEARS
US 70	**R-2910**	SR 3056 IN GUILFORD COUNTY TO SR 1309 IN ALAMANCE COUNTY. WIDEN TO FIVE LANES WITH CURB AND GUTTER.	5.4	15358	8	RIGHT-OF-WAY CONSTRUCTION UNFUNDED PROJECT	STP STP	1900 13450	POST YEARS POST YEARS
US 158	**R-2577 ***	MULTI-LANES NORTH OF US 421/I-40 BUSINESS IN WINSTON-SALEM TO US 220. WIDEN TO MULTI-LANES.	18.8	105500	500	PLANNING/DESIGN RIGHT-OF-WAY CONSTRUCTION RIGHT-OF-WAY CONSTRUCTION ***STRATEGIC HIGHWAY CORRIDOR PROJECT***	 T T T T	 7800 8033 11600 77567	IN PROGRESS SFY 10 SFY 12 POST YEARS POST YEARS
US 158	**R-2580 ***	US 220 TO US 29 BUSINESS (FREEWAY DRIVE). WIDEN TO MULTI-LANES.	15.0	82831	2631	RIGHT-OF-WAY CONSTRUCTION PART COMPLETE - PART UNFUNDED ***STRATEGIC HIGHWAY CORRIDOR PROJECT***	T T	11700 68500	POST YEARS POST YEARS
US 220	**R-2309**	SR 2182 (HORSEPEN CREEK ROAD) TO US 220-NC 68 CONNECTOR (R-2413). WIDEN TO MULTI-LANES.	6.3	49776	6401	PLANNING/DESIGN MITIGATION RIGHT-OF-WAY CONSTRUCTION PART COMPLETE	 NHS NHS NHS	 4675 7500 31200	IN PROGRESS FFY 07 FFY 07 FFY 09

*** INDICATES INTRASTATE PROJECT**

ALL SCHEDULES SUBJECT TO AVAILABILITY OF FUNDS

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
RURAL PROJECTS									
US 220-NC 68	**R-2413 ***	SR 2133 (PLEASANT RIDGE ROAD) TO US 220-NC 68. MULTI-LANE CONNECTOR, ON NEW LOCATION, NC 68 TO US 220 AND MULTI-LANE US 220 TO NC 68.	12.4	150500	26402	PLANNING/DESIGN			IN PROGRESS
						MITIGATION	T	3098	SFY 09
						RIGHT-OF-WAY	T	18200	SFY 09 10
						CONSTRUCTION	T	56692	SFY 08 12
						CONSTRUCTION	T	46108	POST YEARS
						STRATEGIC HIGHWAY CORRIDOR PROJECT			
US 311 BYPASS	**R-609**	HIGH POINT "EAST BELT", SOUTH OF SR 1920 EAST OF ARCHDALE TO WEST OF HIGH POINT RESERVOIR. FOUR LANES DIVIDED ON NEW LOCATION.	12.9	217496	138796	PLANNING/DESIGN			IN PROGRESS
						RIGHT-OF-WAY			PART IN ACQUISITION
						CONSTRUCTION	NHS	78700	FFY 06
						PART COMPLETE - PART UNDER CONSTRUCTION			
						STRATEGIC HIGHWAY CORRIDOR PROJECT			
US 421	**R-2612**	SR 3389 (WOODY MILL ROAD) AND NC 22 SOUTH OF GREENSBORO. CONVERT AT-GRADE INTERSECTIONS TO INTERCHANGES.		22138	600	PLANNING/DESIGN			IN PROGRESS
						MITIGATION	CMAQ	183	FFY 08
						RIGHT-OF-WAY	CMAQ	5055	FFY 07 12
						CONSTRUCTION	CMAQ	10700	FFY 09
						CONSTRUCTION	CMAQ	5600	POST YEARS
SR 1008 (WEST MARKET STREET)	**R-2611**	SR 2007 AT COLFAX TO NC 68. WIDEN TO MULTI-LANES.	3.6	16936	500	PLANNING/DESIGN			IN PROGRESS
						MITIGATION	STP	836	FFY 09
						RIGHT-OF-WAY	STP	2900	FFY 08
						CONSTRUCTION	STP	12700	FFY 10
GREENSBORO	**R-4707**	SR 2526 (SUMMIT AVENUE), SR 2641 (BRYAN PARK ROAD) TO US 29/SR 2790 (REEDY FORK PARKWAY) INTERCHANGE. CONSTRUCT ROADWAY IMPROVEMENTS AND REVISE INTERCHANGE		20020	320	RIGHT-OF-WAY	NHS	2800	POST YEARS
						CONSTRUCTION	NHS	16900	POST YEARS
						PROGRAMMED FOR PLANNING AND ENVIRONMENTAL STUDY ONLY			
URBAN PROJECTS									
ARCHDALE	**U-3400**	SR 1577-SR 1004 (ARCHDALE ROAD), SR 1567 (ROBBINS COUNTRY ROAD) TO US 311 (MAIN STREET). WIDEN TO MULTI-LANES.	3.1	22300		RIGHT-OF-WAY	STP	10100	POST YEARS
						CONSTRUCTION	STP	12200	POST YEARS
						UNFUNDED PROJECT			
COLFAX KERNERSVILLE	**U-3617**	SR 2045 (EAST MOUNTAIN STREET/OLD US 421), SR 1005, SR 1008, NC 66 IN KERNERSVILLE (FORSYTH COUNTY) TO SR 2001 (GUILFORD COUNTY). WIDEN TO MULTI-LANES.	2.8	19900		RIGHT-OF-WAY	STP	6000	POST YEARS
						CONSTRUCTION	STP	13900	POST YEARS
						UNFUNDED PROJECT			
GREENSBORO HIGH POINT	**U-2412**	SR 1486-SR 1421 (GREENSBORO-HIGH POINT ROAD), HILLTOP ROAD TO PROPOSED US 311 BYPASS. WIDEN TO MULTI-LANES, PART ON NEW LOCATION.	7.8	108520	1007	PLANNING/DESIGN			IN PROGRESS
						MITIGATION	STP	2113	FFY 07
						RIGHT-OF-WAY	STP	39400	FFY 07 08
						CONSTRUCTION	STP	48500	FFY 09 11
						CONSTRUCTION	STP	17500	POST YEARS

*** INDICATES INTRASTATE PROJECT**

ALL SCHEDULES SUBJECT TO AVAILABILITY OF FUNDS

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
URBAN PROJECTS									
GREENSBORO	**U-2524 ***	WESTERN LOOP, NORTH OF I-85 TO LAWNDALE DRIVE. CONSTRUCT FREEWAY ON NEW LOCATION.	15.0	558776	317778	PLANNING/DESIGN			IN PROGRESS
						RIGHT-OF-WAY			PART IN ACQUISITION
						RIGHT-OF-WAY	NHS	1000	FFY 07
						CONSTRUCTION	NHS	82833	FFY 06 09
						MITIGATION	NHS	5465	POST YEARS
						RIGHT-OF-WAY	T	20300	POST YEARS
						CONSTRUCTION	T	131400	POST YEARS
						PART COMPLETE - PART UNDER CONSTRUCTION			
						STRATEGIC HIGHWAY CORRIDOR PROJECT			
GREENSBORO	**U-2525 ***	EASTERN LOOP, LAWNDALE DRIVE TO NORTH OF I-40/85. CONSTRUCT FREEWAY ON NEW LOCATION.	15.4	262648	43782	PLANNING/DESIGN			IN PROGRESS
						MITIGATION	T	6166	SFY 10
						RIGHT-OF-WAY	T	23100	SFY 10
						RIGHT-OF-WAY	T	24800	POST YEARS
						CONSTRUCTION	T	164800	POST YEARS
						PART COMPLETE			
						STRATEGIC HIGHWAY CORRIDOR PROJECT			
GREENSBORO	**U-2581**	US 70, SR 2851 (PENRY ROAD) TO SR 3056 (ROCK CREEK DAIRY ROAD). WIDEN TO MULTI-LANES, SOME RELOCATION.	5.2	21470	6470	RIGHT-OF-WAY	STP	1800	POST YEARS
						CONSTRUCTION	STP	13200	POST YEARS
						PART COMPLETE - PART UNFUNDED			
GREENSBORO	**U-2815C**	BRYAN BOULEVARD, INMAN ROAD TO NC 68. RELOCATE ROADWAY.	1.9	51210	51210	UNDER CONSTRUCTION BY OTHERS			
GREENSBORO HIGH POINT	**U-2913**	SR 1546 (GUILFORD COLLEGE ROAD), SR 4121 (HIGH POINT ROAD) TO SOUTH OF HORNADAY ROAD. WIDEN TO MULTI-LANES.	4.5	28003	28003	PART COMPLETE - PART UNDER CONSTRUCTION			
GREENSBORO	**U-3313**	SR 1129 (GROOMETOWN ROAD), SR 1383 (WILEY DAVIS ROAD) TO SR 1479 (WAYNE ROAD). WIDEN TO A FOUR-LANE DIVIDED CURB AND GUTTER FACILITY WITH A RAISED GRASS MEDIAN.	1.2	11800	5900	PLANNING/DESIGN			IN PROGRESS
						RIGHT-OF-WAY			IN ACQUISITION
						CONSTRUCTION	STP	5900	FFY 06
GREENSBORO	**U-3314**	I-40/85 CORRIDOR. IVHS TO INCLUDE VARIABLE MESSAGE SIGNS, TRAFFIC FLOW, INCIDENT MANAGEMENT SIGNS, COMMUNICATIONS SYSTEMS, COORDINATED SIGNALS, TRAFFIC OPERATIONS CENTER AND VIDEO SURVEILLANCE		18400	1200	CONSTRUCTION	S	17200	POST YEARS
						PART COMPLETE - PART UNFUNDED			
GREENSBORO	**U-3612**	SR 1424 (HILLTOP ROAD), SR 1546 (GUILFORD COLLEGE ROAD) TO ADAMS FARM PARKWAY. WIDEN TO MULTI-LANES.	0.6	3807	1157	PLANNING/DESIGN			IN PROGRESS
						RIGHT-OF-WAY			IN ACQUISITION
						CONSTRUCTION	STP	2650	FFY 06
GREENSBORO	**U-4006**	BRIDFORD PARKWAY, SR 1541 (WENDOVER AVENUE) AT HORNADAY ROAD TO BURNT POPLAR ROAD AT SWING ROAD. MULTI-LANE CONNECTOR ON NEW LOCATION.	1.1	12991	315	PLANNING/DESIGN			IN PROGRESS
						MITIGATION	STP	376	FFY 07
						RIGHT-OF-WAY	STP	3100	FFY 06
						CONSTRUCTION	STP	9200	FFY 08

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
URBAN PROJECTS									
GREENSBORO	**U-4015**	SR 1556 (GALLIMORE DAIRY ROAD), NC 68 TO SR 1008 (MARKET STREET) . WIDEN TO MULTI-LANES.	1.6	11560	3110	PLANNING/DESIGN			IN PROGRESS
						RIGHT-OF-WAY	STP	1650	FFY 12
						CONSTRUCTION	S	2000	SFY 08
						CONSTRUCTION	STP	4800	POST YEARS
						PART UNDER CONSTRUCTION			
GREENSBORO	**U-4711**	GREENSBORO SIGNAL/ITS SYSTEM REPLACEMENT AND EXPANSION.		15450		PLANNING/DESIGN			FFY 07
						CONSTRUCTION	C	6650	FFY 08
						CONSTRUCTION	CMAQ	8800	FFY 08
GREENSBORO	**U-4745**	BATTLEGROUND AVENUE ASSESSMENT: CONE BOULEVARD TO WEST WENDOVER AVENUE CORRIDOR. I-40 INTERCHANGE IMPROVEMENTS AT WEST WENDOVER AVENUE.		200	200	UNDER CONSTRUCTION			
GREENSBORO	**U-4746**	PURCHASE 8 BUSES FOR GTA FLEET EXPANSION		1710	1710	IN PROGRESS			
GREENSBORO	**U-4747**	EAST WENDOVER AVENUE, HOMELAND AVENUE TO AUNT MARY AVENUE. WEST WENDOVER AVENUE, EDWARDIA DRIVE TO CLIFTON ROAD. CONSTRUCT SIDEWALKS		727		CONSTRUCTION	C	294	FFY 07
						CONSTRUCTION	STP	433	FFY 07
GREENSBORO	**U-4750**	EXTENSION OF HORNADAY ROAD, CURRENT TERMINUS TO CHIMNEY ROCK ROAD, INCLUDING A GRADE SEPARATION OVER THE GREENSBORO URBAN LOOP.		3200		CONSTRUCTION	S	3200	SFY 07
						PLANNING, DESIGN, AND CONSTRUCTION BY CITY			
GREENSBORO	**U-4757**	INTERSECTIONS OF MARKET STREET AND GALLIMORE DAIRY ROAD AND MARKET STREET AND FRIENDLY AVENUE. CONSTRUCT IMPROVEMENTS.		2000		RIGHT-OF-WAY	STP	500	POST YEARS
						CONSTRUCTION	STP	1500	POST YEARS
						UNFUNDED PROJECT			
HIGH POINT	**U-2537**	NORTH-SOUTH CONNECTOR, I-85 TO US 311 BYPASS. MULTI-LANES ON NEW LOCATION.	10.5	169800	500	PLANNING/DESIGN			IN PROGRESS
						RIGHT-OF-WAY	STP	12000	POST YEARS
						CONSTRUCTION	STP	157300	POST YEARS
						UNFUNDED PROJECT			
HIGH POINT	**U-2717**	SR 1113 (KIVETT DRIVE), PENDLETON STREET TO US 29-70. WIDEN TO MULTI-LANES WITH CURB AND GUTTER AND REPLACEMENT OF BRIDGE NO. 218.	2.1	23928	10844	CONSTRUCTION	STP	13084	FFY 06
						UNDER CONSTRUCTION			
HIGH POINT	**U-3432**	SR 1595-SR 1216 (SURRETT DRIVE), EDEN TERRACE TO MARKET CENTER DRIVE. WIDEN TO MULTI-LANES.	1.5	18400		RIGHT-OF-WAY	STP	7800	POST YEARS
						CONSTRUCTION	STP	10600	POST YEARS
						UNFUNDED PROJECT			
HIGH POINT	**U-3433**	NC 610 (EAST FAIRFIELD ROAD), US 311 (SOUTH MAIN STREET) TO NC 62 (LIBERTY STREET). WIDEN TO MULTI-LANES.	2.1	18800		RIGHT-OF-WAY	STP	9100	POST YEARS
						CONSTRUCTION	STP	9700	POST YEARS
						UNFUNDED PROJECT			
HIGH POINT	**U-3615**	SR 1003-SR 1820 (SKEET CLUB ROAD), US 311 TO NC 68 (EASTCHESTER DRIVE). WIDEN TO MULTI-LANES.	6.3	47195	1050	PLANNING/DESIGN			IN PROGRESS
						MITIGATION	STP	2245	FFY 08
						RIGHT-OF-WAY	STP	13500	FFY 07 12
						CONSTRUCTION	STP	15000	FFY 09
						CONSTRUCTION	STP	15400	POST YEARS

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
URBAN PROJECTS									
HIGH POINT	**U-4017**	PIEDMONT PARKWAY, SR 1552 (TARRANT ROAD) TO SR 1541 (WENDOVER AVENUE). FOUR LANE DIVIDED FACILITY ON NEW LOCATION.	1.0	9015	1015	PLANNING/DESIGN			IN PROGRESS
						RIGHT-OF-WAY			IN ACQUISITION
						CONSTRUCTION	S	6000	SFY 06
						CONSTRUCTION	O	2000	FFY 06
						PART RIGHT OF WAY BY OTHERS			
HIGH POINT	**U-4758**	JOHNSON STREET/SANDY RIDGE ROAD, SKEET CLUB ROAD TO I-40. WIDEN TO MULTI-LANES.	4.4	25300		RIGHT-OF-WAY	STP	5000	POST YEARS
						CONSTRUCTION	STP	20300	POST YEARS
						UNFUNDED PROJECT			
FEASIBILITY STUDIES									
FUTURE I-73	**FS-0507A**	STUDY TO DETERMINE ROUTING OF FUTURE I-73 IN THE GREENSBORO AREA.				FEASIBILITY STUDY IN PROGRESS			
GREENSBORO	**FS-0207A**	SR 1840 (PEGG ROAD) TO SR 1842 (THATCHER ROAD) CONSTRUCT CONNECTOR.	2.1			FEASIBILITY STUDY IN PROGRESS			
GREENSBORO	**FS-0207B**	US 29, I-85 TO 16TH STREET. UPGRADE ROADWAY.	4.1			FEASIBILITY STUDY IN PROGRESS BY CITY OF GREENSBORO			
FEDERAL BRIDGE PROJECTS									
I-40/US 220	**B-4534**	I-85. REHABILITATE BRIDGE NO. 336		6000	500	RIGHT-OF-WAY	FA	500	FFY 10
						CONSTRUCTION	FA	5000	FFY 11
US 29-70-220	**B-3174**	NC 6 (EAST LEE STREET). REPLACE BRIDGE NO. 306 (LET WITH B-3272)		8651	8651	UNDER CONSTRUCTION AS DESIGN-BUILD PROJECT - INCLUDES W-4419			
NC 62	**B-3842**	DEEP RIVER. REPLACE BRIDGE NO. 24		3307	3307	UNDER CONSTRUCTION - PIEDMONT TRIAD WATER AUTHORITY PROJECT			
NC 62	**B-3935**	STREAM. REPLACE BRIDGE NO. 49		791	791	UNDER CONSTRUCTION			
SR 1001	**B-3337**	NORTH BUFFALO CREEK. REPLACE BRIDGE NO. 527		1970	470	RIGHT-OF-WAY			IN ACQUISITION
						CONSTRUCTION	FA	1500	FFY 06
SR 1105	**B-4956**	POLE CAT CREEK. REPLACE BRIDGE NO. 25		990		RIGHT-OF-WAY	NFA	90	FFY 11
						CONSTRUCTION	NFA	900	FFY 12
SR 1129	**B-3843**	DEEP RIVER. REPLACE BRIDGE NO. 31		3231	3231	UNDER CONSTRUCTION - PIEDMONT TRIAD WATER AUTHORITY PROJECT			
SR 1132	**B-3844**	HICKORY CREEK. REPLACE BRIDGE NO. 29		2871	2871	UNDER CONSTRUCTION - PIEDMONT TRIAD WATER AUTHORITY PROJECT			
SR 1138	**B-3845**	BRANCH. REPLACE BRIDGE NO. 33		1507	1507	UNDER CONSTRUCTION - PIEDMONT TRIAD WATER AUTHORITY PROJECT			
SR 1193	**B-4957**	TWO MILE CREEK. REPLACE BRIDGE NO. 56		1980		RIGHT-OF-WAY	NFA	180	FFY 10
						CONSTRUCTION	NFA	1800	FFY 11
SR 1549	**B-4128**	BULL RUN CREEK. REPLACE BRIDGE NO. 73		2370	100	RIGHT-OF-WAY	FA	170	FFY 06
						CONSTRUCTION	FA	2100	FFY 07
SR 1850	**B-3847**	DEEP RIVER. REPLACE BRIDGE NO. 63		765	165	RIGHT-OF-WAY			IN ACQUISITION
						CONSTRUCTION	NFA	600	FFY 06

*** INDICATES INTRASTATE PROJECT**

ALL SCHEDULES SUBJECT TO AVAILABILITY OF FUNDS

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
FEDERAL BRIDGE PROJECTS									
SR 1859	**B-4536**	DEEP RIVER. REPLACE BRIDGE NO. 338		375	45	RIGHT-OF-WAY	NFA	30	FFY 07
						CONSTRUCTION	NFA	300	FFY 08
SR 2124	**B-3848**	BRUSH CREEK. REPLACE BRIDGE NO. 102		990	165	RIGHT-OF-WAY			IN ACQUISITION
						CONSTRUCTION	FA	825	FFY 06
SR 2128	**B-4756**	REEDY FORK CREEK. REPLACE BRIDGE NO. 120		1650		RIGHT-OF-WAY	NFA	150	FFY 09
						CONSTRUCTION	NFA	1500	FFY 10
SR 2128	**B-4958**	REEDY FORK ROAD. REPLACE BRIDGE NO. 106		1650		RIGHT-OF-WAY	NFA	150	FFY 11
						CONSTRUCTION	NFA	1500	FFY 12
SR 2712	**B-3646**	HAW RIVER. REPLACE BRIDGE NO. 185		1038	1038	UNDER CONSTRUCTION			
SR 2717	**B-3849**	PRONG OF REEDY FORK CREEK. REPLACE BRIDGE NO. 188		440	90	RIGHT-OF-WAY			IN ACQUISITION
						CONSTRUCTION	NFA	350	FFY 06
						PURCHASE ORDER CONTRACT (POC)			
SR 2719	**B-4959**	BUFFALO CREEK. REPLACE BRIDGE NO. 193		1320		RIGHT-OF-WAY	NFA	120	FFY 11
						CONSTRUCTION	NFA	1200	FFY 12
SR 2770	**B-3462**	BUFFALO CREEK. REPLACE BRIDGE NO. 194		1531	1531	UNDER CONSTRUCTION			
SR 2770	**B-3647**	NORTH BUFFALO CREEK. REPLACE BRIDGE NO. 172		915	915	UNDER CONSTRUCTION AS DESIGN-BUILD PROJECT - LET WITH B-3463			
SR 2784	**B-3648**	NORTH BUFFALOE CREEK. REPLACE BRIDGE NO. 158		850	850	UNDER CONSTRUCTION			
SR 2795	**B-4757**	BUFFALO CREEK. REPLACE BRIDGE NO. 175		1100		RIGHT-OF-WAY	NFA	100	FFY 08
						CONSTRUCTION	NFA	1000	FFY 09
SR 2819	**B-3463**	SOUTH BUFFALO CREEK. REPLACE BRIDGE NO. 171		3377	3377	UNDER CONSTRUCTION AS DESIGN-BUILD PROJECT - LET WITH B-3647.			
SR 2824	**B-4758**	NORTH BUFFALO CREEK. REPLACE BRIDGE NO. 159		1100		RIGHT-OF-WAY	NFA	100	FFY 08
						CONSTRUCTION	NFA	1000	FFY 09
SR 2832	**B-3464**	NORTH BUFFALO CREEK. REPLACE BRIDGE NO. 162		1441	1441	UNDER CONSTRUCTION			
SR 3000	**B-3649**	LITTLE ALAMANCE CREEK. REPLACE BRIDGE NO. 227		1211	1211	UNDER CONSTRUCTION			
SR 3000	**B-4129**	LITTLE ALAMANCE CREEK. REPLACE BRIDGE NO. 226		1490	150	RIGHT-OF-WAY	NFA	90	FFY 06
						CONSTRUCTION	NFA	1250	FFY 07
SR 3000	**B-4759**	SOUTH BUFFALO CREEK. REPLACE BRIDGE NO. 224		1650		RIGHT-OF-WAY	NFA	150	FFY 08
						CONSTRUCTION	NFA	1500	FFY 09
SR 3045	**B-4130**	ALAMANCE CREEK. REPLACE BRIDGE NO. 228		1800	150	RIGHT-OF-WAY	NFA	100	FFY 06
						CONSTRUCTION	NFA	1550	FFY 07
SR 3051	**B-4961**	LITTLE ALAMANCE CREEK. REPLACE BRIDGE NO. 208		1320		RIGHT-OF-WAY	NFA	120	FFY 11
						CONSTRUCTION	NFA	1200	FFY 12

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
FEDERAL BRIDGE PROJECTS									
SR 3058	**B-4960**	LITTLE ALAMANCE CREEK. REPLACE BRIDGE NO. 214		1100		RIGHT-OF-WAY CONSTRUCTION	NFA NFA	100 1000	FFY 10 FFY 11
SR 3092	**B-3650**	ALAMANCE CREEK. REPLACE BRIDGE NO. 250		910	910	UNDER CONSTRUCTION			
SR 3143	**B-3651**	PRONG ALAMANCE CREEK. REPLACE BRIDGE NO. 359		2010	2010	UNDER CONSTRUCTION			
SR 3163	**B-3851**	US 29. REPLACE BRIDGE NO. 21		10324	10324	UNDER CONSTRUCTION			
SR 3389	**B-3852**	ALAMANCE CREEK. REPLACE BRIDGE NO. 449		1950	250	RIGHT-OF-WAY CONSTRUCTION DESIGN-BUILD PROJECT	 NFA	 1700	IN ACQUISITION FFY 06
SR 3394	**B-4131**	LITTLE ALAMANCE CREEK. REPLACE BRIDGE NO. 11		1875	150	RIGHT-OF-WAY CONSTRUCTION	NFA NFA	350 1375	FFY 06 FFY 07
SR 4121	**B-3652**	DEEP RIVER. REPLACE BRIDGE NO. 20		2240	340	RIGHT-OF-WAY CONSTRUCTION	 NFA	 1900	IN ACQUISITION FFY 06
GREENSBORO	**B-3272**	MCCONNELL STREET. REPLACE BRIDGE NO. 318 OVER US 29-70-220 (LET WITH B-3174)		3019	3019	UNDER CONSTRUCTION AS DESIGN-BUILD PROJECT			
SURRETT DRIVE	**B-4760**	US 29/US 70/I-85 BUSINESS. REPLACE BRIDGE NO. 77		2200		RIGHT-OF-WAY CONSTRUCTION	NFA NFA	200 2000	FFY 08 FFY 09
VARIOUS	**B-4907**	ENVIRONMENTAL MITIGATION FOR BRIDGE PROJECTS IN DIVISION 7.		3994	3994	IN PROGRESS			
MUNICIPAL BRIDGE PROJECTS									
GREENSBORO	**B-3930**	16TH STREET OVER NORFOLK-SOUTHERN RAILWAY. REPLACE BRIDGE NO. 579		3134	384	CONSTRUCTION	NFAM	2750	FFY 06
GREENSBORO	**B-4695**	BALLINGER ROAD OVER HORSEPEN CREEK. REPLACE BRIDGE NO. 97		610	60	RIGHT-OF-WAY CONSTRUCTION	NFAM NFAM	50 500	FFY 06 FFY 07
HIGH POINT	**B-3931**	LINDSAY STREET OVER NORFOLK-SOUTHERN RAILROAD REPLACE BRIDGE NO. 386		2927	2927	UNDER CONSTRUCTION			
BICYCLE AND PEDESTRIAN PROJECTS									
GREENSBORO	**E-4709**	BATTLEGROUND AVENUE RAIL-TRAIL, PISGAH CHURCH ROAD TO MARKLAND DRIVE	1.0	1285		CONSTRUCTION CONSTRUCTION	C STP	177 1108	FFY 06 FFY 06
ENHANCEMENT PROJECTS									
GREENSBORO	**E-4542**	BICENTENNIAL GREENWAY, GALLIMORE DAIRY ROAD TO CHIMNEY ROCK ROAD. CONSTRUCT MULTI-USE TRAIL. CHIMNEY ROCK ROAD, GALLIMORE DAIRY ROAD TO BOULDER ROAD, CONSTRUCT SIDEWALK AND CURB AND GUTTER.		1007	1007	UNDER CONSTRUCTION			

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
ENHANCEMENT PROJECTS									
GREENSBORO	**E-4776**	CONSTRUCT SIDEWALKS ALONG TEN LOCATIONS: GUILFORD COLLEGE ROAD, BESSEMER AVENUE, COTSWOLD TERRACE, TWO LOCATIONS ON MCKNIGHT MILL ROAD , CONE BOULEVARD, TWO LOCATIONS ON WEST MARKET STREET AND ON ELM AND EUGENE STREETS.		85	85	UNDER CONSTRUCTION			
GREENSBORO	**E-4777**	PHASE A: TEN-FOOT MULTI-USE ASPHALT TRAIL BEGINNING AT LEE STREET AND EXTENDING NORTH TO FREEMAN MILL ROAD.		66	66	UNDER CONSTRUCTION			
HIGH POINT	**E-4543**	US 311 BYPASS TO DEEP RIVER ROAD. CONSTRUCT A GREENWAY		150	150	UNDER CONSTRUCTION			
HIGH POINT	**E-4939**	PHASE II: CONSTRUCT HIGH POINT GREENWAY TRAIL ALONG SR 1538 (DEEP RIVER ROAD), MARSDEN ROAD TO DEEP RIVER.		458		CONSTRUCTION CONSTRUCTION	STP O	366 92	FFY 06 FFY 06
JAMESTOWN	**E-4122**	GREENWAY BIKE/PEDESTRIAN CONNECTOR ALONG SR 1545 (EAST FORK ROAD).		294	294	IN PROGRESS			
JAMESTOWN HIGH POINT	**E-4775**	CONSTRUCT A CONNECTOR BETWEEN EXISTING WALKWAY SYSTEMS IN JAMESTOWN AND THE BICENTENNIAL GREENWAY.		166		CONSTRUCTION CONSTRUCTION	STP O	138 28	FFY 07 FFY 07
OAK RIDGE	**E-4778**	LANDSCAPE INTERSECTION OF NC 68 AND NC 150.		12	1	CONSTRUCTION CONSTRUCTION	STP O	9 2	FFY 06 FFY 06
HAZARD ELIMINATION PROJECTS									
I-40, I-840, US 220	**W-4818**	SECTION A, I-40, US 421-I-40 BUSINESS EASTWARD TO EAST OF US 220; SECTION B, I-40 (MILE MARKER 125.5) ESTWARD TO THE ALAMANCE COUNTY LINE; SECTION C, I-840, I-40 NORTHWARD TO US 70; SECTION D, US 220, 5.66 MILES TO 6.86 MILES NORTH OF RANDOLPH COUNTY LINE. INSTALL SHOULDER RUMBLE STRIPS.		175	175	UNDER CONSTRUCTION			
I-40	**W-4824**	SECTION A, IREDELL COUNTY LINE EASTWARD TO MILE MARKER 175; SECTION B, WEST OF NC 801 EASTWARD TO EAST OF SR 1101; SECTION C, WEST OF SR 1120-1122 EASTWARD TO WEST OF US 158; SECTION D, EAST OF US 52 EASTWARDTO NEAR US 311; SECTION E, US 311, I-40 SOUTHWARD TO SR 1979; SECTION F, SR 1979, US 311 TO THE BRIDGE OVER OAK HOLLOW LAKE. INSTALL SHOULDER RUMBLE STRIPS.		175		CONSTRUCTION	HES	175	FFY 06
I-85 BUSINESS/ US 29-70	**W-4822**	SECTION A, I-85 NORTHWARD TO SWEARING CREEK IN DAVIDSON COUNTY; SECTION B, RANDOLPH COUNTY LINE NORTHWARD TO I-85 IN GUILFORD COUNTY. INSTALL SHOULDER RUMBLE STRIPS.		110	10	CONSTRUCTION	HES	100	FFY 06

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
HAZARD ELIMINATION PROJECTS									
US 29-70-220-421	**W-4419**	NC 6 (LEE STREET) IN GREENBORO. ERECT NEW OVERHEAD STRUCTURE TO IMPROVE SIGNING FOR I-85 AND NC 6. WIDEN ALL FOUR ENTRANCE RAMPS IN THE INTERCHANGE AND LENGTHEN THE TAPERS TO IMPROVE THE TURNING RADIUS.		486	486	UNDER CONSTRUCTION			
US 421	**W-4823**	SECTION A, YADKIN COUNTY LINE SOUTHWARD TO NEAR SR 1171; SECTION B, NEAR SR 1171 SOUTHWARD TO NEAR SR 1891; SECTION C, NEAR SR 1891 SOUTHWARD TO NORTH OF US 158 (STRATFORD ROAD); SECTION D, US 421/ I-40, BUSINESS NORTHBOUND LANE SOUTH OF US 52 SOUTHWARD TO SOUTH OF US 52; SECTION E, US 421/I-40 BUSINESS, SOUTH OF US 52 TO I-40. INSTALL SHOULDER RUMBLE STRIPS.		200		CONSTRUCTION	HES	200	FFY 06
NC 62	**W-4706**	NC 62 AT SR 3402 (HUNT ROAD). INTERSECTION IMPROVEMENTS.		710	710	UNDER CONSTRUCTION			
NC 150	**W-4707**	SR 2128 (BUNCH ROAD). INTERSECTION IMPROVEMENTS.		330	25	RIGHT-OF-WAY CONSTRUCTION	HES HES	50 255	FFY 08 FFY 09
SR 1005	**SI-4718**	SR 1002 (SCALESVILLE ROAD) AT SR 2305 (WITTY ROAD). INSTALL CENTER TRAFFIC ISLAND WITH STOP SIGNS ON SR 2305.		50	50	UNDER CONSTRUCTION			
SR 2565 HICONE ROAD	**W-4418**	SR 2732 (HINES CHAPEL ROAD). REALIGN INTERSECT-ION TO IMPROVE SIGHT DISTANCE ON WEST SIDE AND SHIFT LEFT TURN LANES ON SR 2565.		435	435	UNDER CONSTRUCTION BY DIVISION			
COLFAX	**SI-4719**	SR 1008 (MARKET STREET) AT SR 2007 (BUNKER HILL ROAD). CONSTRUCT LEFT TURN LANE ON MARKET STREET AND INSTALL TRAFFIC SIGNAL.		150	150	UNDER CONSTRUCTION			
PASSENGER RAIL PROJECTS									
AMTRAK	**P-2908**	CAPITAL AND OPERATIONS COST OF TRAIN 79/80 BETWEEN CHARLOTTE AND ROCKY MOUNT.		40253	23634	OPERATIONS IN PROGRESS	S(5)	16619	SFY 06 07 08 09 10
AMTRAK	**P-2918**	TRAIN 73/74 OPERATIONS BETWEEN CHARLOTTE AND RALEIGH AND CAPITAL YARD MAINTENANCE FACILITY.		51908	28079	OPERATIONS OPERATIONS IN PROGRESS	S(5) T2001	8381 15448	SFY 06 07 08 09 10 FFY 06 07 08 09 10
GREENSBORO	**P-3416**	CONSOLIDATION OF HIGH SPEED RAIL (HSR) CORRIDOR CROSSING AT RUCKER STREET, RAIL STREET AND BOSTON ROAD. CONSTRUCT CONNECTOR ROAD.		1090	1090	UNDER CONSTRUCTION			
GREENSBORO	**P-3801**	TRACK AND STATION REHABILITATION.		11275	11275	UNDER CONSTRUCTION			
GREENSBORO	**Z-3449A**	EUGENE STREET AT NORFOLK SOUTHERN RAILWAY CROSSING 722 159N. SAFETY IMPROVEMENTS.		144	144	UNDER CONSTRUCTION			
HIGH POINT	**P-2912**	STATION REHABILITATION.		5721	5721	UNDER CONSTRUCTION			

TRANSPORTATION PROGRAM — GUILFORD COUNTY

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
PASSENGER RAIL PROJECTS									
NCRR	**P-3837**	SLOPE STABILIZATION AND DRAINAGE IMPROVEMENTS TO TRACK AND STRUCTURES ON SOUTHEAST HIGH SPEED CORRIDOR.		550	550	IN PROGRESS			

PUBLIC TRANSPORTATION PROGRAM — GUILFORD COUNTY

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
PUBLIC TRANSPORTATION PROJECTS									
GREENSBORO	**TA-4766**	REPLACEMENT SMALL BUSES		488		CAPITAL	STAT	39	FFY 06
						CAPITAL	FUZ	405	FFY 06
						CAPITAL	L	44	FFY 06
GREENSBORO	**TA-4767A**	EXPANSION SMALL BUSES		172		CAPITAL	STAT	14	FFY 07
						CAPITAL	FUZ	143	FFY 07
						CAPITAL	L	15	FFY 07
GREENSBORO	**TA-4767B**	REPLACEMENT SMALL BUSES		459		CAPITAL	STAT	37	FFY 07
						CAPITAL	FUZ	381	FFY 07
						CAPITAL	L	41	FFY 07
GREENSBORO	**TA-4768**	EXPANSION SMALL BUSES		167		CAPITAL	STAT	13	FFY 09
						CAPITAL	FUZ	139	FFY 09
						CAPITAL	L	15	FFY 09
GREENSBORO	**TA-4769**	REPLACEMENT VANS		508		CAPITAL	STAT	41	FFY 10
						CAPITAL	FUZ	421	FFY 10
						CAPITAL	L	46	FFY 10
GREENSBORO	**TA-4771**	REPLACEMENT BUSES		2800		CAPITAL	STAT	280	FFY 10
						CAPITAL	L	280	FFY 10
						CAPITAL	FED	2240	FFY 10
						UNFUNDED PROJECT			
GREENSBORO	**TA-4912**	EXPANSION SMALL BUSES-UNIVERSITY SHUTTLE		304		CAPITAL	STAT	24	FFY 06
						CAPITAL	FUZ	253	FFY 06
						CAPITAL	L	27	FFY 06
GREENSBORO	**TA-4913**	REPLACEMENT BUSES		3300		CAPITAL	STAT	330	FFY 06
						CAPITAL	L	330	FFY 06
						CAPITAL	FED	2640	FFY 06
						UNFUNDED PROJECT			
GREENSBORO	**TA-4914**	EXPANSION SMALL BUSES		488		CAPITAL	STAT	39	FFY 06
						CAPITAL	L	44	FFY 06
						CAPITAL	FED	405	FFY 06
						UNFUNDED PROJECT			

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
PUBLIC TRANSPORTATION PROJECTS									
GREENSBORO	**TA-4915**	REPLACEMENT BUSES		3350		CAPITAL	STAT	335	FFY 07
						CAPITAL	L	335	FFY 07
						CAPITAL	FED	2680	FFY 07
						UNFUNDED PROJECT			
GREENSBORO	**TA-4932**	REPLACEMENT SMALL BUSES		598		CAPITAL	STAT	48	FFY 08
						CAPITAL	FUZ	496	FFY 08
						CAPITAL	L	54	FFY 08
GREENSBORO	**TA-4933**	REPLACEMENT SMALL BUSES		982		CAPITAL	STAT	79	FFY 11
						CAPITAL	FUZ	815	FFY 11
						CAPITAL	L	88	FFY 11
GREENSBORO	**TA-4934**	REPLACEMENT SMALL BUSES		791		CAPITAL	STAT	63	FFY 12
						CAPITAL	FUZ	657	FFY 12
						CAPITAL	L	71	FFY 12
GREENSBORO	**TA-4935**	REPLACEMENT BUSES		4080		CAPITAL	STAT	408	FFY 08
						CAPITAL	L	408	FFY 08
						CAPITAL	FED	3264	FFY 08
						UNFUNDED PROJECT			
GREENSBORO	**TA-4936**	EXPANSION BUSES		5520		CAPITAL	STAT	552	FFY 09
						CAPITAL	L	552	FFY 09
						CAPITAL	FED	4416	FFY 09
						UNFUNDED PROJECT			
GREENSBORO	**TA-4937**	EXPANSION SMALL BUSES		351		CAPITAL	STAT	28	FFY 09
						CAPITAL	L	32	FFY 09
						CAPITAL	FED	291	FFY 09
						UNFUNDED PROJECT			
GREENSBORO	**TA-4938**	EXPANSION BUSES		5600		CAPITAL	STAT	560	FFY 10
						CAPITAL	L	560	FFY 10
						CAPITAL	FED	4480	FFY 10
						UNFUNDED PROJECT			
GREENSBORO	**TA-4939**	EXPANSION SMALL BUSES		351		CAPITAL	STAT	28	FFY 10
						CAPITAL	L	32	FFY 10
						CAPITAL	FED	291	FFY 10
						UNFUNDED PROJECT			
GREENSBORO	**TD-4713**	PARK AND RIDE LOTS FOR THE GREENSBORO AREA		566		CAPITAL	STAT	57	FFY 07
						CAPITAL	L	57	FFY 07
						CAPITAL	FED	452	FFY 07
						UNFUNDED PROJECT			
GREENSBORO	**TD-4714**	2 TRANSIT HUBS--PLANNING/DESIGN		200		CAPITAL	STAT	20	FFY 07
						CAPITAL	FUZ	160	FFY 07
						CAPITAL	L	20	FFY 07

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
PUBLIC TRANSPORTATION PROJECTS									
GREENSBORO	**TD-4715**	IMPROVEMENTS TO GTA BUILDING MEZZANINE		125		CAPITAL	FUZ	100	FFY 10
						CAPITAL	L	25	FFY 10
GREENSBORO	**TG-4757A**	ROUTINE CAPITAL ITEMS--SUPERVISOR VEHICLES, SPARE PARTS, OFFICE EQUIPMENT AND RETROFITTING BUS STOPS		162		CAPITAL	FUZ	130	FFY 06
						CAPITAL	L	32	FFY 06
GREENSBORO	**TG-4757B**	PREVENTIVE MAINTENANCE		1791		CAPITAL	FUZ	1433	FFY 06
						CAPITAL	L	358	FFY 06
GREENSBORO	**TG-4758**	PREVENTIVE MAINTENANCE		2021		CAPITAL	FUZ	1617	FFY 07
						CAPITAL	L	404	FFY 07
GREENSBORO	**TG-4759A**	ROUTINE CAPITAL ITEMS--SPARE PARTS, ONBOARD SURVEILLANCE CAMERAS		600		CAPITAL	FUZ	480	FFY 08
						CAPITAL	L	120	FFY 08
GREENSBORO	**TG-4759B**	PREVENTIVE MAINTENANCE		1656		CAPITAL	FUZ	1325	FFY 08
						CAPITAL	L	331	FFY 08
GREENSBORO	**TG-4760A**	ROUTINE CAPITAL ITEMS--SPARE PARTS, OFFICE EQUIPMENT, SHOP EQUIPMENT, SMART CARD FAREBOX TECHNOLOGY, 3 SERVICE VEHICLES		569		CAPITAL	FUZ	455	FFY 09
						CAPITAL	L	114	FFY 09
GREENSBORO	**TG-4760B**	PREVENTIVE MAINTENANCE		2134		CAPITAL	FUZ	1707	FFY 09
						CAPITAL	L	427	FFY 09
GREENSBORO	**TG-4761A**	ROUTINE CAPITAL ITEM--SPARE PARTS		42		CAPITAL	FUZ	34	FFY 10
						CAPITAL	L	8	FFY 10
GREENSBORO	**TG-4761B**	PREVENTIVE MAINTENANCE		2182		CAPITAL	FUZ	1746	FFY 10
						CAPITAL	L	436	FFY 10
GREENSBORO	**TG-4923A**	ROUTINE CAPITAL ITEMS--SPARE PARTS		265		CAPITAL	FUZ	212	FFY 11
						CAPITAL	L	53	FFY 11
GREENSBORO	**TG-4923B**	PREVENTIVE MAINTENANCE		1857		CAPITAL	FUZ	1486	FFY 11
						CAPITAL	L	371	FFY 11
GREENSBORO	**TG-4924A**	ROUTINE CAPITAL ITEMS--SPARE PARTS		265		CAPITAL	FUZ	212	FFY 12
						CAPITAL	L	53	FFY 12
GREENSBORO	**TG-4924B**	PREVENTIVE MAINTENANCE		2055		CAPITAL	FUZ	1644	FFY 12
						CAPITAL	L	411	FFY 12
GREENSBORO	**TM-4711**	AUTOMATED VEHICLE LOCATING SYSTEM (AVL)		700		CAPITAL	STAT	70	FFY 06
						CAPITAL	L	70	FFY 06
						CAPITAL	FED	560	FFY 06
						UNFUNDED PROJECT			
GREENSBORO	**TM-4725**	DISPATCHING SCHEDULING SOFTWARE		100		CAPITAL	STAT	10	FFY 06
						CAPITAL	FUZ	80	FFY 06
						CAPITAL	L	10	FFY 06

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
PUBLIC TRANSPORTATION PROJECTS									
GREENSBORO	**TO-4784**	OPERATING ASSISTANCE		6097		OPERATIONS	SMAP	1297	FFY 06
						OPERATIONS	L	4800	FFY 06
GREENSBORO	**TO-4785**	OPERATING ASSISTANCE		6097		OPERATIONS	SMAP	1297	FFY 07
						OPERATIONS	L	4800	FFY 07
GREENSBORO	**TO-4786**	OPERATING ASSISTANCE		6097		OPERATIONS	SMAP	1297	FFY 08
						OPERATIONS	L	4800	FFY 08
GREENSBORO	**TO-4787**	OPERATING ASSISTANCE		6097		OPERATIONS	SMAP	1297	FFY 09
						OPERATIONS	L	4800	FFY 09
GREENSBORO	**TO-4788**	OPERATING ASSISTANCE		6097		OPERATIONS	SMAP	1297	FFY 10
						OPERATIONS	L	4800	FFY 10
GREENSBORO	**TO-4919**	OPERATING ASSISTANCE		6097		OPERATIONS	SMAP	1297	FFY 11
						OPERATIONS	L	4800	FFY 11
GREENSBORO	**TO-4920**	OPERATING ASSISTANCE		6097		OPERATIONS	SMAP	1297	FFY 12
						OPERATIONS	L	4800	FFY 12
GREENSBORO	**TP-4710**	TRANSIT PLANNING ASSISTANCE		126		PLANNING	STAT	13	FFY 06
						PLANNING	FUZ	100	FFY 06
						PLANNING	L	13	FFY 06
GREENSBORO	**TP-4711**	TRANSIT PLANNING ASSISTANCE		126		PLANNING	STAT	13	FFY 07
						PLANNING	FUZ	100	FFY 07
						PLANNING	L	13	FFY 07
GREENSBORO	**TP-4712**	TRANSIT PLANNING ASSISTANCE		126		PLANNING	STAT	13	FFY 08
						PLANNING	FUZ	100	FFY 08
						PLANNING	L	13	FFY 08
GREENSBORO	**TP-4713**	TRANSIT PLANNING ASSISTANCE		126		PLANNING	STAT	13	FFY 09
						PLANNING	FUZ	100	FFY 09
						PLANNING	L	13	FFY 09
GREENSBORO	**TP-4714**	TRANSIT PLANNING ASSISTANCE		126		PLANNING	STAT	13	FFY 10
						PLANNING	FUZ	100	FFY 10
						PLANNING	L	13	FFY 10
GREENSBORO	**TP-4912**	TRANSIT PLANNING ASSISTANCE		126		PLANNING	STAT	13	FFY 11
						PLANNING	FUZ	100	FFY 11
						PLANNING	L	13	FFY 11
GREENSBORO	**TP-4913**	TRANSIT PLANNING ASSISTANCE		250		PLANNING	STAT	25	FFY 12
						PLANNING	FUZ	200	FFY 12
						PLANNING	L	25	FFY 12
GUILFORD COUNTY	**TJ-4940**	PROVIDE OPERATING ASSISTANCE TO COUNTIES AND COMMUNITY TRANSPORTATION SYSTEMS TO MEET WORK FIRST AND EMPLOYMENT TRANSPORTATION NEEDS.		90		OPERATIONS	OAWF	90	FFY 06 07

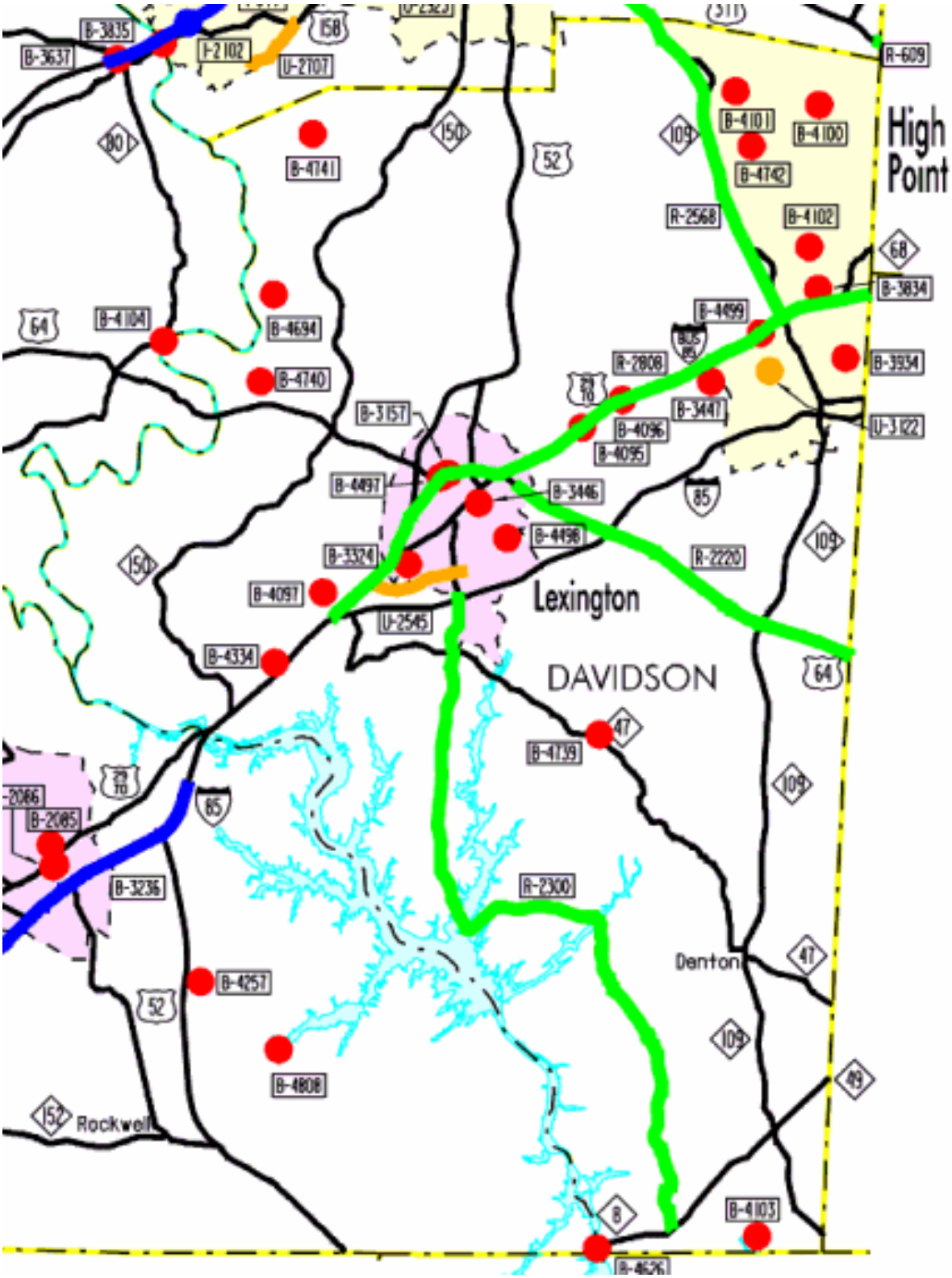
LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
PUBLIC TRANSPORTATION PROJECTS									
GUILFORD COUNTY	**TL-4940**	PROVIDE OPERATING ASSISTANCE FOR ADDITIONAL TRANSPORTATION SERVICES TO THE ELDERLY AND DISABLED.		298		OPERATIONS	EDTAP	298	FFY 06 07
GUILFORD COUNTY	**TR-4940**	PROVIDE MAINTENANCE ASSISTANCE FOR COMMUNITY TRANSPORTATION SYSTEMS TO SERVE THE RURAL GENERAL PUBLIC.		102		OPERATIONS	RGP	102	FFY 06 07
HIGH POINT	**TD-4725A**	ADMINISTRATIVE AND OPERATION FACILITY RENOVATION--PRELIMINARY ENGINEERING, DESIGN AND ENVIRONMENTAL ASSESSMENT		56		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	6 6 44	FFY 06 FFY 06 FFY 06
HIGH POINT	**TD-4725B**	ADMINISTRATIVE AND OPERATION FACILITY RENOVATION--CONSTRUCTION		480		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	48 48 384	FFY 07 FFY 07 FFY 07
HIGH POINT	**TD-4728B**	DOWNTOWN TRANSFER FACILITY ON COMMERCE STREET -- CONSTRUCTION		2700		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	270 270 2160	FFY 06 FFY 06 FFY 06
HIGH POINT	**TD-4728C**	DOWNTOWN TRANSFER FACILITY ON COMMERCE STREET -- CONSTRUCTION		3800		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	380 380 3040	FFY 07 FFY 07 FFY 07
HIGH POINT	**TD-4901A**	REHABILITATION OF BUS TERMINAL-ENGINEERING, DESIGN AND ENVIRONMENTAL ASSSESSMENT		30		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	3 3 24	FFY 06 FFY 06 FFY 06
HIGH POINT	**TD-4901B**	REHABILITATION OF BUS TERMINAL- CONSTRUCTION		250		CAPITAL CAPITAL CAPITAL	STAT FUZ L	25 200 25	FFY 07 FFY 07 FFY 07
HIGH POINT	**TG-4779**	ROUTINE CAPITAL ITEMS--SPARE PARTS, CAPITAL COST OF CONTRACTING, SHOP EQUIPMENT, BENCHES & SHELTERS, COMPUTER SOFTWARE		120		CAPITAL CAPITAL	FUZ L	96 24	FFY 06 FFY 06
HIGH POINT	**TG-4780A**	ROUTINE CAPITAL ITEMS--SPARE PARTS, CAPITAL COST OF CONTRACTING, SHOP EQUIPMENT, COMPUTER SOFTWARE		109		CAPITAL CAPITAL	FUZ L	87 22	FFY 07 FFY 07
HIGH POINT	**TG-4814**	ROUTINE CAPITAL ITEMS--SPARE PARTS, CAPITAL COST OF CONTRACTING, SHOP EQUIPMENT, COMPUTER SOFTWARE		97		CAPITAL CAPITAL	FUZ L	78 19	FFY 08 FFY 08
HIGH POINT	**TG-4815**	ROUTINE CAPITAL ITEMS--SPARE PARTS, CAPITAL COST OF CONTRACTING, SHOP EQUIPMENT, COMPUTER SOFTWARE		121		CAPITAL CAPITAL	FUZ L	97 24	FFY 09 FFY 09

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
PUBLIC TRANSPORTATION PROJECTS									
HIGH POINT	**TG-4816**	ROUTINE CAPITAL ITEMS--SPARE PARTS, CAPITAL COST OF CONTRACTING, SHOP EQUIPMENT, COMPUTER SOFTWARE		139		CAPITAL CAPITAL	FUZ L	111 28	FFY 10 FFY 10
HIGH POINT	**TG-4917**	ROUTINE CAPITAL ITEMS--SPARE PARTS, CAPITAL COST OF CONTRACTING, SHOP EQUIPMENT, BENCHES & SHELTERS, COMPUTER HARDWARE AND SOFTWARE		146		CAPITAL CAPITAL	FUZ L	117 29	FFY 11 FFY 11
HIGH POINT	**TG-4918**	ROUTINE CAPITAL ITEMS--SPARE PARTS, CAPITAL COST OF CONTRACTING, SHOP EQUIPMENT, BENCHES & SHELTERS, COMPUTER HARDWARE AND SOFTWARE		146		CAPITAL CAPITAL	FUZ L	117 29	FFY 12 FFY 12
HIGH POINT	**TM-4713B**	PEDESTRIAN ACCESS/WALKWAYS		200		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	20 20 160	FFY 06 FFY 06 FFY 06
HIGH POINT	**TM-4713C**	PEDESTRIAN ACCESS/WALKWAYS		200		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	20 20 160	FFY 07 FFY 07 FFY 07
HIGH POINT	**TM-4713D**	PEDESTRIAN ACCESS/WALKWAYS		200		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	20 20 160	FFY 08 FFY 08 FFY 08
HIGH POINT	**TM-4713E**	PEDESTRIAN ACCESS/WALKWAYS		200		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	20 20 160	FFY 09 FFY 09 FFY 09
HIGH POINT	**TM-4713F**	PEDESTRIAN ACCESS/WALKWAYS		200		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	20 20 160	FFY 10 FFY 10 FFY 10
HIGH POINT	**TM-4713G**	PEDESTRIAN ACCESS/WALKWAYS		200		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	20 20 160	FFY 11 FFY 11 FFY 11
HIGH POINT	**TM-4713H**	PEDESTRIAN ACCESS/WALKWAYS		200		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	20 20 160	FFY 12 FFY 12 FFY 12
HIGH POINT	**TO-4738B**	FEDERAL OPERATING ASSISTANCE AND STATE MAINTENANCE		1676		OPERATIONS OPERATIONS OPERATIONS	SMAP FUZ L	408 838 430	FFY 06 FFY 06 FFY 06

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
PUBLIC TRANSPORTATION PROJECTS									
HIGH POINT	**TO-4739B**	FEDERAL OPERATING ASSISTANCE AND STATE MAINTENANCE		1726		OPERATIONS	SMAP	420	FFY 07
						OPERATIONS	FUZ	863	FFY 07
						OPERATIONS	L	443	FFY 07
HIGH POINT	**TO-4789B**	FEDERAL OPERATING ASSISTANCE AND STATE MAINTENANCE		1728		OPERATIONS	SMAP	432	FFY 08
						OPERATIONS	FUZ	839	FFY 08
						OPERATIONS	L	457	FFY 08
HIGH POINT	**TO-4790B**	FEDERAL OPERATING ASSISTANCE AND STATE MAINTENANCE		1778		OPERATIONS	SMAP	432	FFY 09
						OPERATIONS	FUZ	889	FFY 09
						OPERATIONS	L	457	FFY 09
HIGH POINT	**TO-4791B**	FEDERAL OPERATING ASSISTANCE AND STATE MAINTENANCE		1778		OPERATIONS	SMAP	432	FFY 10
						OPERATIONS	FUZ	889	FFY 10
						OPERATIONS	L	457	FFY 10
HIGH POINT	**TO-4915B**	FEDERAL OPERATING ASSISTANCE AND STATE MAINTENANCE		1778		OPERATIONS	SMAP	432	FFY 11
						OPERATIONS	FUZ	889	FFY 11
						OPERATIONS	L	457	FFY 11
HIGH POINT	**TO-4916B**	FEDERAL OPERATING ASSISTANCE AND STATE MAINTENANCE		1778		OPERATIONS	SMAP	432	FFY 12
						OPERATIONS	FUZ	889	FFY 12
						OPERATIONS	L	457	FFY 12
HIGH POINT	**TP-4731**	SHORT RANGE TRANSIT PLAN		250		PLANNING	STAT	25	FFY 08
						PLANNING	L	25	FFY 08
						PLANNING	FED	200	FFY 08
						UNFUNDED PROJECT			
PIEDMONT AUTHORITY FOR REGIONAL TRANSPORTATION	**TA-4910**	EXPANSION BUSES		1800		CAPITAL	STAT	180	FFY 07
						CAPITAL	L	180	FFY 07
						CAPITAL	FED	1440	FFY 07
						UNFUNDED PROJECT			
PIEDMONT AUTHORITY FOR REGIONAL TRANSPORTATION	**TD-4723B**	REGIONAL MULTI-MODAL TRANSPORTATION CENTER--CONSTRUCTION.		11500		CAPITAL	STAT	1150	FFY 06
						CAPITAL	L	1150	FFY 06
						CAPITAL	FED	9200	FFY 06
						UNFUNDED PROJECT			
PIEDMONT AUTHORITY FOR REGIONAL TRANSPORTATION	**TE-4708A**	EAST-WEST LOCALLY PREFERRED ALTERNATIVE SELECTION CORRIDOR I--PRELIMINARY ENGINEERING		4000		CAPITAL	STAT	1000	FFY 06
						CAPITAL	L	1000	FFY 06
						CAPITAL	FED	2000	FFY 06
						UNFUNDED PROJECT			
PIEDMONT AUTHORITY FOR REGIONAL TRANSPORTATION	**TE-4708B**	EAST-WEST LOCALLY PREFERRED ALTERNATIVE SELECTION CORRIDOR I--PE AND DEIS		4000		CAPITAL	STAT	1000	FFY 07
						CAPITAL	L	1000	FFY 07
						CAPITAL	FED	2000	FFY 07
						UNFUNDED PROJECT			

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
PUBLIC TRANSPORTATION PROJECTS									
PIEDMONT AUTHORITY FOR REGIONAL TRANSPORTATION	**TE-4708C**	EAST-WEST LOCALLY PREFERRED ALTERNATIVE SELECTION CORRIDOR I--PE AND DEIS		4000		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	1000 1000 2000	FFY 08 FFY 08 FFY 08
PIEDMONT AUTHORITY FOR REGIONAL TRANSPORTATION	**TE-4708D**	EAST-WEST LOCALLY PREFERRED ALTERNATIVE SELECTION CORRIDOR I--PE AND DEIS		4000		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	1000 1000 2000	FFY 09 FFY 09 FFY 09
PIEDMONT AUTHORITY FOR REGIONAL TRANSPORTATION	**TE-4709A**	EAST-WEST LOCALLY PREFERRED ALTERNATIVE SELECTION CORRIDOR I--PROJECT DESIGN/MANAGEMENT/LAND ACQUISTION/PURCHASE TRANSIT RIGHT-OF-WAY		80000		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	20000 20000 40000	FFY 10 FFY 10 FFY 10
PIEDMONT AUTHORITY FOR REGIONAL TRANSPORTATION	**TE-4709B**	EAST-WEST LOCALLY PREFERRED ALTERNATIVE SELECTION CORRIDOR I--PROJECT DESIGN/MANAGEMENT/CONSTRUCTION/PURCHASE TRANSIT RAIL CARS		111000		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	27750 27750 55500	FFY 11 FFY 11 FFY 11
PIEDMONT AUTHORITY FOR REGIONAL TRANSPORTATION	**TE-4709C**	EAST-WEST LOCALLY PREFERRED ALTERNATIVE SELECTION CORRIDOR I--PROJECT DESIGN/MANAGEMENT/CONSTRUCTION/PURCHASE TRANSIT RAIL CARS		111000		CAPITAL CAPITAL CAPITAL UNFUNDED PROJECT	STAT L FED	27750 27750 55500	FFY 12 FFY 12 FFY 12
PIEDMONT AUTHORITY FOR REGIONAL TRANSPORTATION	**TP-4726**	2030 INTEGRATED TRANSPORTATION/LAND USE UPDATE FOR THE PIEDMONT TRIAD REGION		800		PLANNING PLANNING PLANNING UNFUNDED PROJECT	STAT L FED	80 80 640	FFY 06 FFY 06 FFY 06

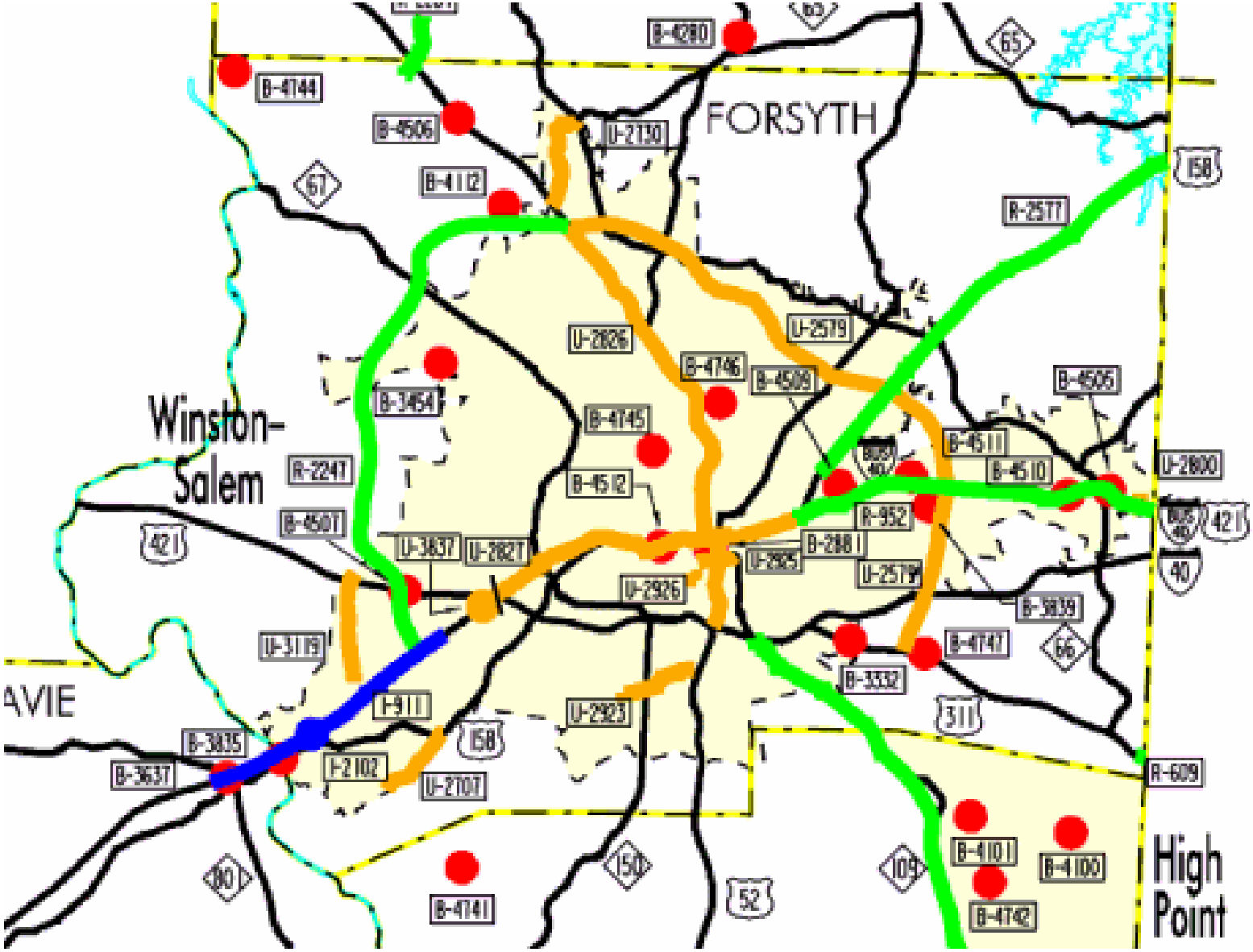
DAVIDSON COUNTY 2006-2012 TIP PROJECTS



TRANSPORTATION PROGRAM — DAVIDSON COUNTY

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
US 29-70 AND I-85 BUSINESS	R-2808	I-85 IN DAVIDSON COUNTY TO I-85 IN GUILFORD COUNTY. UPGRADE, SAFETY IMPROVEMENTS AND REPLACE BRIDGE NO. 74 AT SR 1627 (B-2163).	31.1	11395	5595	RIGHT-OF-WAY	STP	1200	POST YEARS
						CONSTRUCTION	STP	4600	POST YEARS
						PART COMPLETE - PART UNFUNDED			
						STRATEGIC HIGHWAY CORRIDOR PROJECT			
US 64	R-2220 *	EAST OF I-85 BUSINESS IN LEXINGTON TO US 220 IN ASHEBORO. WIDEN TO FOUR LANES.	26.5	136062	12262	RIGHT-OF-WAY	T	17500	POST YEARS
						CONSTRUCTION	T	106300	POST YEARS
						PART COMPLETE - PART UNFUNDED			
						STRATEGIC HIGHWAY CORRIDOR PROJECT			
NC 8	R-2300	NC 49 TO SR 2212. WIDEN ROADWAY, PART TO MULTI-LANES.	24.6	51555	30650	RIGHT-OF-WAY			PART IN ACQUISITION
						CONSTRUCTION	S	6700	SFY 08
						RIGHT-OF-WAY	STP	1650	POST YEARS
						CONSTRUCTION	STP	12900	POST YEARS
						PART COMPLETE - PART UNDER CONSTRUCTION			
LEXINGTON	U-2545	NEW ROUTE, US 29-52-70/I-85 BUSINESS TO SR 2212 (FAIRVIEW ROAD). TWO LANES WITH PAVED SHOULDERS ON NEW LOCATION.	4.2	14250	250	PLANNING/DESIGN			IN PROGRESS
						RIGHT-OF-WAY	STP	1600	FFY 10
						CONSTRUCTION	STP	4367	FFY 12
						CONSTRUCTION	STP	5733	POST YEARS

FORSYTH COUNTY 2006-2012 TIP PROJECTS



TRANSPORTATION PROGRAM — FORSYTH COUNTY

LOCATION	ID NO.	DESCRIPTION	LENGTH (MI)	TOTAL EST. COST (THOU.)	PRIOR YRS. COST (THOU.)	WORK TYPE	FUNDING SOURCE	COST ESTIMATES (THOU.)	SCHEDULE (FISCAL YEARS)
WINSTON-SALEM	U-4759	SR 2643 (UNION CROSS ROAD), I-40 TO SR 1003 (HIGH POINT ROAD) AND SR 2666 (TEMPLE SCHOOL ROAD), UNION CROSS ROAD TO HIGH POINT ROAD. IMPROVEMENTS TO EXISTING FACILITIES.	3.1	6130	3518	CONSTRUCTION	S	2612	SFY 06
						PART UNDER CONSTRUCTION			
WINSTON-SALEM	U-4760	CONSTRUCT AN INDUSTRIAL ACCESS ROAD OFF SR 2643 (UNION CROSS ROAD)	1.0	2375	2375	UNDER CONSTRUCTION			
NC 109	R-2568	SOUTH OF I-85 BUSINESS IN THOMASVILLE TO I-40/US 311 IN WINSTON-SALEM. WIDEN TO MULTI-LANES WITH BYPASS OF WALLBURG, SOME NEW LOCATION.	13.6	109570	31592	PLANNING/DESIGN			IN PROGRESS
						RIGHT-OF-WAY	STP	4500	FFY 11
						CONSTRUCTION	STP	12578	FFY 06
						RIGHT-OF-WAY	STP	15300	POST YEARS
						CONSTRUCTION	STP	45600	POST YEARS
						PART COMPLETE - PART UNDER CONSTRUCTION			
GOLFAX KERNERSVILLE	U-3617	SR 2045 (EAST MOUNTAIN STREET/OLD US 421), SR 1005, SR 1008, NC 66 IN KERNERSVILLE (FORSYTH COUNTY) TO SR 2001 (GUILFORD COUNTY). WIDEN TO MULTI-LANES.	2.5	19200		RIGHT-OF-WAY	STP	6000	POST YEARS
						CONSTRUCTION	STP	13900	POST YEARS
						UNFUNDED PROJECT			
US 52 (FUTURE I-285)	R-4750	I-85 IN DAVIDSON COUNTY TO I-40 IN FORSYTH COUNTY. UPGRADE EXISTING ROADWAY TO INTERSTATE STANDARDS.	23.0	2525		PLANNING/DESIGN			FFY 06
						RIGHT-OF-WAY	NHS	525	FFY 10
						CONSTRUCTION	NHS	2000	FFY 11
						STRATEGIC HIGHWAY CORRIDOR PROJECT			

Appendix E: CMAQ Projects

Triad CMAQ Projects (Davidson and Guilford Counties)

NUMBER	PROJECT DESCRIPTION	FUNDING AMOUNT*	EMISSION REDUCTIONS	IMPLEMENTATION DATE
C-4935 (G-1)	Greensboro, provide University and College Service to meet needs of Greensboro's 43,000 student population at UNCG, NCA&T and GTCC's Jamestown Campus while enhancing transit service levels for the community.	$8,202,695.00	Carbon Monoxide 15,050 kg/year Volatile Organic 710 kg/year Oxides of Nitrogen 284 kg/year	January-06
C-4936 (Region-wide)	Piedmont Authority for Regional Transportation (PART-Greensboro), implement a Regional Air Quality Awareness Program in collaboration with area MPO/RPO's.	$412,500.00	N/A	January-06
R-2612	Greensboro, US 421. SR 3389 (Woody Mill Road) and NC 22. Convert at-grade intersections to interchanges.	$15,938,000.00	Carbon Monoxide 45,967.60 kg/year Volatile Organic 5,050.77 kg/year Oxides of Nitrogen 1235.66 kg/year	FFY 07- PY
U-4711	Greensboro Signal System/ITS System replacement and expansion.	$15,450,000.00	N/A	FFY 08
C-4965 (PT-1)	Lexington bicycle and pedestrian plan	$80,000.00		FY10
C-4966 (PT-2,4)	Upgrade Natural gas fueling station, and purchase two natural gas vehicles	$470,000.00		FY06
C-4967 (PT-5)	Purchase two natural gas vehicles	$36,000.00		FY06
C-4968 (PT-6)	Intersection Improvements	$578,663.00		FY06-08
C-4937 (HP-1)	Signal Timing Studies	$230,000.00		FY10
C-4938 (HP-2)	One way vs. Two way street study	$99,522.00		FY10

Appendix F: Mobile 6.2 Emission Factors

```
--------------------------------------------------------------------------------
DATE = Wed Oct 12 15:55:04.772 2005
PID = 896
dx_getservbyname: getservbyname failed
                  service="unieng", protocol="tcp"
--------------------------------------------------------------------------------
DATE = Wed Oct 12 15:55:04.772 2005
PID = 896
dx_getservbyname: using default port 5730
```

```
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:17.059 2005
PID = 868
dx_getservbyname: getservbyname failed
                  service="unieng", protocol="tcp"
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:17.059 2005
PID = 868
dx_getservbyname: using default port 5730
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:23.684 2005
PID = 868
SYSTEM errno = 10060 -> Connection timed out
DEXOTEK ERRCODE 0x1130B -> OpenClientSocket: connect(AF_INET)
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:23.684 2005
PID = 868
OpenClientSocket: host = "dotcal01.dot.state.nc.us"
                  service = "unieng"
                  socketfile = "/users/unison/tmp/unieng.sck"
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:23.684 2005
PID = 868
DEXOTEK ERRCODE 0x1130B -> TrSysClientOpen: OpenClientSocket
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:23.684 2005
PID = 868
DEXOTEK ERRCODE 0x1130B -> ConnectToService: TrSysClientOpen
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:26.325 2005
PID = 868
dx_getservbyname: getservbyname failed
                  service="unieng", protocol="tcp"
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:26.325 2005
PID = 868
dx_getservbyname: using default port 5730
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:32.872 2005
PID = 868
SYSTEM errno = 10060 -> Connection timed out
DEXOTEK ERRCODE 0x1130B -> OpenClientSocket: connect(AF_INET)
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:32.872 2005
PID = 868
OpenClientSocket: host = "dotcal01.dot.state.nc.us"
                  service = "unieng"
                  socketfile = "/users/unison/tmp/unieng.sck"
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:32.872 2005
PID = 868
DEXOTEK ERRCODE 0x1130B -> TrSysClientOpen: OpenClientSocket
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:32.872 2005
PID = 868
DEXOTEK ERRCODE 0x1130B -> ConnectToService: TrSysClientOpen
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:38.575 2005
PID = 868
dx_getservbyname: getservbyname failed
                  service="unieng", protocol="tcp"
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:38.575 2005
```

```
PID = 868
dx_getservbyname: using default port 5730
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:45.122 2005
PID = 868
SYSTEM errno = 10060 -> Connection timed out
DEXOTEK ERRCODE 0x1130B -> OpenClientSocket: connect(AF_INET)
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:45.122 2005
PID = 868
OpenClientSocket: host = "dotcal01.dot.state.nc.us"
                  service = "unieng"
                  socketfile = "/users/unison/tmp/unieng.sck"
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:45.122 2005
PID = 868
DEXOTEK ERRCODE 0x1130B -> TrSysClientOpen: OpenClientSocket
--------------------------------------------------------------------------------
DATE = Mon Nov 14 16:59:45.122 2005
PID = 868
DEXOTEK ERRCODE 0x1130B -> ConnectToService: TrSysClientOpen
```

```
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: C:\2005PM\GUILFORD\GPMIMY.IN (file 1, run 1).             *
*************************************************************************

* Reading I/M program description records from the following external
* data file: C:\2005PM\GUILFORD\IDLE.D


* Reading I/M program description records from the following external
* data file: C:\2005PM\GUILFORD\TRCEVAP.D


* Reading I/M program description records from the following external
* data file: C:\2005PM\GUILFORD\TRCOBD.D


* Reading Registration Distributions from the following external
* data file: C:\2005PM\GUILFORD\TRDAGE02.D
  M 49 Warning:
                 0.998     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 0.998     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 0.998     MYR sum not = 1. (will normalize)
  M 49 Warning:
                  1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                  1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                  1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                  1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                  1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                  1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                  1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                  1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                  1.00     MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 1ST QUARTER - RURAL INTERSTATE

* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
```

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 55.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
                User supplied VMT mix.
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D

  M 48 Warning:
              there are no sales for vehicle class HDGV8b

* Reading Ammonia (NH3) Basic Emissiion Rates
* from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
* from the external data file PMNH3SDR.D
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
               Minimum Temperature:  31.9 (F)
               Maximum Temperature:  53.2 (F)
                 Absolute Humidity:   75. grains/lb
                  Nominal Fuel RVP:  14.0 psi
                     Weathered RVP:  14.0 psi
               Fuel Sulfur Content:   30. ppm

               Exhaust I/M Program:  Yes
                  Evap I/M Program:  Yes
                       ATP Program:  Yes
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2748    0.2994    0.1021              0.0929    0.0002
0.0015    0.2249    0.0042    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.489     0.841     0.995     0.880     2.472    0.460
0.774     7.180      1.86     2.341

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 1ST QUARTER - RURAL PRIN ARTERIAL
```

```
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 53.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                   Calendar Year:  2010
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3444    0.3752    0.1279              0.0424    0.0003
0.0019    0.1026    0.0053    1.0000

-------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.484     0.835     0.989     0.874     2.441    0.439
0.738     6.438      1.80     1.382

-------------------------------------------------------------------------------------
```

```
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 1ST QUARTER - RURAL MIN ARTERIAL

* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                   Calendar Year:  2010
                           Month:  Jan.
                        Altitude:  Low
              Minimum Temperature:  31.9 (F)
              Maximum Temperature:  53.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3558    0.3875    0.1321              0.0342    0.0003
0.0020    0.0828    0.0054    1.0000

-------------------------------------------------------------------------------------
----------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite NOX :      0.456     0.796     0.947     0.834     2.241    0.353
0.592     5.127      1.58     1.107

-------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 1ST QUARTER - RURAL MAJ COLLECTOR

* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 43.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  31.9 (F)
              Maximum Temperature:  53.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
```

```
                                        GPMIMY
   VMT Distribution:    0.3670    0.3997    0.1362              0.0261    0.0003
0.0020    0.0631    0.0056    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.461     0.802     0.954     0.841     2.276    0.361
0.607     5.257      1.59     1.021

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 1ST QUARTER - RURAL MIN COLLECTOR

* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                   Calendar Year:  2010
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No
```

```
                                        GPMIMY
       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3665    0.3991    0.1361              0.0264    0.0003
0.0020    0.0640    0.0056    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.463     0.805     0.957     0.844     2.291    0.365
0.614     5.316      1.59     1.032

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 1ST QUARTER - RURAL LOCAL

* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                   Calendar Year:  2010
                           Month:  Jan.
                        Altitude:  Low
               Minimum Temperature:  31.9 (F)
               Maximum Temperature:  53.2 (F)
                 Absolute Humidity:   75. grains/lb
                  Nominal Fuel RVP:  14.0 psi
                     Weathered RVP:  14.0 psi
               Fuel Sulfur Content:   30. ppm
```

```
              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3670    0.3999    0.1364              0.0260    0.0003
0.0020    0.0628    0.0056    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.463     0.805     0.957     0.844     2.292    0.365
0.614     5.316      1.59     1.026

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 1ST QUARTER - URBAN INTERSTATE

* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 52.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                   Calendar Year:  2010
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
```

```
                                        GPMIMY
                 Absolute Humidity:   75. grains/lb
                  Nominal Fuel RVP:  14.0 psi
                     Weathered RVP:  14.0 psi
               Fuel Sulfur Content:   30. ppm

               Exhaust I/M Program:  Yes
                  Evap I/M Program:  Yes
                       ATP Program:  Yes
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3299    0.3592    0.1224              0.0530    0.0003
0.0018    0.1284    0.0050    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.482     0.831     0.985     0.870     2.425    0.428
0.720     6.699      1.76     1.577

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 1ST QUARTER - URBAN FREEWAY

* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 53.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.
```

```
                                        GPMIMY
                     Calendar Year:  2010
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  31.9 (F)
               Maximum Temperature:  53.2 (F)
                 Absolute Humidity:   75. grains/lb
                  Nominal Fuel RVP:  14.0 psi
                     Weathered RVP:  14.0 psi
               Fuel Sulfur Content:   30. ppm

               Exhaust I/M Program:  Yes
                  Evap I/M Program:  Yes
                       ATP Program:  Yes
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3588    0.3908    0.1332              0.0320    0.0003
0.0020    0.0774    0.0055    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.484     0.835     0.989     0.874     2.441    0.439
0.738     6.866      1.80     1.253

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 1ST QUARTER - URBAN PRIN ARTERIAL

* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 29.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
```

```
              there are no sales for vehicle class HDGV8b
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  31.9 (F)
              Maximum Temperature:  53.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3699    0.4029    0.1374              0.0240    0.0003
0.0021    0.0579    0.0056    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.455     0.796     0.949     0.835     2.042    0.345
0.579     5.009      1.46     0.968

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 1ST QUARTER - URBAN MIN ARTERIAL

* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 32.0
            will be used for all hours of the day.  100% of VMT
```

```
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  31.9 (F)
              Maximum Temperature:  53.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3793    0.4130    0.1408              0.0171    0.0003
0.0021    0.0416    0.0058    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.449     0.786     0.938     0.825     2.094    0.341
0.573     4.961      1.50     0.879

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 1ST QUARTER - URBAN COLLECTOR

* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  31.9 (F)
              Maximum Temperature:  53.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3826    0.4165    0.1420              0.0148    0.0003
0.0021    0.0359    0.0058    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.447     0.784     0.935     0.823     2.108    0.341
0.572     4.945      1.51     0.849

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 1ST QUARTER - URBAN LOCAL

* File 1, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
```

```
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                   Calendar Year:  2010
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3737    0.4069    0.1388              0.0212    0.0003
0.0021    0.0514    0.0057    1.0000

-------------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.447     0.784     0.935     0.823     2.109    0.341
0.572     4.944      1.51     0.925

-------------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 2ND QUARTER - RURAL INTERSTATE

* File 1, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
```

```
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 55.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  54.8 (F)
              Maximum Temperature:  77.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  10.1 psi
                    Weathered RVP:  10.1 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2748    0.2994    0.1021              0.0929    0.0002
0.0015    0.2249    0.0042    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.441     0.736     0.874     0.771     2.328    0.460
0.774     7.180      1.62     2.270

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 2ND QUARTER - RURAL PRIN ARTERIAL

* File 1, Run 1, Scenario 14.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 53.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                   Calendar Year:  2010
                           Month:  Jan.
                        Altitude:  Low
              Minimum Temperature:  54.8 (F)
              Maximum Temperature:  77.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  10.1 psi
                    Weathered RVP:  10.1 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3444    0.3752    0.1279              0.0424    0.0003
0.0019    0.1026    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.438     0.731     0.868     0.766     2.299    0.439
0.738     6.438      1.57     1.304

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
```

```
* 2010 2ND QUARTER - RURAL MIN ARTERIAL

* File 1, Run 1, Scenario 15.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  54.8 (F)
              Maximum Temperature:  77.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  10.1 psi
                    Weathered RVP:  10.1 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3558    0.3875    0.1321              0.0342    0.0003
0.0020    0.0828    0.0054    1.0000

-----------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.415     0.698     0.833     0.732     2.111    0.353
0.592     5.127      1.37     1.034
```

```
-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 2ND QUARTER - RURAL MAJ COLLECTOR

* File 1, Run 1, Scenario 16.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 43.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                   Calendar Year:  2010
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3670    0.3997    0.1362              0.0261    0.0003
0.0020    0.0631    0.0056    1.0000
```

```
--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.419     0.703     0.839     0.738     2.143    0.361
0.607     5.257      1.38     0.946

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 2ND QUARTER - RURAL MIN COLLECTOR

* File 1, Run 1, Scenario 17.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  54.8 (F)
              Maximum Temperature:  77.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  10.1 psi
                    Weathered RVP:  10.1 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
```

```
                                        GPMIMY
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3665    0.3991    0.1361              0.0264    0.0003
0.0020    0.0640    0.0056    1.0000

-------------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.421     0.706     0.842     0.741     2.158    0.365
0.614     5.316      1.39     0.957

-------------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 2ND QUARTER - RURAL LOCAL

* File 1, Run 1, Scenario 18.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                   Calendar Year:  2010
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
```

```
                                        GPMIMY
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3670    0.3999    0.1364              0.0260    0.0003
0.0020    0.0628    0.0056    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.421     0.706     0.842     0.741     2.158    0.365
0.614     5.316      1.39     0.951

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 2ND QUARTER - URBAN INTERSTATE

* File 1, Run 1, Scenario 19.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 52.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                   Calendar Year:  2010
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
```

```
                                        GPMIMY
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3299    0.3592    0.1224              0.0530    0.0003
0.0018    0.1284    0.0050    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.436     0.728     0.865     0.763     2.283    0.428
0.720     6.699      1.54     1.501

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 2ND QUARTER - URBAN FREEWAY

* File 1, Run 1, Scenario 20.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 53.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
```

```
                                        GPMIMY
                Minimum Temperature:  54.8 (F)
                Maximum Temperature:  77.4 (F)
                  Absolute Humidity:   75. grains/lb
                   Nominal Fuel RVP:  10.1 psi
                      Weathered RVP:  10.1 psi
                Fuel Sulfur Content:   30. ppm

                Exhaust I/M Program:  Yes
                   Evap I/M Program:  Yes
                        ATP Program:  Yes
                   Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3588    0.3908    0.1332              0.0320    0.0003
0.0020    0.0774    0.0055    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.438     0.731     0.868     0.766     2.299    0.439
0.738     6.866      1.57     1.174

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 2ND QUARTER - URBAN PRIN ARTERIAL

* File 1, Run 1, Scenario 21.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 29.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
```

```
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

     Calendar Year:  2010
             Month:  Jan.
          Altitude:  Low
Minimum Temperature:  54.8 (F)
Maximum Temperature:  77.4 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:  10.1 psi
      Weathered RVP:  10.1 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  Yes
   Evap I/M Program:  Yes
        ATP Program:  Yes
   Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3699    0.4029    0.1374              0.0240    0.0003
0.0021    0.0579    0.0056    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.419     0.700     0.838     0.735     1.923    0.345
0.579     5.009      1.28     0.897

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 2ND QUARTER - URBAN MIN ARTERIAL

* File 1, Run 1, Scenario 22.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 32.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
```

```
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                   Calendar Year:  2010
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3793    0.4130    0.1408              0.0171    0.0003
0.0021    0.0416    0.0058    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.412     0.691     0.827     0.726     1.972    0.341
0.573     4.961      1.31     0.807

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 2ND QUARTER - URBAN COLLECTOR

* File 1, Run 1, Scenario 23.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
```

```
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  54.8 (F)
              Maximum Temperature:  77.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  10.1 psi
                    Weathered RVP:  10.1 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3826    0.4165    0.1420              0.0148    0.0003
0.0021    0.0359    0.0058    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.410     0.689     0.825     0.724     1.986    0.341
0.572     4.945      1.32     0.777

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 2ND QUARTER - URBAN LOCAL

* File 1, Run 1, Scenario 24.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
```

```
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  54.8 (F)
              Maximum Temperature:  77.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  10.1 psi
                    Weathered RVP:  10.1 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3737    0.4069    0.1388              0.0212    0.0003
0.0021    0.0514    0.0057    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.410     0.689     0.825     0.723     1.987    0.341
0.572     4.944      1.32     0.853

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 3RD QUARTER - RURAL INTERSTATE

* File 1, Run 1, Scenario 25.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

```
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 55.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2010
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2748    0.2994    0.1021              0.0929    0.0002
0.0015    0.2249    0.0042    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.414     0.686     0.821     0.720     2.213    0.430
0.734     6.481      1.49     2.074

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 3RD QUARTER - RURAL PRIN ARTERIAL

* File 1, Run 1, Scenario 26.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
```

```
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 53.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2010
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3444    0.3752    0.1279              0.0424    0.0003
0.0019    0.1026    0.0053    1.0000

-------------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.412     0.681     0.816     0.715     2.185    0.411
0.700     5.817      1.43     1.200

-------------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 3RD QUARTER - RURAL MIN ARTERIAL

* File 1, Run 1, Scenario 27.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
```

```
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2010
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3558    0.3875    0.1321              0.0342    0.0003
0.0020    0.0828    0.0054    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.394     0.652     0.785     0.686     2.006    0.330
0.562     4.632      1.25     0.957

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 3RD QUARTER - RURAL MAJ COLLECTOR

* File 1, Run 1, Scenario 28.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
```

```
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 43.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2010
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3670    0.3997    0.1362              0.0261    0.0003
0.0020    0.0631    0.0056    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.397     0.657     0.790     0.691     2.037    0.338
0.576     4.750      1.26     0.877

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 3RD QUARTER - RURAL MIN COLLECTOR

* File 1, Run 1, Scenario 29.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2010
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3665    0.3991    0.1361              0.0264    0.0003
0.0020    0.0640    0.0056    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.398     0.659     0.793     0.693     2.051    0.342
0.582     4.803      1.27     0.887

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 3RD QUARTER - RURAL LOCAL

* File 1, Run 1, Scenario 30.
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2010
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.4 (F)
              Maximum Temperature:  84.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3670	0.3999	0.1364		0.0260	0.0003	0.0020	0.0628	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.398	0.659	0.793	0.693	2.051	0.342	0.582	4.803	1.27	0.881

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 3RD QUARTER - URBAN INTERSTATE
```

```
* File 1, Run 1, Scenario 31.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 52.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2010
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.4 (F)
              Maximum Temperature:  84.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3299    0.3592    0.1224              0.0530    0.0003
0.0018    0.1284    0.0050    1.0000

-------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.410     0.679     0.813     0.713     2.170    0.401
0.683     6.046      1.41     1.378

-------------------------------------------------------------------------------------
-----------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 3RD QUARTER - URBAN FREEWAY

* File 1, Run 1, Scenario 32.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 53.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2010
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3588    0.3908    0.1332              0.0320    0.0003
0.0020    0.0774    0.0055    1.0000

-----------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.412     0.681     0.816     0.715     2.185    0.411
0.700     6.197      1.43     1.082

-----------------------------------------------------------------------------------------
```

```
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 3RD QUARTER - URBAN PRIN ARTERIAL

* File 1, Run 1, Scenario 33.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 29.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2010
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3699    0.4029    0.1374              0.0240    0.0003
0.0020    0.0579    0.0056    1.0000

-----------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.401     0.656     0.791     0.690     1.827    0.323
0.550     4.526      1.16     0.835
```

```
-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 3RD QUARTER - URBAN MIN ARTERIAL

* File 1, Run 1, Scenario 34.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 32.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2010
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3793    0.4130    0.1408              0.0171    0.0003
0.0021    0.0416    0.0058    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
```

```
                                        GPMIMY
     Composite NOX :      0.393     0.647     0.781     0.681     1.874    0.319
0.543     4.482      1.19     0.753

--------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 3RD QUARTER - URBAN COLLECTOR

* File 1, Run 1, Scenario 35.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2010
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.4 (F)
              Maximum Temperature:  84.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3826    0.4165    0.1420              0.0148    0.0003
0.0021    0.0359    0.0058    1.0000

--------------------------------------------------------------------------------
```

```
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.391     0.645     0.778     0.679     1.887    0.319
0.542     4.467      1.20     0.725

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 3RD QUARTER - URBAN LOCAL

* File 1, Run 1, Scenario 36.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2010
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                           ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3737    0.4069    0.1388              0.0212    0.0003
0.0021    0.0514    0.0057    1.0000
```

```
--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.391     0.645     0.778     0.679     1.888    0.319
0.542     4.467      1.20     0.794

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 4TH QUARTER - RURAL INTERSTATE

* File 1, Run 1, Scenario 37.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 55.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2010
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
```

```
                                        GPMIMY
   VMT Distribution:    0.2748    0.2994    0.1021              0.0929    0.0002
0.0015    0.2249    0.0042    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.449     0.775     0.926     0.813     2.208    0.430
0.734     6.481      1.74     2.121

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 4TH QUARTER - RURAL PRIN ARTERIAL

* File 1, Run 1, Scenario 38.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 53.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2010
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
```

```
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3444    0.3752    0.1279              0.0424    0.0003
0.0019    0.1026    0.0053    1.0000

--------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.445     0.769     0.919     0.807     2.180    0.411
0.700     5.817      1.68     1.259

--------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 4TH QUARTER - RURAL MIN ARTERIAL

* File 1, Run 1, Scenario 39.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2010
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
```

```
                                        GPMIMY
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3558    0.3875    0.1321              0.0342    0.0003
0.0020    0.0828    0.0054    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.419     0.734     0.881     0.771     2.001    0.330
0.562     4.632      1.47     1.011

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 4TH QUARTER - RURAL MAJ COLLECTOR

* File 1, Run 1, Scenario 40.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 43.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2010
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No
```

```
       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3670    0.3997    0.1362              0.0261    0.0003
0.0020    0.0631    0.0056    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.424     0.740     0.887     0.777     2.032    0.338
0.576     4.750      1.48     0.934

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 4TH QUARTER - RURAL MIN COLLECTOR

* File 1, Run 1, Scenario 41.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2010
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
```

```
                                        GPMIMY
                      ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3665    0.3991    0.1361              0.0264    0.0003
0.0020    0.0640    0.0056    1.0000

-------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.426     0.743     0.890     0.780     2.046    0.342
0.582     4.803      1.48     0.944

-------------------------------------------------------------------------------------
-----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 4TH QUARTER - RURAL LOCAL

* File 1, Run 1, Scenario 42.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2010
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm
```

```
                                        GPMIMY
              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3670    0.3999    0.1364              0.0260    0.0003
0.0020    0.0628    0.0056    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.426     0.743     0.890     0.780     2.046    0.342
0.582     4.803      1.48     0.939

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 4TH QUARTER - URBAN INTERSTATE

* File 1, Run 1, Scenario 43.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 52.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2010
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
```

```
                                        GPMIMY
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3299    0.3592    0.1224              0.0530    0.0003
0.0018    0.1284    0.0050    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.443     0.766     0.916     0.804     2.165    0.401
0.683     6.046      1.65     1.434

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 4TH QUARTER - URBAN FREEWAY

* File 1, Run 1, Scenario 44.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 53.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2010
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
```

```
                                        GPMIMY
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3588    0.3908    0.1332              0.0320    0.0003
0.0020    0.0774    0.0055    1.0000

-------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.445     0.769     0.919     0.807     2.180    0.411
0.700     6.197      1.68     1.143

-------------------------------------------------------------------------------------
-----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 4TH QUARTER - URBAN PRIN ARTERIAL

* File 1, Run 1, Scenario 45.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 29.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2010
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
```

```
                                        GPMIMY
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3699    0.4029    0.1374              0.0240    0.0003
0.0020    0.0579    0.0056    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.419     0.734     0.883     0.772     1.823    0.323
0.550     4.526      1.36     0.887

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 4TH QUARTER - URBAN MIN ARTERIAL

* File 1, Run 1, Scenario 46.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 32.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2010
                            Month:  July
```

```
                                        GPMIMY
                          Altitude:  Low
               Minimum Temperature:  38.4 (F)
               Maximum Temperature:  60.2 (F)
                 Absolute Humidity:   75. grains/lb
                  Nominal Fuel RVP:  14.0 psi
                     Weathered RVP:  14.0 psi
               Fuel Sulfur Content:   30. ppm

               Exhaust I/M Program:  Yes
                  Evap I/M Program:  Yes
                       ATP Program:  Yes
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3793    0.4130    0.1408              0.0171    0.0003
0.0021    0.0416    0.0058    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.413     0.725     0.873     0.763     1.870    0.319
0.543     4.482      1.39     0.807

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 4TH QUARTER - URBAN COLLECTOR

* File 1, Run 1, Scenario 47.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
```

```
                                        GPMIMY
                     Calendar Year:  2010
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  38.4 (F)
               Maximum Temperature:  60.2 (F)
                 Absolute Humidity:   75. grains/lb
                  Nominal Fuel RVP:  14.0 psi
                     Weathered RVP:  14.0 psi
               Fuel Sulfur Content:   30. ppm

               Exhaust I/M Program:  Yes
                  Evap I/M Program:  Yes
                       ATP Program:  Yes
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3826    0.4165    0.1420              0.0148    0.0003
0.0021    0.0359    0.0058    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.411     0.723     0.870     0.761     1.883    0.319
0.542     4.467      1.41     0.780

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2010 4TH QUARTER - URBAN LOCAL

* File 1, Run 1, Scenario 48.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
```

```
there are no sales for vehicle class HDGV8b

      Calendar Year:  2010
              Month:  July
           Altitude:  Low
Minimum Temperature:  38.4 (F)
Maximum Temperature:  60.2 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:  14.0 psi
      Weathered RVP:  14.0 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  Yes
   Evap I/M Program:  Yes
        ATP Program:  Yes
   Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3737    0.4069    0.1388              0.0212    0.0003
0.0021    0.0514    0.0057    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.411     0.723     0.870     0.761     1.884    0.319
0.542     4.467      1.41     0.847

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 1ST QUARTER - RURAL INTERSTATE

* File 1, Run 1, Scenario 49.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 56.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
```

```
                User supplied VMT mix.
  M 48 Warning:
               there are no sales for vehicle class HDGV8b
  M 48 Warning:
               there are no sales for vehicle class LDDT12

                     Calendar Year:  2020
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  31.9 (F)
               Maximum Temperature:  53.2 (F)
                 Absolute Humidity:   75. grains/lb
                  Nominal Fuel RVP:  14.0 psi
                     Weathered RVP:  14.0 psi
               Fuel Sulfur Content:   30. ppm

               Exhaust I/M Program:  Yes
                  Evap I/M Program:  Yes
                       ATP Program:  Yes
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2172    0.3424    0.1168              0.0929    0.0002
0.0017    0.2248    0.0040    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.145     0.331     0.416     0.353     0.610    0.077
0.242     1.445      1.90     0.583

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 1ST QUARTER - RURAL PRIN ARTERIAL

* File 1, Run 1, Scenario 50.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 54.0
```

```
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2020
                          Month:  Jan.
                       Altitude:  Low
            Minimum Temperature:  31.9 (F)
            Maximum Temperature:  53.2 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:  14.0 psi
                  Weathered RVP:  14.0 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  Yes
               Evap I/M Program:  Yes
                     ATP Program:  Yes
               Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2722    0.4292    0.1463              0.0423    0.0002
0.0022    0.1026    0.0050    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.143     0.328     0.413     0.350     0.602    0.073
0.228     1.304      1.83     0.409

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 1ST QUARTER - RURAL MIN ARTERIAL

* File 1, Run 1, Scenario 51.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  31.9 (F)
              Maximum Temperature:  53.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2812    0.4432    0.1511              0.0342    0.0003
0.0022    0.0827    0.0051    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.132     0.310     0.391     0.331     0.549    0.057
0.179     1.015      1.58     0.345

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 1ST QUARTER - RURAL MAJ COLLECTOR

* File 1, Run 1, Scenario 52.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
```

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2898    0.4573    0.1560              0.0260    0.0003
0.0023    0.0630    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.135     0.314     0.396     0.335     0.561    0.059
0.185     1.051      1.59     0.334

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 1ST QUARTER - RURAL MIN COLLECTOR

* File 1, Run 1, Scenario 53.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
```

```
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 45.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  31.9 (F)
              Maximum Temperature:  53.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2894    0.4566    0.1557              0.0264    0.0003
0.0023    0.0640    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.136     0.316     0.398     0.336     0.565    0.060
0.187     1.064      1.60     0.337

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 1ST QUARTER - RURAL LOCAL

* File 1, Run 1, Scenario 54.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
```

```
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2900    0.4574    0.1560              0.0259    0.0003
0.0023    0.0628    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.135     0.314     0.396     0.335     0.561    0.059
0.185     1.051      1.59     0.334

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 1ST QUARTER - URBAN INTERSTATE

* File 1, Run 1, Scenario 55.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 52.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2605    0.4110    0.1401              0.0530    0.0002
0.0021    0.1283    0.0048    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.141     0.325     0.409     0.347     0.594    0.069
0.217     1.299      1.76     0.435

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
```

```
* 2020 1ST QUARTER - URBAN FREEWAY

* File 1, Run 1, Scenario 56.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 54.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2833    0.4471    0.1525              0.0319    0.0003
0.0023    0.0774    0.0052    1.0000

-----------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.143     0.328     0.413     0.350     0.602    0.073
0.228     1.364      1.83     0.385
```

```
---------------------------------------------------------------------------------------
-----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 1ST QUARTER - URBAN PRIN ARTERIAL

* File 1, Run 1, Scenario 57.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 31.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2921    0.4608    0.1572              0.0239    0.0003
0.0023    0.0581    0.0053    1.0000

---------------------------------------------------------------------------------------
-----------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite NOX :      0.130     0.307     0.388     0.328     0.508    0.055
0.173     0.982      1.49     0.318

--------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 1ST QUARTER - URBAN MIN ARTERIAL

* File 1, Run 1, Scenario 58.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 31.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  31.9 (F)
              Maximum Temperature:  53.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2995    0.4725    0.1611              0.0172    0.0003
```

```
                                        GPMIMY
0.0024    0.0415    0.0055    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.130     0.307     0.388     0.327     0.508    0.055
0.173     0.980      1.49     0.305

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 1ST QUARTER - URBAN COLLECTOR

* File 1, Run 1, Scenario 59.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 32.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
```

```
                                        GPMIMY
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3021    0.4764    0.1625              0.0149    0.0003
0.0024    0.0359    0.0055    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.130     0.306     0.387     0.326     0.513    0.055
0.173     0.979      1.50     0.299

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 1ST QUARTER - URBAN LOCAL

* File 1, Run 1, Scenario 60.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
```

```
                                        GPMIMY
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2950    0.4655    0.1587              0.0213    0.0003
0.0024    0.0514    0.0054    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.129     0.305     0.385     0.326     0.517    0.055
0.173     0.980      1.51     0.311

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 2ND QUARTER - RURAL INTERSTATE

* File 1, Run 1, Scenario 61.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 56.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm
```

```
              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2172    0.3424    0.1168              0.0929    0.0002
0.0017    0.2248    0.0040    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.134     0.295     0.371     0.314     0.575    0.077
0.242     1.445      1.65     0.559

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 2ND QUARTER - RURAL PRIN ARTERIAL

* File 1, Run 1, Scenario 62.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 54.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
```

```
                                        GPMIMY
                 Absolute Humidity:   75. grains/lb
                  Nominal Fuel RVP:  10.1 psi
                     Weathered RVP:  10.1 psi
               Fuel Sulfur Content:   30. ppm

               Exhaust I/M Program:  Yes
                  Evap I/M Program:  Yes
                       ATP Program:  Yes
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2722    0.4292    0.1463              0.0423    0.0002
0.0022    0.1026    0.0050    1.0000

-----------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.132     0.292     0.368     0.312     0.567    0.073
0.228     1.304      1.59     0.382

-----------------------------------------------------------------------------------------
-----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 2ND QUARTER - RURAL MIN ARTERIAL

* File 1, Run 1, Scenario 63.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
```

```
                                        GPMIMY
                                 Month:  Jan.
                             Altitude:  Low
                 Minimum Temperature:  54.8 (F)
                 Maximum Temperature:  77.4 (F)
                   Absolute Humidity:   75. grains/lb
                    Nominal Fuel RVP:  10.1 psi
                       Weathered RVP:  10.1 psi
                 Fuel Sulfur Content:   30. ppm

                 Exhaust I/M Program:  Yes
                    Evap I/M Program:  Yes
                         ATP Program:  Yes
                    Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2812    0.4432    0.1511              0.0342    0.0003
0.0022    0.0827    0.0051    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.124     0.277     0.350     0.296     0.517    0.057
0.179     1.015      1.37     0.319

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 2ND QUARTER - RURAL MAJ COLLECTOR

* File 1, Run 1, Scenario 64.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
```

```
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  54.8 (F)
              Maximum Temperature:  77.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  10.1 psi
                    Weathered RVP:  10.1 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2898    0.4573    0.1560              0.0260    0.0003
0.0023    0.0630    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.126     0.280     0.354     0.299     0.529    0.059
0.185     1.051      1.39     0.308

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 2ND QUARTER - RURAL MIN COLLECTOR

* File 1, Run 1, Scenario 65.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 45.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
```

```
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  54.8 (F)
              Maximum Temperature:  77.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  10.1 psi
                    Weathered RVP:  10.1 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2894    0.4566    0.1557              0.0264    0.0003
0.0023    0.0640    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.126     0.282     0.355     0.300     0.532    0.060
0.187     1.064      1.39     0.310

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 2ND QUARTER - RURAL LOCAL

* File 1, Run 1, Scenario 66.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
```

```
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2900    0.4574    0.1560              0.0259    0.0003
0.0023    0.0628    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.126     0.280     0.354     0.299     0.529    0.059
0.185     1.051      1.39     0.308

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 2ND QUARTER - URBAN INTERSTATE

* File 1, Run 1, Scenario 67.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 52.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2605    0.4110    0.1401              0.0530    0.0002
0.0021    0.1283    0.0048    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.131     0.290     0.365     0.309     0.559    0.069
0.217     1.299      1.54     0.409

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 2ND QUARTER - URBAN FREEWAY

* File 1, Run 1, Scenario 68.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
```

```
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 54.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2833    0.4471    0.1525              0.0319    0.0003
0.0023    0.0774    0.0052    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.132     0.292     0.368     0.312     0.567    0.073
0.228     1.364      1.59     0.357

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 2ND QUARTER - URBAN PRIN ARTERIAL

* File 1, Run 1, Scenario 69.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
```

```
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 29.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  54.8 (F)
              Maximum Temperature:  77.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  10.1 psi
                    Weathered RVP:  10.1 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2921    0.4608    0.1572              0.0239    0.0003
0.0023    0.0581    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.125     0.277     0.351     0.296     0.471    0.056
0.175     0.991      1.28     0.296

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 2ND QUARTER - URBAN MIN ARTERIAL

* File 1, Run 1, Scenario 70.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
```

```
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 31.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2995    0.4725    0.1611              0.0172    0.0003
0.0024    0.0415    0.0055    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.123     0.275     0.348     0.293     0.479    0.055
0.173     0.980      1.30     0.279

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 2ND QUARTER - URBAN COLLECTOR

* File 1, Run 1, Scenario 71.
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 32.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3021    0.4764    0.1625              0.0149    0.0003
0.0024    0.0359    0.0055    1.0000

-------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.123     0.274     0.346     0.292     0.483    0.055
0.173     0.979      1.31     0.274

-------------------------------------------------------------------------------------
-----------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 2ND QUARTER - URBAN LOCAL

* File 1, Run 1, Scenario 72.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2950    0.4655    0.1587              0.0213    0.0003
0.0024    0.0514    0.0054    1.0000

-----------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.122     0.273     0.345     0.291     0.487    0.055
0.173     0.980      1.32     0.286
```

```
-----------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 3RD QUARTER - RURAL INTERSTATE

* File 1, Run 1, Scenario 73.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 56.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.4 (F)
              Maximum Temperature:  84.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2172    0.3424    0.1168              0.0928    0.0002
0.0017    0.2249    0.0040    1.0000
```

```
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.130     0.282     0.355     0.301     0.558    0.074
0.235     1.353      1.52     0.529

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 3RD QUARTER - RURAL PRIN ARTERIAL

* File 1, Run 1, Scenario 74.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 54.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.4 (F)
              Maximum Temperature:  84.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
```

```
                                        GPMIMY
   VMT Distribution:    0.2722    0.4292    0.1463              0.0423    0.0002
0.0022    0.1026    0.0050    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.129     0.280     0.352     0.298     0.550    0.069
0.222     1.223      1.46     0.363

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 3RD QUARTER - RURAL MIN ARTERIAL

* File 1, Run 1, Scenario 75.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
```

```
                                        GPMIMY
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2812    0.4432    0.1511              0.0342    0.0003
0.0022    0.0827    0.0051    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.122     0.266     0.335     0.284     0.502    0.055
0.174     0.951      1.25     0.306

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 3RD QUARTER - RURAL MAJ COLLECTOR

* File 1, Run 1, Scenario 76.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.4 (F)
              Maximum Temperature:  84.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
```

```
                                        GPMIMY
                      ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2898    0.4573    0.1560              0.0260    0.0003
0.0023    0.0630    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.124     0.269     0.339     0.287     0.513    0.056
0.180     0.986      1.27     0.295

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 3RD QUARTER - RURAL MIN COLLECTOR

* File 1, Run 1, Scenario 77.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 45.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
```

```
                                        GPMIMY
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2894    0.4566    0.1557              0.0264    0.0003
0.0023    0.0640    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.124     0.270     0.340     0.288     0.517    0.057
0.182     0.998      1.27     0.297

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 3RD QUARTER - RURAL LOCAL

* File 1, Run 1, Scenario 78.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.4 (F)
```

```
                                        GPMIMY
              Maximum Temperature:  84.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2900    0.4574    0.1560              0.0259    0.0003
0.0023    0.0628    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.124     0.269     0.339     0.287     0.513    0.056
0.180     0.986      1.27     0.294

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 3RD QUARTER - URBAN INTERSTATE

* File 1, Run 1, Scenario 79.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 52.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
```

```
                                        GPMIMY
                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.4 (F)
              Maximum Temperature:  84.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2605    0.4110    0.1401              0.0530    0.0002
0.0021    0.1283    0.0048    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.128     0.278     0.349     0.296     0.543    0.066
0.211     1.215      1.41     0.388

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 3RD QUARTER - URBAN FREEWAY

* File 1, Run 1, Scenario 80.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 54.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
```

```
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.4 (F)
              Maximum Temperature:  84.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2833    0.4471    0.1525              0.0319    0.0003
0.0023    0.0774    0.0052    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.129     0.280     0.352     0.298     0.550    0.069
0.222     1.277      1.46     0.340

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 3RD QUARTER - URBAN PRIN ARTERIAL

* File 1, Run 1, Scenario 81.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 29.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
```

```
          type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
                GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2921    0.4608    0.1572              0.0239    0.0003
0.0023    0.0581    0.0053    1.0000

-------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.126     0.267     0.338     0.285     0.457    0.053
0.170     0.930      1.16     0.284

-------------------------------------------------------------------------------------
-----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 3RD QUARTER - URBAN MIN ARTERIAL

* File 1, Run 1, Scenario 82.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
```

```
  M583 Warning:
            The user supplied arterial average speed of 31.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2995    0.4725    0.1611              0.0172    0.0003
0.0024    0.0415    0.0055    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.123     0.264     0.334     0.282     0.465    0.053
0.168     0.919      1.18     0.269

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 3RD QUARTER - URBAN COLLECTOR

* File 1, Run 1, Scenario 83.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
```

```
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 32.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3021    0.4764    0.1625              0.0149    0.0003
0.0024    0.0359    0.0055    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.122     0.264     0.333     0.281     0.469    0.053
0.168     0.918      1.19     0.264

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 3RD QUARTER - URBAN LOCAL

* File 1, Run 1, Scenario 84.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

```
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2950    0.4655    0.1587              0.0213    0.0003
0.0024    0.0514    0.0054    1.0000

-------------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.122     0.263     0.332     0.280     0.473    0.053
0.168     0.919      1.20     0.275

-------------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 4TH QUARTER - RURAL INTERSTATE

* File 1, Run 1, Scenario 85.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
```

```
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 56.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2172    0.3424    0.1168              0.0928    0.0002
0.0017    0.2249    0.0040    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.136     0.314     0.393     0.334     0.556    0.074
0.235     1.353      1.78     0.546

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 4TH QUARTER - RURAL PRIN ARTERIAL

* File 1, Run 1, Scenario 86.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
```

```
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 54.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:               <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2722    0.4292    0.1463              0.0423    0.0002
0.0022    0.1026    0.0050    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.134     0.311     0.390     0.331     0.549    0.069
0.222     1.223      1.71     0.385

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 4TH QUARTER - RURAL MIN ARTERIAL
```

```
* File 1, Run 1, Scenario 87.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2812    0.4432    0.1511              0.0342    0.0003
0.0022    0.0827    0.0051    1.0000

------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.125     0.294     0.370     0.313     0.501    0.055
0.174     0.951      1.47     0.325

------------------------------------------------------------------------------------
-----------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 4TH QUARTER - RURAL MAJ COLLECTOR

* File 1, Run 1, Scenario 88.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2898    0.4573    0.1560              0.0260    0.0003
0.0023    0.0630    0.0053    1.0000

-----------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.127     0.298     0.374     0.317     0.512    0.056
```

```
0.180     0.986      1.48     0.315

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 4TH QUARTER - RURAL MIN COLLECTOR

* File 1, Run 1, Scenario 89.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 45.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:               <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2894    0.4566    0.1557              0.0264    0.0003
0.0023    0.0640    0.0053    1.0000
```

```
--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.128     0.299     0.376     0.319     0.515    0.057
0.182     0.998      1.49     0.318

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 4TH QUARTER - RURAL LOCAL

* File 1, Run 1, Scenario 90.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
```

```
------    ------    ------    ------
   VMT Distribution:    0.2900    0.4574    0.1560              0.0259    0.0003
0.0023    0.0628    0.0053    1.0000

--------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.127     0.298     0.374     0.317     0.512    0.056
0.180     0.986      1.48     0.315

--------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 4TH QUARTER - URBAN INTERSTATE

* File 1, Run 1, Scenario 91.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 52.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No
```

```
                                        GPMIMY
       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2605    0.4110    0.1401              0.0530    0.0002
0.0021    0.1283    0.0048    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.133     0.308     0.387     0.328     0.542    0.066
0.211     1.215      1.65     0.409

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 4TH QUARTER - URBAN FREEWAY

* File 1, Run 1, Scenario 92.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 54.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
```

```
                                        GPMIMY
                  Evap I/M Program:  Yes
                       ATP Program:  Yes
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2833    0.4471    0.1525              0.0319    0.0003
0.0023    0.0774    0.0052    1.0000

-------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.134     0.311     0.390     0.331     0.549    0.069
0.222     1.277      1.71     0.362

-------------------------------------------------------------------------------------
-----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 4TH QUARTER - URBAN PRIN ARTERIAL

* File 1, Run 1, Scenario 93.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 29.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
```

```
                                        GPMIMY
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2921    0.4608    0.1572              0.0239    0.0003
0.0023    0.0581    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.124     0.294     0.370     0.313     0.456    0.053
0.170     0.930      1.36     0.302

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 4TH QUARTER - URBAN MIN ARTERIAL

* File 1, Run 1, Scenario 94.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 31.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
```

```
                                        GPMIMY
                Minimum Temperature:  38.4 (F)
                Maximum Temperature:  60.2 (F)
                  Absolute Humidity:   75. grains/lb
                   Nominal Fuel RVP:  14.0 psi
                      Weathered RVP:  14.0 psi
                Fuel Sulfur Content:   30. ppm

                Exhaust I/M Program:  Yes
                   Evap I/M Program:  Yes
                        ATP Program:  Yes
                   Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2995    0.4725    0.1611              0.0172    0.0003
0.0024    0.0415    0.0055    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.122     0.291     0.366     0.310     0.464    0.053
0.168     0.919      1.38     0.287

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 4TH QUARTER - URBAN COLLECTOR

* File 1, Run 1, Scenario 95.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 32.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
```

```
                Calendar Year:  2020
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  38.4 (F)
          Maximum Temperature:  60.2 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:  14.0 psi
                Weathered RVP:  14.0 psi
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  Yes
             Evap I/M Program:  Yes
                  ATP Program:  Yes
             Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3021    0.4764    0.1625              0.0149    0.0003
0.0024    0.0359    0.0055    1.0000

-------------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.122     0.290     0.365     0.309     0.468    0.053
0.168     0.918      1.39     0.282

-------------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2020 4TH QUARTER - URBAN LOCAL

* File 1, Run 1, Scenario 96.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
```

```
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2950    0.4655    0.1587              0.0213    0.0003
0.0024    0.0514    0.0054    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.121     0.289     0.364     0.308     0.471    0.053
0.168     0.919      1.41     0.294

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 1ST QUARTER - RURAL INTERSTATE

* File 1, Run 1, Scenario 97.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 56.0
            will be used for all hours of the day. 100% of VMT
```

```
           has been assigned to the freeway roadway type for
           all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2172    0.3424    0.1168              0.0929    0.0002
0.0017    0.2248    0.0040    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.100     0.217     0.288     0.235     0.220    0.033
0.146     0.669      1.90     0.308

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 1ST QUARTER - RURAL PRIN ARTERIAL

* File 1, Run 1, Scenario 98.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
```

```
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 53.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2722    0.4292    0.1463              0.0423    0.0002
0.0022    0.1026    0.0050    1.0000

-------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.098     0.214     0.284     0.232     0.215    0.030
0.134     0.614      1.80     0.241

-------------------------------------------------------------------------------------
-----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 1ST QUARTER - RURAL MIN ARTERIAL

* File 1, Run 1, Scenario 99.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
```

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2812    0.4432    0.1511              0.0342    0.0003
0.0022    0.0827    0.0051    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.091     0.201     0.267     0.218     0.198    0.024
0.107     0.488      1.58     0.210

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 1ST QUARTER - RURAL MAJ COLLECTOR

* File 1, Run 1, Scenario 100.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

```
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2898    0.4573    0.1560              0.0260    0.0003
0.0023    0.0630    0.0053    1.0000

--------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.093     0.205     0.271     0.221     0.202    0.025
0.111     0.506      1.59     0.208

--------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 1ST QUARTER - RURAL MIN COLLECTOR

* File 1, Run 1, Scenario 101.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
```

```
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 45.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  31.9 (F)
              Maximum Temperature:  53.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2894    0.4566    0.1557              0.0264    0.0003
0.0023    0.0640    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.093     0.205     0.272     0.222     0.204    0.025
0.112     0.512      1.60     0.210

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 1ST QUARTER - RURAL LOCAL

* File 1, Run 1, Scenario 102.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
           GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2900    0.4574    0.1560              0.0259    0.0003
0.0023    0.0628    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.093     0.205     0.271     0.221     0.202    0.025
0.111     0.506      1.59     0.208

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 1ST QUARTER - URBAN INTERSTATE
```

```
* File 1, Run 1, Scenario 103.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 52.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  31.9 (F)
              Maximum Temperature:  53.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2605    0.4110    0.1401              0.0530    0.0002
0.0021    0.1283    0.0048    1.0000

-------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.097     0.213     0.282     0.231     0.214    0.029
0.130     0.598      1.76     0.249

-------------------------------------------------------------------------------------
```

```
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 1ST QUARTER - URBAN FREEWAY

* File 1, Run 1, Scenario 104.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 54.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  31.9 (F)
              Maximum Temperature:  53.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2833    0.4471    0.1525              0.0319    0.0003
0.0023    0.0774    0.0052    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
```

```
                                        GPMIMY
     Composite NOX :      0.099     0.215     0.285     0.233     0.217    0.031
0.137     0.630      1.83     0.233

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 1ST QUARTER - URBAN PRIN ARTERIAL

* File 1, Run 1, Scenario 105.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 28.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2921    0.4608    0.1572              0.0239    0.0003
0.0023    0.0581    0.0053    1.0000
```

```
-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.091     0.202     0.268     0.219     0.179    0.024
0.105     0.480      1.45     0.202

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 1ST QUARTER - URBAN MIN ARTERIAL

* File 1, Run 1, Scenario 106.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 31.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  31.9 (F)
              Maximum Temperature:  53.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
```

```
                                        GPMIMY
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2995    0.4725    0.1611              0.0172    0.0003
0.0024    0.0415    0.0055    1.0000

-------------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.089     0.199     0.263     0.215     0.183    0.023
0.104     0.471      1.49     0.194

-------------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 1ST QUARTER - URBAN COLLECTOR

* File 1, Run 1, Scenario 107.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 32.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  31.9 (F)
             Maximum Temperature:  53.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No
```

```
       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3021    0.4764    0.1625              0.0149    0.0003
0.0024    0.0359    0.0055    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.089     0.198     0.262     0.214     0.185    0.023
0.103     0.470      1.50     0.192

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 1ST QUARTER - URBAN LOCAL

* File 1, Run 1, Scenario 108.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  31.9 (F)
              Maximum Temperature:  53.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm
```

```
                                        GPMIMY
              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2950    0.4655    0.1587              0.0213    0.0003
0.0024    0.0514    0.0054    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.088     0.197     0.262     0.214     0.186    0.023
0.103     0.470      1.51     0.196

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 2ND QUARTER - RURAL INTERSTATE

* File 1, Run 1, Scenario 109.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 56.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
```

```
                                        GPMIMY
                 Nominal Fuel RVP:  10.1 psi
                    Weathered RVP:  10.1 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2172    0.3424    0.1168              0.0929    0.0002
0.0017    0.2248    0.0040    1.0000

-------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.093     0.196     0.259     0.212     0.207    0.033
0.146     0.669      1.65     0.294

-------------------------------------------------------------------------------------
-----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 2ND QUARTER - RURAL PRIN ARTERIAL

* File 1, Run 1, Scenario 110.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 53.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  Jan.
```

```
                                        GPMIMY
                         Altitude:  Low
              Minimum Temperature:  54.8 (F)
              Maximum Temperature:  77.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  10.1 psi
                    Weathered RVP:  10.1 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2722    0.4292    0.1463              0.0423    0.0002
0.0022    0.1026    0.0050    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.092     0.193     0.256     0.209     0.203    0.030
0.134     0.614      1.57     0.225

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 2ND QUARTER - RURAL MIN ARTERIAL

* File 1, Run 1, Scenario 111.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
```

```
there are no sales for vehicle class LDDT12

      Calendar Year:  2030
              Month:  Jan.
           Altitude:  Low
Minimum Temperature:  54.8 (F)
Maximum Temperature:  77.4 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:  10.1 psi
      Weathered RVP:  10.1 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  Yes
   Evap I/M Program:  Yes
        ATP Program:  Yes
   Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2812    0.4432    0.1511              0.0342    0.0003
0.0022    0.0827    0.0051    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.086     0.182     0.241     0.197     0.186    0.024
0.107     0.488      1.37     0.195

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 2ND QUARTER - RURAL MAJ COLLECTOR

* File 1, Run 1, Scenario 112.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
```

```
                User supplied VMT mix.
  M 48 Warning:
               there are no sales for vehicle class HDGV8b
  M 48 Warning:
               there are no sales for vehicle class LDDT12

                     Calendar Year:  2030
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  54.8 (F)
               Maximum Temperature:  77.4 (F)
                 Absolute Humidity:   75. grains/lb
                  Nominal Fuel RVP:  10.1 psi
                     Weathered RVP:  10.1 psi
               Fuel Sulfur Content:   30. ppm

               Exhaust I/M Program:  Yes
                  Evap I/M Program:  Yes
                       ATP Program:  Yes
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2898    0.4573    0.1560              0.0260    0.0003
0.0023    0.0630    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.088     0.185     0.245     0.200     0.190    0.025
0.111     0.506      1.39     0.193

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 2ND QUARTER - RURAL MIN COLLECTOR

* File 1, Run 1, Scenario 113.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 45.0
```

```
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2030
                          Month:  Jan.
                       Altitude:  Low
            Minimum Temperature:  54.8 (F)
            Maximum Temperature:  77.4 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:  10.1 psi
                  Weathered RVP:  10.1 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  Yes
               Evap I/M Program:  Yes
                    ATP Program:  Yes
               Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2894    0.4566    0.1557              0.0264    0.0003
0.0023    0.0640    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.088     0.186     0.246     0.201     0.192    0.025
0.112     0.512      1.39     0.194

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 2ND QUARTER - RURAL LOCAL

* File 1, Run 1, Scenario 114.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  54.8 (F)
              Maximum Temperature:  77.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  10.1 psi
                    Weathered RVP:  10.1 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2900    0.4574    0.1560              0.0259    0.0003
0.0023    0.0628    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.088     0.185     0.245     0.200     0.190    0.025
0.111     0.506      1.39     0.192

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 2ND QUARTER - URBAN INTERSTATE

* File 1, Run 1, Scenario 115.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
```

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 52.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2605    0.4110    0.1401              0.0530    0.0002
0.0021    0.1283    0.0048    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.091     0.192     0.255     0.208     0.202    0.029
0.130     0.598      1.54     0.233

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 2ND QUARTER - URBAN FREEWAY

* File 1, Run 1, Scenario 116.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
```

```
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 54.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2833    0.4471    0.1525              0.0319    0.0003
0.0023    0.0774    0.0052    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.092     0.194     0.257     0.210     0.204    0.031
0.137     0.630      1.59     0.216

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 2ND QUARTER - URBAN PRIN ARTERIAL

* File 1, Run 1, Scenario 117.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
```

```
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 28.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2921    0.4608    0.1572              0.0239    0.0003
0.0023    0.0581    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.089     0.183     0.244     0.199     0.169    0.024
0.105     0.480      1.26     0.188

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 2ND QUARTER - URBAN MIN ARTERIAL

* File 1, Run 1, Scenario 118.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 31.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2995    0.4725    0.1611              0.0172    0.0003
0.0024    0.0415    0.0055    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.086     0.180     0.239     0.195     0.172    0.023
0.104     0.471      1.30     0.179

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
* 2030 2ND QUARTER - URBAN COLLECTOR

* File 1, Run 1, Scenario 119.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 32.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3021    0.4764    0.1625              0.0149    0.0003
0.0024    0.0359    0.0055    1.0000

-----------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.086     0.179     0.238     0.194     0.174    0.023
0.103     0.470      1.31     0.177
```

```
---------------------------------------------------------------------------------------
-----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 2ND QUARTER - URBAN LOCAL

* File 1, Run 1, Scenario 120.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  54.8 (F)
             Maximum Temperature:  77.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  10.1 psi
                   Weathered RVP:  10.1 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2950    0.4655    0.1587              0.0213    0.0003
0.0024    0.0514    0.0054    1.0000

---------------------------------------------------------------------------------------
-----------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite NOX :      0.085     0.179     0.237     0.193     0.175    0.023
0.103     0.470      1.32     0.181

--------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 3RD QUARTER - RURAL INTERSTATE

* File 1, Run 1, Scenario 121.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 56.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.4 (F)
              Maximum Temperature:  84.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2172    0.3424    0.1168              0.0928    0.0002
```

```
                                        GPMIMY
0.0017    0.2249    0.0040    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.094     0.194     0.253     0.209     0.212    0.032
0.146     0.659      1.52     0.290

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 3RD QUARTER - RURAL PRIN ARTERIAL

* File 1, Run 1, Scenario 122.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 53.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
```

```
                                        GPMIMY
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2722    0.4292    0.1463              0.0423    0.0002
0.0022    0.1026    0.0050    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.093     0.191     0.250     0.206     0.208    0.030
0.134     0.604      1.43     0.222

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 3RD QUARTER - RURAL MIN ARTERIAL

* File 1, Run 1, Scenario 123.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
```

```
                                        GPMIMY
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2812    0.4432    0.1511              0.0342    0.0003
0.0022    0.0827    0.0051    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.088     0.181     0.236     0.195     0.191    0.024
0.107     0.480      1.25     0.194

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 3RD QUARTER - RURAL MAJ COLLECTOR

* File 1, Run 1, Scenario 124.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm
```

```
              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2898    0.4573    0.1560              0.0260    0.0003
0.0023    0.0630    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.089     0.183     0.240     0.198     0.195    0.025
0.111     0.498      1.27     0.191

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 3RD QUARTER - RURAL MIN COLLECTOR

* File 1, Run 1, Scenario 125.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 45.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
```

```
                                        GPMIMY
                 Absolute Humidity:   75. grains/lb
                  Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.7 psi
               Fuel Sulfur Content:   30. ppm

               Exhaust I/M Program:  Yes
                  Evap I/M Program:  Yes
                       ATP Program:  Yes
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2894    0.4566    0.1557              0.0264    0.0003
0.0023    0.0640    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.090     0.184     0.241     0.199     0.196    0.025
0.112     0.504      1.27     0.192

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 3RD QUARTER - RURAL LOCAL

* File 1, Run 1, Scenario 126.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
```

```
                                        GPMIMY
                              Month:  July
                           Altitude:  Low
                Minimum Temperature:  64.4 (F)
                Maximum Temperature:  84.4 (F)
                  Absolute Humidity:   75. grains/lb
                   Nominal Fuel RVP:   7.8 psi
                      Weathered RVP:   7.7 psi
                Fuel Sulfur Content:   30. ppm

                Exhaust I/M Program:  Yes
                   Evap I/M Program:  Yes
                        ATP Program:  Yes
                   Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2900    0.4574    0.1560              0.0259    0.0003
0.0023    0.0628    0.0053    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.089     0.183     0.240     0.198     0.195    0.025
0.111     0.498      1.27     0.190

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 3RD QUARTER - URBAN INTERSTATE

* File 1, Run 1, Scenario 127.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 52.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
```

```
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.4 (F)
              Maximum Temperature:  84.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2605    0.4110    0.1401              0.0530    0.0002
0.0021    0.1283    0.0048    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.092     0.190     0.248     0.205     0.206    0.029
0.130     0.588      1.41     0.231

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 3RD QUARTER - URBAN FREEWAY

* File 1, Run 1, Scenario 128.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 54.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
```

```
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.4 (F)
              Maximum Temperature:  84.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2833    0.4471    0.1525              0.0319    0.0003
0.0023    0.0774    0.0052    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.093     0.192     0.251     0.207     0.209    0.031
0.137     0.620      1.46     0.213

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 3RD QUARTER - URBAN PRIN ARTERIAL

* File 1, Run 1, Scenario 129.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
```

```
            The user supplied arterial average speed of 28.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2921    0.4608    0.1572              0.0239    0.0003
0.0023    0.0581    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.092     0.183     0.239     0.197     0.173    0.024
0.105     0.473      1.15     0.187

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 3RD QUARTER - URBAN MIN ARTERIAL

* File 1, Run 1, Scenario 130.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 31.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2995    0.4725    0.1611              0.0172    0.0003
0.0024    0.0415    0.0055    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.089     0.179     0.235     0.193     0.177    0.023
0.104     0.464      1.18     0.178

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 3RD QUARTER - URBAN COLLECTOR

* File 1, Run 1, Scenario 131.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
```

```
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 32.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.4 (F)
             Maximum Temperature:  84.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3021    0.4764    0.1625              0.0149    0.0003
0.0024    0.0359    0.0055    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.089     0.179     0.234     0.193     0.178    0.023
0.103     0.463      1.19     0.176

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 3RD QUARTER - URBAN LOCAL

* File 1, Run 1, Scenario 132.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
```

```
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.4 (F)
              Maximum Temperature:  84.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2950    0.4655    0.1587              0.0213    0.0003
0.0024    0.0514    0.0054    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.088     0.178     0.233     0.192     0.180    0.023
0.103     0.463      1.20     0.180

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 4TH QUARTER - RURAL INTERSTATE

* File 1, Run 1, Scenario 133.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
```

```
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 56.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2172    0.3424    0.1168              0.0928    0.0002
0.0017    0.2249    0.0040    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.096     0.213     0.277     0.229     0.211    0.032
0.146     0.659      1.78     0.301

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 4TH QUARTER - RURAL PRIN ARTERIAL

* File 1, Run 1, Scenario 134.
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 53.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2722    0.4292    0.1463              0.0423    0.0002
0.0022    0.1026    0.0050    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.094     0.210     0.273     0.226     0.207    0.030
0.134     0.604      1.68     0.235

-------------------------------------------------------------------------------------
----------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 4TH QUARTER - RURAL MIN ARTERIAL

* File 1, Run 1, Scenario 135.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2812    0.4432    0.1511              0.0342    0.0003
0.0022    0.0827    0.0051    1.0000

-----------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.087     0.197     0.257     0.212     0.190    0.024
0.107     0.480      1.47     0.205
```

```
-----------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 4TH QUARTER - RURAL MAJ COLLECTOR

* File 1, Run 1, Scenario 136.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2898    0.4573    0.1560              0.0260    0.0003
0.0023    0.0630    0.0053    1.0000
```

```
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.089     0.200     0.261     0.216     0.195    0.025
0.111     0.498      1.48     0.203

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 4TH QUARTER - RURAL MIN COLLECTOR

* File 1, Run 1, Scenario 137.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 45.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
```

```
                                        GPMIMY
   VMT Distribution:    0.2894    0.4566    0.1557              0.0264    0.0003
0.0023    0.0640    0.0053    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.089     0.201     0.262     0.217     0.196    0.025
0.112     0.504      1.49     0.204

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 4TH QUARTER - RURAL LOCAL

* File 1, Run 1, Scenario 138.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 44.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
```

```
                                        GPMIMY
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2900    0.4574    0.1560              0.0259    0.0003
0.0023    0.0628    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.089     0.200     0.261     0.216     0.195    0.025
0.111     0.498      1.48     0.203

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 4TH QUARTER - URBAN INTERSTATE

* File 1, Run 1, Scenario 139.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 52.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
```

```
                                        GPMIMY
                      ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2605    0.4110    0.1401              0.0530    0.0002
0.0021    0.1283    0.0048    1.0000

-------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.093     0.209     0.272     0.225     0.206    0.029
0.130     0.588      1.65     0.243

-------------------------------------------------------------------------------------
-----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 4TH QUARTER - URBAN FREEWAY

* File 1, Run 1, Scenario 140.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M581 Warning:
            The user supplied freeway average speed of 54.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to the freeway roadway type for
            all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
```

```
                                        GPMIMY
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2833    0.4471    0.1525              0.0319    0.0003
0.0023    0.0774    0.0052    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.095     0.211     0.275     0.227     0.209    0.031
0.137     0.620      1.71     0.227

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 4TH QUARTER - URBAN PRIN ARTERIAL

* File 1, Run 1, Scenario 141.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 28.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
```

```
                                        GPMIMY
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2921    0.4608    0.1572              0.0239    0.0003
0.0023    0.0581    0.0053    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.087     0.198     0.259     0.213     0.172    0.024
0.105     0.473      1.35     0.196

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 4TH QUARTER - URBAN MIN ARTERIAL

* File 1, Run 1, Scenario 142.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 31.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
```

```
                                        GPMIMY
                     Calendar Year:  2030
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  38.4 (F)
               Maximum Temperature:  60.2 (F)
                 Absolute Humidity:   75. grains/lb
                  Nominal Fuel RVP:  14.0 psi
                     Weathered RVP:  14.0 psi
               Fuel Sulfur Content:   30. ppm

               Exhaust I/M Program:  Yes
                  Evap I/M Program:  Yes
                       ATP Program:  Yes
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2995    0.4725    0.1611              0.0172    0.0003
0.0024    0.0415    0.0055    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.086     0.195     0.254     0.210     0.176    0.023
0.104     0.464      1.38     0.189

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 4TH QUARTER - URBAN COLLECTOR

* File 1, Run 1, Scenario 143.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 32.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
```

```
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  38.4 (F)
              Maximum Temperature:  60.2 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  14.0 psi
                    Weathered RVP:  14.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3021    0.4764    0.1625              0.0149    0.0003
0.0024    0.0359    0.0055    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.085     0.194     0.253     0.209     0.178    0.023
0.103     0.463      1.39     0.186

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2030 4TH QUARTER - URBAN LOCAL

* File 1, Run 1, Scenario 144.
* # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
```

```
          type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  38.4 (F)
             Maximum Temperature:  60.2 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  14.0 psi
                   Weathered RVP:  14.0 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
                Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.2950    0.4655    0.1587              0.0213    0.0003
0.0024    0.0514    0.0054    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite NOX :      0.085     0.193     0.252     0.208     0.179    0.023
0.103     0.463      1.41     0.190

-------------------------------------------------------------------------------------
----------------------------------
```

Appendix G: VMT and Speeds

North Carolina 1998 dvmt used to apportion NC projected 2007 dvmt (2007 county dvmt based on '90-'98 regression)

		Rural							Urban+Small Urban								County	
FIPS	COUNTY	Interstate	Principal Art.	Minor Art.	Major Coll	Minor Coll	Local	Total Rural	Interstate	Freeway	Principal Art.	Minor Art.	Collector	Local	Total Urban	Total R&U	PROJECTED 2007	
37001	ALAMANCE			175.84	303.76	117.51	160.12	757.23	1372.39	0	203.46	564.56	313.9	202.85	2657.16	3414.39	4098.797	37001
37003	ALEXANDER			325.41	37.69	113.88	86.14	563.12	0	0	0	14.7	3.93	5.39	24.02	587.14	1381.479	37003
37005	ALLEGHANY			114.18	87.53	5.13	46.32	253.16	0	0	0	0	0	0	0	253.16	1131.711	37005
37007	ANSON		428.08	56.44	136.8	37.55	139.87	798.74	0	0	0	0	0	0	0	798.74	885.793	37007
37009	ASHE			146.53	268.15	24.53	116.1	555.31	0	0	0	0	0	0	0	555.31	272.480	37009
37011	AVERY		162.44	116.97	148.66	16.53	77.74	522.34	0	0	0	0	0	0	0	522.34	1301.056	37011
37013	BEAUFORT		191.05	200.36	360.35	67.13	142.01	960.90	0	0	128.73	62.61	12.63	21.65	225.62	1186.52	534.411	37013
37015	BERTIE		239.14	161.18	178.83	56.66	116.28	752.09	0	0	0	0	0	0	0	752.09	1237.890	37015
37017	BLADEN			386.54	450.5	91.43	152.49	1080.96	0	0	0	0	0	0	0	1080.96	751.426	37017
37019	BRUNSWICK		726.12	164.12	791.13	49.66	340.43	2071.46	0	209.21	15.8	16.39	15.48	4.16	261.04	2332.50	3127.784	37019
37021	BUNCOMBE	196.69	123.53	139.6	311.21	145.64	132.6	1049.27	2108	340.15	638.2	1050.89	206.25	328.53	4672.02	5721.29	7612.072	37021
37023	BURKE	493.25	0.34	465.06	172.78	163.8	152.9	1448.13	454.62	0	208.76	248.26	29.39	66.8	1007.83	2455.96	2740.354	37023
37025	CABARRUS	56.03	242.59	196.11	196.56	231.1	163.07	1085.46	850.77	0	621.09	1021.44	230.89	185.55	2909.74	3995.20	5426.566	37025
37027	CALDWELL		416.07	234.58	197.3	66.29	293.47	1207.71	0	0	276.37	145.17	54.88	69.95	546.37	1754.08	1505.744	37027
37029	CAMDEN		83.26	69.35	79	11.59	34.37	277.57	0	0	0	4.8	0	0	4.8	282.37	-492.233	37029
37031	CARTERET		606.83	287.52	343.16	8.86	119.88	1366.25	0	0	191.68	33.32	19.03	25.55	269.58	1635.83	2377.556	37031
37033	CASWELL		160.65	115.16	124.88	56.99	97.59	555.27	0	0	0	0	0	0	0	555.27	1639.960	37033
37035	CATAWBA	217.1	290.06	270.61	247.61	357.76	245.25	1628.39	629.25	114.39	695.49	602.2	111.38	462.77	2615.48	4243.87	5953.894	37035
37037	CHATHAM		728.83	116.9	232.6	155.96	254.97	1489.26	0	0	0	0	0	0	0	1489.26	1946.400	37037
37039	CHEROKEE		393.54	41.07	284.96	22.57	71.32	813.46	0	0	0	0	0	0	0	813.46	1577.503	37039
37041	CHOWAN		42.8	66.96	36.11	44.1	26.86	216.83	0	21.27	0	43.23	20.85	10.11	95.46	312.29	702.817	37041
37043	CLAY			144.2	35.68	12.12	25.29	217.29	0	0	0	0	0	0	0	217.29	557.638	37043
37045	CLEVELAND	239.5	318.73	327.83	383.83	91.22	270.61	1631.72	30.65	206.88	274.17	168.04	3.66	88.73	772.13	2403.85	3117.344	37045
37047	COLUMBUS		440.95	235.83	352.47	132.14	222.36	1383.75	0	0	93.22	66.07	18.31	17.19	194.79	1578.54	2567.892	37047
37049	CRAVEN		614.62		388.14	57.99	201.55	1262.30	0	118.99	472.97	114.64	56.56	74.81	837.97	2100.27	3887.989	37049
37051	CUMBERLAND	1095.13	177.73	244.27	244.74	123.43	324.13	2209.43	59.06	405.61	1774.22	1339.9	205.02	1342.08	5125.89	7335.32	9449.426	37051
37053	CURRITUCK			576.45	15.5	55.28	26.21	673.44	0	0	0	0	0	0	0	673.44	581.724	37053
37055	DARE		168.2	468.1	639.35	23.36	95.87	1394.88	0	0	0	0	0	0	0	1394.88	1446.379	37055
37057	DAVIDSON	609.11	329.75	353.33	514.43	213.15	201.23	2221.00	443.79	255.49	407.88	386.79	58.07	163.4	1715.42	3936.42	4472.527	37057
37059	DAVIE	555.26		319.45	151.5	89.78	72.68	1188.67	0	0	0	0	0	0	0	1188.67	613.229	37059
37061	DUPLIN	441.71	250.85	0.72	622.2	155.7	282.04	1753.22	0	0	0	0	0	0	0	1753.22	2716.241	37061
37063	DURHAM	168.28		181.21	103.28	33.11	73.6	559.48	1569.75	812.86	725.79	1173.35	347.38	432.1	5061.23	5620.71	8031.499	37063
37065	EDGECOMBE		338.39	138.77	392.63	163.39	113.82	1147.00	0	77.46	93.01	115.54	19.85	71.3	377.16	1524.16	1514.158	37065
37067	FORSYTH	354.14	541.59	145.35	444.8	111.94	125.21	1723.03	952.36	1900.01	253.3	1102.27	1014.29	639	5861.23	7584.26	10218.017	37067
37069	FRANKLIN		213.93	368.46	303.26	141.25	92.81	1119.71	0	0	0	0	0	0	0	1119.71	1725.000	37069
37071	GASTON	85.14	66.8	193.73	440	178.8	130.64	1095.11	1260.26	53.83	1144.8	649.04	118.25	245.41	3471.59	4566.70	5658.891	37071
37073	GATES		160.15	45.42	56.05	28.75	43.75	334.12	0	0	0	0	0	0	0	334.12	-496.581	37073
37075	GRAHAM			27.64	137.04	3.85	26.79	195.32	0	0	0	0	0	0	0	195.32	358.018	37075
37077	GRANVILLE	612.42	31.36	60.04	301.58	237.13	88.49	1331.02	106.95	0	70.52	61.51	18.32	17.5	274.8	1605.82	2867.633	37077
37079	GREENE		45.09	181.57	207.52	42.65	74.16	550.99	0	0	0	0	0	0	0	550.99	712.564	37079
37081	GUILFORD	655.82	520.57	207.36	496.72	156.65	236.04	2273.16	2426.13	1054.25	1583.54	1943.82	425.5	705.78	8139.02	10412.18	12732.557	37081
37083	HALIFAX	698.35	101.09	195.09	232.64	45.64	169.69	1442.50	120.61	0	65.11	111.18	23.3	64.74	384.94	1827.44	1243.536	37083
37085	HARNETT	298.53	453.92	191.01	622.14	142.56	206.44	1914.60	51.13	0	83.69	62.38	36.43	34.34	267.97	2182.57	2583.321	37085
37087	HAYWOOD	1026.12	243.22	258.01	393.91	40.39	100.1	2061.75	0	88.21	41.58	36.65	6.29	35.82	208.55	2270.30	2656.278	37087
37089	HENDERSON	384.08	114.64	326.17	235.83	36.11	155.31	1252.14	321.78	0	164.18	234.06	73.17	86.73	879.92	2132.06	2190.572	37089
37091	HERTFORD		70.59	186.57	154.54	39.32	92.82	543.84	0	0	0	0	0	0	0	543.84	-38.575	37091
37093	HOKE		186.26	176.44	87.34	105.93	97.26	653.23	0	0	0	0	0	0	0	653.23	745.530	37093
37095	HYDE			91.73	34.44	22.85	16.07	165.09	0	0	0	0	0	0	0	165.09	987.064	37095
37097	IREDELL	1898.14	84.58	164.64	568.55	206.48	250.04	3172.43	530.14	0	192.48	347.04	65.57	129.28	1264.51	4436.94	5813.449	37097
37099	JACKSON		518.31	512.94	84.72	52.21	64.82	1233.00	0	0	0	0	0	0	0	1233.00	1110.822	37099
37101	JOHNSTON	1664.69	683.1	215.82	717.48	209.55	371.1	3861.74	360.95	0	164.56	40.04	8.31	26.86	600.72	4462.46	6741.620	37101
37103	JONES		249.82		150.48	41.08	41.96	483.34	0	0	0	0	0	0	0	483.34	-151.009	37103
37105	LEE		339.02	38.19	226.68	66.49	78.74	749.12	0	96.49	229.42	220.14	57.13	70.97	674.15	1423.27	2885.808	37105
37107	LENOIR		165.31	190.7	178.05	180.36	118.16	832.58	0	0	379.91	107.19	156.96	76.44	720.5	1553.08	2361.477	37107
37109	LINCOLN		203.43	420.53	155.59	146.29	136.11	1061.95	0	0	111.63	52.92	30.76	32.53	227.84	1289.79	2456.640	37109

2007												
Rural						Urban						
Interstate	Principal Art.	Minor Art.	Major Coll	Minor Coll	Local	Interstate	Freeway	Principal Art.	Minor Art.	Collector	Local	
110	130	150	170	190	210	230	250	270	290	310	330	
0.0	0.0	211086.8	364648.1	141064.6	192215.7	1647482.7	0.0	244243.1	677724.9	376820.6	243510.9	37001
0.0	0.0	765655.6	88680.6	267947.7	202678.4	0.0	0.0	0.0	34587.6	9246.9	12682.1	37003
0.0	0.0	510423.3	391288.8	22932.8	207066.1	0.0	0.0	0.0	0.0	0.0	0.0	37005
0.0	474735.4	62591.3	151709.5	41642.5	155114.1	0.0	0.0	0.0	0.0	0.0	0.0	37007
0.0	0.0	71899.6	131576.3	12036.4	56968.1	0.0	0.0	0.0	0.0	0.0	0.0	37009
0.0	404609.1	291351.5	370285.6	41173.3	193636.5	0.0	0.0	0.0	0.0	0.0	0.0	37011
0.0	86049.3	90242.5	162302.3	30235.5	63961.6	0.0	0.0	57980.2	28199.7	5688.6	9751.2	37013
0.0	393608.4	265291.5	294342.2	93258.6	191389.1	0.0	0.0	0.0	0.0	0.0	0.0	37015
0.0	0.0	268702.2	313163.8	63557.3	106003.0	0.0	0.0	0.0	0.0	0.0	0.0	37017
0.0	973696.3	220078.0	1060871.9	66592.0	456502.3	0.0	280541.8	21187.1	21978.3	20758.0	5578.4	37019
261692.4	164354.4	185735.2	414059.2	193771.4	176421.9	2804655.4	452563.4	849113.4	1398189.9	274411.9	437103.2	37021
550367.1	379.4	518912.7	192787.5	182767.6	170605.4	507263.8	0.0	232933.9	277007.9	32793.3	74535.3	37023
76103.9	329503.0	266370.6	266981.8	313896.5	221493.3	1155576.5	0.0	843608.7	1387392.7	313611.3	252027.2	37025
0.0	357164.3	201369.0	169367.0	56904.9	251921.6	0.0	0.0	237242.6	124617.4	47110.3	60046.7	37027
0.0	-145140.5	-120892.3	-137714.3	-20203.9	-59914.5	0.0	0.0	0.0	-8367.5	0.0	0.0	37029
0.0	881981.9	417888.8	498757.4	12877.3	174236.6	0.0	0.0	278592.5	48428.1	27658.7	37135.0	37031
0.0	474471.1	340118.8	368826.3	168316.9	288226.8	0.0	0.0	0.0	0.0	0.0	0.0	37033
304578.2	406936.7	379649.5	347381.9	501915.7	344071.0	882799.9	160482.3	975730.6	844850.4	156259.4	649238.5	37035
0.0	952550.1	152783.4	303998.4	203833.1	333235.0	0.0	0.0	0.0	0.0	0.0	0.0	37037
0.0	763172.7	79645.0	552608.9	43768.9	138307.4	0.0	0.0	0.0	0.0	0.0	0.0	37039
0.0	96322.5	150695.2	81266.5	99248.2	60449.1	0.0	47868.7	0.0	97290.2	46923.5	22752.8	37041
0.0	0.0	370064.8	91566.7	31103.9	64902.5	0.0	0.0	0.0	0.0	0.0	0.0	37043
310586.7	413333.2	425134.2	497755.8	118295.3	350930.6	39747.3	268284.7	355547.2	217916.5	4746.3	115066.2	37045
0.0	717316.0	383636.8	573381.0	214958.9	361724.4	0.0	0.0	151645.8	107479.5	29785.8	27963.9	37047
0.0	1137775.5	0.0	718519.1	107350.2	373106.4	0.0	220272.5	875555.1	212219.9	104703.0	138487.2	37049
1410756.5	228953.4	314670.9	315276.3	159003.7	417547.2	76081.6	522510.5	2285566.4	1726071.4	264108.6	1728879.7	37051
0.0	0.0	497943.4	13389.1	47751.4	22640.5	0.0	0.0	0.0	0.0	0.0	0.0	37053
0.0	174410.0	485382.4	662954.9	24222.5	99409.5	0.0	0.0	0.0	0.0	0.0	0.0	37055
692065.7	374659.2	401450.6	584491.1	242179.2	228635.8	504230.5	290285.6	463429.8	439467.6	65978.6	185653.7	37057
286456.1	0.0	164802.8	78158.2	46317.1	37495.3	0.0	0.0	0.0	0.0	0.0	0.0	37059
684335.7	388638.7	1115.5	963966.6	241224.0	436961.0	0.0	0.0	0.0	0.0	0.0	0.0	37061
240457.3	0.0	258933.1	147578.0	47311.3	105167.9	2243034.2	1161505.2	1037089.9	1676613.6	496375.4	617432.8	37063
0.0	336169.5	137859.4	390053.5	162317.8	113073.1	0.0	76951.7	92399.7	114781.8	19719.7	70832.1	37065
477120.9	729665.9	195825.1	599264.0	150813.0	168691.2	1283082.5	2559819.3	341262.5	1485051.1	1366518.7	860903.1	37067
0.0	329575.8	567641.2	467195.6	217606.6	142981.0	0.0	0.0	0.0	0.0	0.0	0.0	37069
105502.4	82776.2	240063.3	545232.2	221562.6	161884.4	1561669.1	66704.2	1418595.2	804267.1	146531.2	304103.3	37071
0.0	-238020.7	-67504.8	-83303.5	-42729.3	-65022.8	0.0	0.0	0.0	0.0	0.0	0.0	37073
0.0	0.0	50663.6	251191.7	7057.0	49105.6	0.0	0.0	0.0	0.0	0.0	0.0	37075
1093644.2	56001.9	107217.9	538554.0	423460.8	158023.2	190988.6	0.0	125932.8	109843.0	32715.4	31251.1	37077
0.0	58312.4	234814.3	268373.9	55156.8	95907.0	0.0	0.0	0.0	0.0	0.0	0.0	37079
801970.9	636580.1	253570.6	607415.1	191559.8	288642.0	2966798.3	1289191.9	1936435.3	2377004.4	520323.6	863064.6	37081
475213.0	68789.7	132754.8	158306.8	31057.1	115470.6	82072.7	0.0	44306.0	75655.7	15855.2	44054.3	37083
353344.3	537266.1	226082.1	736373.7	168736.0	244345.3	60518.2	0.0	99056.7	73833.8	43119.1	40645.3	37085
1200572.6	284570.3	301874.8	460879.4	47256.8	117118.2	0.0	103206.7	48649.1	42880.9	7359.4	41909.8	37087
394620.7	117786.2	335121.4	242302.1	37101.0	159572.3	330610.9	0.0	168685.8	240483.5	75178.1	89110.2	37089
0.0	-5007.0	-13233.5	-10961.6	-2789.0	-6583.7	0.0	0.0	0.0	0.0	0.0	0.0	37091
0.0	212578.2	201370.7	99681.0	120897.7	111002.7	0.0	0.0	0.0	0.0	0.0	0.0	37093
0.0	0.0	548448.8	205914.9	136618.9	96081.7	0.0	0.0	0.0	0.0	0.0	0.0	37095
2487015.7	110820.0	215717.6	744936.0	270538.0	327612.0	694609.7	0.0	252194.7	454705.1	85912.3	169387.6	37097
0.0	466950.8	462112.9	76325.1	47036.5	58397.0	0.0	0.0	0.0	0.0	0.0	0.0	37099
2514915.0	1031987.0	326048.1	1083926.3	316575.7	560635.9	545301.9	0.0	248607.5	60490.1	12554.3	40578.5	37101
0.0	-78050.8	0.0	-47014.2	-12834.6	-13109.5	0.0	0.0	0.0	0.0	0.0	0.0	37103
0.0	687393.6	77433.7	459614.2	134814.5	159652.5	0.0	195642.2	465169.8	446353.7	115836.2	143898.1	37105
0.0	251355.9	289961.7	270727.2	274239.6	179663.7	0.0	0.0	577657.8	162983.7	238659.6	116228.0	37107
0.0	387469.5	800976.1	296349.5	278636.0	259246.3	0.0	0.0	212619.7	100795.8	58588.0	61959.3	37109

North Carolina 1998 dvmt used to apportion NC projected 2007 dvmt (2007 county dvmt based on '90-'98 regression)

		Rural							Urban+Small Urban								County	
FIPS	COUNTY	Interstate	Principal Art.	Minor Art.	Major Coll	Minor Coll	Local	Total Rural	Interstate	Freeway	Principal Art.	Minor Art.	Collector	Local	Total Urban	Total R&U	PROJECTED 2007	
37113	MACON		303.83	185.24	186.55	33.22	107.51	816.35	0	0	0	0	0	0	0	816.35	1304.542	37113
37115	MADISON		162.33	115.76	106.47	34.87	49.05	468.48	0	0	0	0	0	0	0	468.48	479.945	37115
37111	MCDOWELL	664.43	263.43	42.07	408.94	70.82	102.24	1551.93	0	0	0	0	0	0	0	1551.93	1439.044	37111
37117	MARTIN		310.32	56.88	182.36	54.38	135.29	739.23	0	0	78.54	27.91	3.73	14.24	124.42	863.65	898.628	37117
37119	MECKLENBURG	1147.69	148.03	546.03	321.39	55.5	367.04	2585.68	4081.9	2294.97	3221.46	2102.9	503.32	1146.53	13351.08	15936.76	23778.081	37119
37121	MITCHELL		81.49	9.72	180.07	15.84	60.77	347.89	0	0	0	0	0	0	0	347.89	744.800	37121
37123	MONTGOMERY	62.25	222.97	223.95	292.73	21.94	163.55	987.39	0	0	0	0	0	0	0	987.39	1461.405	37123
37125	MOORE		255.77	347.32	410.2	132.71	301.82	1447.82	0	52.35	128.56	225.13	7.65	85.01	498.7	1946.52	2836.581	37125
37127	NASH	905.44	579.48	94.89	524.93	313.07	140.48	2558.29	0	167.09	320.24	250.17	70.04	73.17	880.71	3439.00	2997.340	37127
37129	NEW HANOVER	102.51	106.08	224.74	115.04	34.81	57.89	641.07	25.33	22.82	1332.04	447.86	187.19	216.62	2231.86	2872.93	4540.187	37129
37131	NORTHAMPTON	267.94	118.73	130.97	191.44	45.9	94.99	849.97	0	0	0	0	0	0	0	849.97	316.674	37131
37133	ONSLOW		615.9	21.33	429.2	106.36	176.68	1349.47	0	0	738.24	392.14	18.92	117.37	1266.67	2616.14	4894.955	37133
37135	ORANGE	1290.8		187.1	435.57	153.99	156.97	2224.43	94.86	57.21	416.92	302.86	38.37	99.26	1009.48	3233.91	5188.615	37135
37137	PAMLICO				235.64	63.1	61.03	359.77	0	0	0	0	0	0	0	359.77	60.566	37137
37139	PASQUOTANK		172.77		11.64	75.17	53.71	313.29	0	0	143.66	129.34	32.95	28.99	334.94	648.23	495.493	37139
37141	PENDER	458.35	245.17	118.7	556.62	70.42	161.35	1610.61	0	0	0	0	0	0	0	1610.61	2037.313	37141
37143	PERQUIMANS		173.99		34.17	47.25	67.41	322.82	0	0	0	0	0	0	0	322.82	432.943	37143
37145	PERSON		54.3	140.22	116.92	113.58	77.96	502.98	0	0	128.46	25.6	29.8	19.19	203.05	706.03	498.492	37145
37147	PITT		404	352.44	598.85	223.15	195.49	1773.93	0	0	557.48	445.29	31.45	98.54	1132.76	2906.69	3505.185	37147
37149	POLK	342.4	144.89		148.99	40.41	63.62	740.31	0	0	0	0	0	0	0	740.31	956.429	37149
37151	RANDOLPH	174.48	681.81	101.3	519.34	163.25	269.42	1909.60	349.68	361.96	400.18	225.29	87.32	117.22	1541.65	3451.25	3942.919	37151
37153	RICHMOND		413.47	48.91	70.86	42.81	148.73	724.78	0	38.43	263.62	113.6	55.86	70.88	542.39	1267.17	1285.377	37153
37155	ROBESON	1096	327.14	97.84	988.05	299.19	401.4	3209.62	432.87	0	328.06	84.48	8.65	102.25	956.31	4165.93	3762.785	37155
37157	ROCKINGHAM		559.92	266.64	544.56	204.47	184.12	1759.71	0	66.83	202.22	336.18	18.12	103.61	726.96	2486.67	1815.172	37157
37159	ROWAN	1015.24	283.57	129.87	421.59	193.81	281.05	2325.13	245.8	0	221.03	355.52	125.62	159.33	1107.3	3432.43	4326.448	37159
37161	RUTHERFORD		280.57	328.2	177.1	148.8	358.12	1292.79	0	0	55.97	70.55	24.05	48.95	199.52	1492.31	2407.087	37161
37163	SAMPSON	353.17	153.88	438.57	229.72	208.69	242.06	1626.09	0	20.47	87.69	21.29	48.46	36.03	213.94	1840.03	1866.387	37163
37165	SCOTLAND		253.6	161.51	101.61	82.05	112.94	711.71	0	34.24	197.53	54.59	32.54	49.56	368.46	1080.17	1470.174	37165
37167	STANLY		144.54	190.86	281.53	85.76	217.61	920.30	0	0	251.21	81.58	59.32	53.83	445.94	1366.24	1750.407	37167
37169	STOKES		206.31	85.28	307.29	113.32	202.62	914.82	0	0	0	0	0	0	0	914.82	2024.315	37169
37171	SURRY	513.06	385.2	312.59	403.88	156.92	238.58	2010.23	0	0	179.67	157.73	34	103.51	474.91	2485.14		37171
37173	SWAIN		174.28	178.29	94.88	9.23	60.68	517.36	0	0	0	0	0	0	0	517.36	3226.188	37173
37175	TRANSYLVANIA			423.97	76.87	29.6	23.75	554.19	0	0	160.82	30.23	8.77	21.42	221.24	775.43	964.933	37175
37177	TYRRELL		78.22		21.87	10.31	20.2	130.60	0	0	0	0	0	0	0	130.60	1832.970	37177
37179	UNION		390.85	84.14	801.88	198.28	448.24	1923.39	0	0	594.86	282.74	41.28	114.31	1033.19	2956.58	-809.043	37179
37181	VANCE	249.67	101.27	34.72	183.72	129.13	50.89	749.40	118.52	29.24	77.3	89.11	43.44	39.82	397.43	1146.83	4316.243	37181
37183	WAKE	151.85	1024.48	821.14	592.05	423.14	318.96	3331.62	3452.41	584.02	3227.76	2393.06	806.85	832.22	11296.32	14627.94	2210.708	37183
37185	WARREN	223.79	87.46		147.48	23.38	90.87	572.98	0	0	0	0	0	0	0	572.98	20364.746	37185
37187	WASHINGTON		204.85		117.49	29.44	43.42	395.20	0	0	0	0	0	0	0	395.20	546.561	37187
37189	WATAUGA		490.38	91.94	49.98	27.23	161.54	821.07	0	0	157.48	17.85	16.03	28.91	220.27	1041.34	72.252	37189
37191	WAYNE		219.59	182.32	372.88	167.71	216.87	1159.37	0	216.73	434.04	542.78	116.98	122.58	1433.11	2592.48	740.040	37191
37193	WILKES		424.79	223.83	522.92	264.61	275.81	1711.96	0	0	0	4.18	0	0.02	4.2	1716.16	4145.839	37193
37195	WILSON	462.13	302.55	154.76	206.83	105.38	137.7	1369.35	67.42	24.82	546.15	244.61	25.61	90.17	998.78	2368.13	2716.219	37195
37197	YADKIN	328.85	324.83	91	192.42	185.93	133.2	1256.23	0	0	0	0	0	0	0	1256.23	2617.351	37197
37199	YANCEY		199.41	21.67	89.09	36.51	53.38	400.06	0	0	0	0	0	0	0	400.06	2535.135	37199
																	279030.5741	

NC VMT_F

2007												
Rural						Urban						
Interstate	Principal Art.	Minor Art.	Major Coll	Minor Coll	Local	Interstate	Freeway	Principal Art.	Minor Art.	Collector	Local	
110	130	150	170	190	210	230	250	270	290	310	330	
0.0	485525.9	296016.9	298110.3	53086.2	171802.9	0.0	0.0	0.0	0.0	0.0	0.0	37113
0.0	166302.8	118593.1	109075.7	35723.4	50250.4	0.0	0.0	0.0	0.0	0.0	0.0	37115
616100.1	244268.4	39009.9	379194.2	65668.6	94803.2	0.0	0.0	0.0	0.0	0.0	0.0	37111
0.0	322887.9	59183.6	189745.5	56582.4	140769.2	0.0	0.0	81720.9	29040.3	3881.1	14816.7	37117
1712384.8	220864.8	814691.7	479522.7	82807.5	547633.7	6090306.2	3424157.9	4806506.3	3137584.2	750967.2	1710654.1	37119
0.0	174462.4	20809.6	385513.0	33912.0	130102.9	0.0	0.0	0.0	0.0	0.0	0.0	37121
92134.3	330010.9	331461.4	433260.5	32472.7	242065.2	0.0	0.0	0.0	0.0	0.0	0.0	37123
0.0	372722.8	506134.7	597767.0	193392.6	439829.5	0.0	76287.4	187345.0	328072.4	11148.0	123881.5	37125
789157.3	505059.3	82703.6	457514.9	272863.4	122438.6	0.0	145631.2	279112.6	218041.5	61045.0	63773.0	37127
162000.0	167641.8	355164.1	181801.6	55011.4	91485.5	40029.8	36063.2	2105067.4	707768.2	295822.6	342331.8	37129
99826.6	44235.3	48795.6	71325.0	17101.0	35390.5	0.0	0.0	0.0	0.0	0.0	0.0	37131
0.0	1152385.8	39909.7	803058.9	199005.9	330578.9	0.0	0.0	1381291.3	733717.4	35400.5	219606.3	37133
2071011.4	0.0	300190.8	698846.0	247067.7	251849.0	152197.2	91790.0	668923.2	485920.7	61562.4	159256.7	37135
0.0	0.0	0.0	39669.3	10622.7	10274.2	0.0	0.0	0.0	0.0	0.0	0.0	37137
0.0	132061.6	0.0	8897.4	57458.3	41054.8	0.0	0.0	109810.6	98864.7	25186.3	22159.3	37139
579781.8	310123.5	150147.5	704086.7	89076.5	204096.9	0.0	0.0	0.0	0.0	0.0	0.0	37141
0.0	233342.9	0.0	45826.4	63368.3	90405.5	0.0	0.0	0.0	0.0	0.0	0.0	37143
0.0	38338.5	99002.2	82551.3	80193.1	55043.6	0.0	0.0	90699.1	18074.9	21040.3	13549.1	37145
0.0	487184.7	425008.4	722154.9	269097.2	235741.9	0.0	0.0	672266.7	536976.4	37925.6	118829.7	37147
442357.1	187187.9	0.0	192484.8	52206.9	82192.6	0.0	0.0	0.0	0.0	0.0	0.0	37149
199336.6	778941.5	115731.3	593325.8	186506.8	307801.9	399495.9	413525.3	457190.2	257385.1	99759.7	133919.3	37151
0.0	419410.9	49612.8	71878.1	43425.1	150867.0	0.0	38982.2	267407.8	115232.3	56662.6	71898.4	37153
989938.1	295482.1	88371.8	892434.6	270236.8	362555.8	390980.4	0.0	296313.0	76304.7	7812.9	92355.1	37155
0.0	408719.7	194636.8	397507.5	149255.1	134400.4	0.0	48783.3	147612.7	245398.3	13226.9	75631.3	37157
1279671.5	357429.2	163696.2	531398.2	244290.1	354252.9	309821.6	0.0	278599.9	448119.5	158339.2	200829.4	37159
0.0	452557.6	529384.5	285661.2	240013.5	577645.3	0.0	0.0	90279.3	113796.7	38792.5	78956.0	37161
358228.9	156084.2	444852.2	233010.5	211679.3	245527.3	0.0	20763.2	88946.1	21595.0	49154.1	36546.1	37163
0.0	345164.3	219824.5	138297.1	111674.8	153717.9	0.0	46602.6	268849.8	74300.2	44288.8	67454.0	37165
0.0	185182.6	244527.1	360692.3	109874.5	278798.9	0.0	0.0	321846.7	104519.1	75999.9	68966.2	37167
0.0	456523.1	188707.7	679971.8	250754.7	448357.8	0.0	0.0	0.0	0.0	0.0	0.0	37169
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37171
0.0	1086786.9	1111792.7	591659.1	57557.1	378392.4	0.0	0.0	0.0	0.0	0.0	0.0	37173
0.0	0.0	527581.6	95655.8	36833.8	29554.1	0.0	0.0	200121.9	37617.7	10913.3	26654.7	37175
0.0	1097817.3	0.0	306945.3	144700.8	283506.9	0.0	0.0	0.0	0.0	0.0	0.0	37177
0.0	-106952.8	-23024.2	-219427.6	-54257.6	-122657.1	0.0	0.0	-162778.4	-77369.4	-11295.9	-31280.0	37179
939665.3	381142.7	130673.2	691454.0	485997.4	191531.1	446065.3	110048.5	290928.5	335377.0	163492.1	149867.7	37181
22949.0	154828.8	124098.2	89476.0	63948.8	48204.1	521759.7	88262.4	487808.6	361661.1	121938.5	125772.7	37183
7953901.6	3108486.7	0.0	5241706.1	830967.5	3229684.3	0.0	0.0	0.0	0.0	0.0	0.0	37185
0.0	283307.1	0.0	162488.4	40715.5	60049.8	0.0	0.0	0.0	0.0	0.0	0.0	37187
0.0	34024.4	6379.1	3467.8	1889.3	11208.2	0.0	0.0	10926.5	1238.5	1112.2	2005.9	37189
0.0	62683.4	52044.4	106441.0	47873.9	61906.9	0.0	61866.9	123899.5	154940.0	33392.7	34991.2	37191
0.0	1026192.6	540720.6	1263251.6	639235.5	666292.0	0.0	0.0	0.0	10097.9	0.0	48.3	37193
530058.0	347021.5	177508.0	237231.7	120869.7	157940.4	77330.0	28468.3	626428.1	280565.0	29374.4	103424.0	37195
685157.8	676782.1	189598.2	400906.4	387384.5	277521.7	0.0	0.0	0.0	0.0	0.0	0.0	37197
0.0	1263638.6	137320.3	564553.2	231359.7	338263.0	0.0	0.0	0.0	0.0	0.0	0.0	37199
34247096	34960442.7	23158562	39996125	13871638.81	21898841	26004740	12327313	29118432.02	24715927	7213103.8	11522999	279,035,221

Functional Classification	2002	2010	2020	2030
	Speed	Speed	Speed	Speed
Urban Interstate	51	52	52	52
Freeway & Expressway	52	53	54	54
Urban Other Principle Arterial	29	29	29	28
Urban Minor Arterial	31	32	31	31
Urban Collector	33	33	32	32
Urban Local	34	33	33	33
Rural Interstate	55	55	56	56
Rural Other Principal Arterial	53	53	54	53
Rural Minor Arterial	41	41	41	41
Rural Major Collector	43	43	44	44
Rural Minor Collector	44	44	45	45
Rural Local	44	44	44	44

Functional Classification	2002	2010	2020	2030
	Speed	Speed	Speed	Speed
Urban Interstate	60	60	60	60
Freeway & Expressway	55	55	55	55
Urban Other Principle Arterial	30	29	29	28
Urban Minor Arterial	31	34	34	34
Urban Collector	32	32	31	32
Urban Local	33	31	30	31
[redacted]	0	0	0	0
Rural Interstate	0	0	0	0
Rural Other Principal Arterial	0	0	0	0
Rural Minor Arterial	40	39	39	38
Rural Major Collector	43	43	43	43
Rural Minor Collector	42	42	42	42
Rural Local	44	45	45	45

Functional Classification	2002	2010	2020	2030
	Speed	Speed	Speed	Speed
Urban Interstate	62	62	62	62
Freeway & Expressway	56	56	56	56
Urban Other Principle Arterial	27	28	28	27
Urban Minor Arterial	31	32	31	31
Urban Collector	31	31	31	31
Urban Local	31	31	31	31
Rural Interstate	65	65	65	64
Rural Other Principal Arterial	44	44	44	43
Rural Minor Arterial	43	43	43	43
Rural Major Collector	43	43	43	43
Rural Minor Collector	42	42	42	42
Rural Local	42	42	42	42

Appendix H: Emissions Analysis Results by County

VMT Adjustment Factors	**Non-Local**	**Local**		
	1.0000	1.0000		
Year	**2002**	**2010**	**2020**	**2030**
	Model VMT			
Urban Functional Classification				
Interstate	2,656,537.50	2,405,546	2,375,703	2,764,851
Freeway	1,837,664.06	2,490,824	4,208,758	4,947,671
Other P-A	1,690,291.56	1,800,725	1,813,763	2,188,761
Minor Arterial	3,202,345.00	3,704,140	3,731,957	4,714,295
Collector	730,618.13	912,203	921,493	1,223,669
Local	1,330,851.45	1,550,807	1,666,379	2,168,080
Total Urban	11,448,308	12,864,246	14,718,052	18,007,327
Rural Functional Classification				
Interstate	952,115.31	1,079,229	1,089,681	1,138,965
Other P-A	573,060.94	831,623	1,100,060	1,268,454
Minor Arterial	199,551.88	190,390	174,848	217,701
Major Collector	562,662.50	675,505	728,983	928,998
Minor Collector	435,173.13	577,204	494,339	820,188
Local	551,576.67	751,374	714,698	1,031,431
Total Rural	3,274,140	4,105,324	4,302,608	5,405,737
	2004	**2014**	**2020**	**2030**
Grand Totals	**14,722,448**	**16,969,570**	**19,020,661**	**23,413,064**
	Normalized VMT			
Urban Functional Classification				
Interstate	2,656,538	2,405,546	2,375,703	2,764,851
Freeway	1,837,664	2,490,824	4,208,758	4,947,671
Other P-A	1,690,292	1,800,725	1,813,763	2,188,761
Minor Arterial	3,202,345	3,704,140	3,731,957	4,714,295
Collector	730,618	912,203	921,493	1,223,669
Local	1,330,851	1,550,807	1,666,379	2,168,080
Urban Total	11,448,308	12,864,245	14,718,053	18,007,327
Rural Functional Classification				
Interstate	952,115	1,079,229	1,089,681	1,138,965
Other P-A	573,061	831,623	1,100,060	1,268,454
Minor Arterial	199,552	190,390	174,848	217,701
Major Collector	562,663	675,505	728,983	928,998
Minor Collector	435,173	577,204	494,339	820,188
Local	551,577	751,374	714,698	1,031,431
Rural Total	3,274,141	4,105,325	4,302,609	5,405,737
	2002	**2010**	**2020**	**2030**
Grand Totals	**14,722,449**	**16,969,570**	**19,020,662**	**23,413,064**

Assumed Speed				
Year	2002	2010	2020	2030
Urban Functional Classification				
Interstate	51	52	52	52
Freeway	52	53	54	54
Other P-A	29	29	29	28
Minor Arterial	31	32	31	31
Collector	33	33	32	32
Local	34	33	33	33
Rural Functional Classification				
Interstate	55	55	56	56
Other P-A	53	53	54	53
Minor Arterial	41	41	41	41
Major Collector	43	43	44	44
Minor Collector	44	44	45	45
Local	44	44	44	44

Percent of Vehicles Subject to I&M in Each Analysis Year			
2002	2010	2020	2030
0.76	0.94	0.94	0.94

Year of Analysis = 2002

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		76.00%	24.00%			
Urban Functional Classification	**Speed**					
Interstate	51	3.687	3.701	3.69	2,656,538	9,802.63
Freeway	52	2.774	2.788	2.78	1,837,664	5,108.71
Other P-A	29	2.022	2.038	2.03	1,690,292	3,431.29
Minor Arterial	31	1.811	1.827	1.81	3,202,345	5,796.24
Collector	33	1.735	1.750	1.74	730,618	1,271.28
Local	34	1.917	1.933	1.92	1,330,851	2,555.23
				Total Urban	11,448,308	27,965.38
Rural Functional Classification	**Speed**					
Interstate	55	5.686	5.697	5.69	952,115	5,417.53
Other P-A	53	2.934	2.948	2.94	573,061	1,684.80
Minor Arterial	41	2.352	2.367	2.36	199,552	470.94
Major Collector	43	2.133	2.148	2.14	562,663	1,204.10
Minor Collector	44	2.156	2.172	2.16	435,173	939.97
Local	44	2.140	2.155	2.14	551,577	1,180.37
				Total Rural	3,274,141	10,897.72

Total Normalized VMT for this Analysis Year=	14,722,449	Total NO_X Emissions (Kilograms per Day)	38,863.00

Year of Analysis = 2010

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		94.00%	6.00%			
Urban Functional Classification	**Speed**					
Interstate	52	1.473	1.565	1.48	2,405,546	3,560.21
Freeway	53	1.163	1.264	1.17	2,490,824	2,914.26
Other P-A	29	0.897	1.001	0.90	1,800,725	1,620.65
Minor Arterial	32	0.812	0.917	0.82	3,704,140	3,037.39
Collector	33	0.783	0.889	0.79	912,203	720.64
Local	33	0.855	0.958	0.86	1,550,807	1,333.69
				Total Urban	12,864,245	13,186.85
Rural Functional Classification						
Interstate	55	2.202	2.279	2.21	1,079,229	2,385.10
Other P-A	53	1.286	1.383	1.29	831,623	1,072.79
Minor Arterial	41	1.027	1.126	1.03	190,390	196.10
Major Collector	43	0.945	1.047	0.95	675,505	641.73
Minor Collector	44	0.955	1.057	0.96	577,204	554.12
Local	44	0.949	1.052	0.96	751,374	721.32
				Total Rural	4,105,325	5,571.16

Total Normalized VMT for this Analysis Year=	16,969,570	Total NO_X Emissions (Kilograms per Day)	18,758.00

Year of Analysis = 2020

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		94.00%	6.00%			
Urban Functional Classification	**Speed**					
Interstate	52	0.410	0.543	0.42	2,375,703	997.80
Freeway	54	0.361	0.506	0.37	4,208,758	1,557.24
Other P-A	29	0.300	0.446	0.31	1,813,763	562.27
Minor Arterial	31	0.285	0.434	0.29	3,731,957	1,082.27
Collector	32	0.280	0.429	0.29	921,493	267.23
Local	33	0.292	0.437	0.30	1,666,379	499.91
				Total Urban	14,718,053	4,966.72
Rural Functional Classification	**Speed**					
Interstate	56	0.554	0.665	0.56	1,089,681	610.22
Other P-A	54	0.385	0.524	0.39	1,100,060	429.02
Minor Arterial	41	0.324	0.463	0.33	174,848	57.70
Major Collector	44	0.313	0.458	0.32	728,983	233.27
Minor Collector	45	0.316	0.461	0.32	494,339	158.19
Local	44	0.313	0.458	0.32	714,698	228.70
				Total Rural	4,302,609	1,717.11

Total Normalized VMT for this Analysis Year=	19,020,662	Total NO_X Emissions (Kilograms per Day)	6,683.83

Year of Analysis = 2030

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		94.00%	6.00%			
Urban Functional Classification	**Speed**					
Interstate	52	0.239	0.371	0.25	2,764,851	691.21
Freeway	54	0.222	0.366	0.23	4,947,671	1,137.96
Other P-A	28	0.193	0.339	0.20	2,188,761	437.75
Minor Arterial	31	0.185	0.332	0.19	4,714,295	895.72
Collector	32	0.183	0.331	0.19	1,223,669	232.50
Local	33	0.187	0.331	0.20	2,168,080	433.62
				Total Urban	18,007,327	3,828.76
Rural Functional Classification						
Interstate	56	0.298	0.409	0.30	1,138,965	341.69
Other P-A	53	0.231	0.369	0.24	1,268,454	304.43
Minor Arterial	41	0.201	0.339	0.21	217,701	45.72
Major Collector	44	0.199	0.342	0.21	928,998	195.09
Minor Collector	45	0.200	0.344	0.21	820,188	172.24
Local	44	0.198	0.342	0.21	1,031,431	216.60
				Total Rural	5,405,737	1,275.77

Total Normalized VMT for this Analysis Year=	23,413,064	Total NO_X Emissions (Kilograms per Day)	5,104.52

Year of Analysis = 2002

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		76.00%	24.00%			
Urban Functional Classification	**Speed**					
Interstate	51	0.060	0.060	0.06	2,656,538	159.39
Freeway	52	0.043	0.043	0.04	1,837,664	73.51
Other P-A	29	0.037	0.037	0.04	1,690,292	67.61
Minor Arterial	31	0.031	0.031	0.03	3,202,345	96.07
Collector	33	0.029	0.029	0.03	730,618	21.92
Local	34	0.034	0.034	0.03	1,330,851	39.93
				Total Urban	11,448,308	458.42
Rural Functional Classification	**Speed**					
Interstate	55	0.093	0.093	0.09	952,115	85.69
Other P-A	53	0.051	0.051	0.05	573,061	28.65
Minor Arterial	41	0.045	0.045	0.04	199,552	7.98
Major Collector	43	0.038	0.038	0.04	562,663	22.51
Minor Collector	44	0.038	0.038	0.04	435,173	17.41
Local	44	0.038	0.038	0.04	551,577	22.06
				Total Rural	3,274,141	184.30

Total Normalized VMT for this Analysis Year=	14,722,449	Total VOC Emissions (Kilograms per Day)	643.00

Year of Analysis = 2010

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		94.00%	6.00%			
Urban Functional Classification	**Speed**					
Interstate	52	0.028	0.028	0.03	2,405,546	72.17
Freeway	53	0.022	0.022	0.02	2,490,824	49.82
Other P-A	29	0.019	0.019	0.02	1,800,725	36.01
Minor Arterial	32	0.017	0.017	0.02	3,704,140	74.08
Collector	33	0.016	0.016	0.02	912,203	18.24
Local	33	0.018	0.018	0.02	1,550,807	31.02
				Total Urban	12,864,245	281.34
Rural Functional Classification						
Interstate	55	0.041	0.041	0.04	1,079,229	43.17
Other P-A	53	0.025	0.025	0.03	831,623	24.95
Minor Arterial	41	0.022	0.022	0.02	190,390	3.81
Major Collector	43	0.020	0.020	0.02	675,505	13.51
Minor Collector	44	0.020	0.020	0.02	577,204	11.54
Local	44	0.020	0.020	0.02	751,374	15.03
				Total Rural	4,105,325	112.01

Total Normalized VMT for this Analysis Year=	16,969,570	Total VOC Emissions (Kilograms per Day)	393.00

Year of Analysis = 2020

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		94.00%	6.00%			
Urban Functional Classification	**Speed**					
Interstate	52	0.016	0.016	0.02	2,375,703	47.51
Freeway	54	0.014	0.014	0.01	4,208,758	42.09
Other P-A	29	0.013	0.013	0.01	1,813,763	18.14
Minor Arterial	31	0.013	0.013	0.01	3,731,957	37.32
Collector	32	0.013	0.013	0.01	921,493	9.21
Local	33	0.013	0.013	0.01	1,666,379	16.66
				Total Urban	14,718,053	170.94
Rural Functional Classification	**Speed**					
Interstate	56	0.019	0.019	0.02	1,089,681	21.79
Other P-A	54	0.015	0.015	0.01	1,100,060	11.00
Minor Arterial	41	0.014	0.014	0.01	174,848	1.75
Major Collector	44	0.014	0.014	0.01	728,983	7.29
Minor Collector	45	0.014	0.014	0.01	494,339	4.94
Local	44	0.014	0.014	0.01	714,698	7.15
				Total Rural	4,302,609	53.92

Total Normalized VMT for this Analysis Year=	19,020,662	Total Emissions (Kilograms per Day)	224.86

Year of Analysis = 2030

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		94.00%	6.00%			
Urban Functional Classification	**Speed**					
Interstate	52	0.015	0.015	0.01	2,764,851	27.65
Freeway	54	0.013	0.013	0.01	4,947,671	49.48
Other P-A	28	0.013	0.013	0.01	2,188,761	21.89
Minor Arterial	31	0.012	0.012	0.01	4,714,295	47.14
Collector	32	0.012	0.012	0.01	1,223,669	12.24
Local	33	0.013	0.013	0.01	2,168,080	21.68
				Total Urban	18,007,327	180.07
Rural Functioanl Classification	**Speed**					
Interstate	56	0.017	0.017	0.02	1,138,965	22.78
Other P-A	53	0.014	0.014	0.01	1,268,454	12.68
Minor Arterial	41	0.014	0.014	0.01	217,701	2.18
Major Collector	44	0.013	0.013	0.01	928,998	9.29
Minor Collector	45	0.013	0.013	0.01	820,188	8.20
Local	44	0.013	0.013	0.01	1,031,431	10.31
				Total Rural	5,405,737	65.45

Total Normalized VMT for this Analysis Year=	23,413,064	Total Emissions (Kilograms per Day)	245.52

PM2.5 Comparison Table

Analysis Year	Model	Off-Model	Comparison Amount	
2002	**643**	**3**	640	
2010	**393**	**3**	390	OK
2020	**225**	**3**	222	OK
2030	**246**	**3**	242	OK

NOx Comparison Table

Analysis Year	Model	Off-Model	Comparison Amount	
2002	**38,863**	**251**	38,612	
2010	**18,758**	**142**	18,616	OK
2020	**6,684**	**105**	6,579	OK
2030	**5,105**	**41**	5,063	OK

1

Off Model

NOX

Year	Total (Kg/Day)	Incident Management	Van Pool Program	Transit Improvememts	Park & Ride Lots
2002	251	117	1	130	3
2010	142	83	2	56	1
2020	105	86	1	18	0
2030	41	25	1	15	0

VOC

Year	Total (Kg/Day)	Incident Management	Van Pool Program	Transit Improvements	Park & Ride Lots
2002	3	2	0	1	0
2010	3	2	0	1	0
2020	3	1	0	2	0
2030	3	1	0	2	0

CO

Year
2002
2010
2020
2030
0

ITS

Regional Freeway Emissions

Year	Pollutant NOX	Pollutant PM2.5
2002	20,329	319
2010	10,225	196
2020	9,698	111
2030	2,171	100

Emissions Caused by Nonrecurring Congestion (4.9% of total).

Year	Pollutant NOX	Pollutant PM2.5
2002	996	16
2010	501	10
2020	475	5
2030	106	5

Program Type	Effectiveness				
Incident Detection & Response	50%	1	Program in Use=	1	2002
Motorist Assistance Patrol	25%	2		1	2010
Surveillance	15%	3		1	2020
				1	2030

Emissions Reduction

Year	Total Freeway VMT	Freeway VMT Subject to Program	NOX (KG/Day)	pm2.5 (KG/Day)
2002	5,446,317	1,276,992	117	2
2010	5,975,599	1,986,035	83	2
2020	7,674,142	2,787,518	86	1
2030	8,851,487	4,191,913	25	1

Vanpool

Vanpool Information by Year

Year	#Vanpools	Avg Riders/Van	Total Riders	Commute VOR	Cars Removed	Daily Miles Per Vehicle (AVG Commute X 2)	Total Daily Miles Reduced
2002	5.5	12	66	1.35	48	19.94	957
2010	25.5	12	306	1.35	226	20.1	4,543
2020	37.5	12	450	1.35	333	20.24	6,740
2030	57.5	12	690	1.35	511	20.52	10,486

Emissions Factors By Pollutant for LDGV (Urban Prin Art)

	NOX	PM2.5
2002	1.246	0.014
2010	0.455	0.011
2020	0.130	0.011
2030	0.091	0.011

Emissions Reduction By Pollutant

	Total Daily Miles Reduced	NOX (Kg/Day)	PM2.5 (Kg/Day)
2002	957	1.000	0.000
2010	4,543	2.000	0.000
2020	6,740	1.000	0.000
2030	10,486	1.000	0.000

Transit Improvements

	Transit Riders					
Year	After	Before	Avg. VOR	Vehicles Removed	Avg. Trip Length (Mi.)	Daily VMT Reduction (Mi.)
2002	14,600	-	1.35	10,814	9.67	104,571
2010	16,300	-	1.31	12,442	9.87	122,803
2020	17,700	-	1.31	13,511	9.98	134,840
2030	21,300	-	1.31	16,259	10.07	163,728

	Emissions Factors (gm/mi)	
	NOX	PM2.5
2002	1.246	0.014
2010	0.455	0.011
2020	0.130	0.011
2030	0.091	0.011

	Emissions Reduction (Kg/Day)	
	NOX	PM2.5
2002	130	1
2010	56	1
2020	18	2
2030	15	2
0	0	0

Park_Ride

	Utiliization	#of Spaces	# of Cars	AVG Trip Length	Daily Miles Per Vehicle (AVG Commute X 2)	Total Daily Miles Reduced
2002	90%	220	198	5.58	11.16	2209.68
2010	90%	220	198	5.77	11.54	2284.92
2020	90%	220	198	5.94	11.88	2352.24
2030	90%	220	198	5.93	11.86	2348.28
0						

Emissions Facotrs

	NOX	PM2.5
2002	1.246	0.014
2010	0.455	0.011
2020	0.130	0.011
2030	0.091	0.011
0		

Emissions Reduction

	NOX	PM2.5
2002	3	0
2010	1	0
2020	0	0
2030	0	0

PM2.5 - I/M

Roadway Type	2002					2010				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Urban Interstate	0.061	0.061	0.0589	0.0589	**0.060**	0.0292	0.0292	0.0274	0.0274	**0.028**
Urban Freeway	0.0434	0.0434	0.0421	0.0421	**0.043**	0.0223	0.0223	0.0212	0.0212	**0.022**
Urban Principle Arterial	0.0372	0.0372	0.0362	0.0362	**0.037**	0.0196	0.0196	0.0188	0.0188	**0.019**
Urban Minimal Arterial	0.0314	0.0314	0.0306	0.0306	**0.031**	0.0174	0.0174	0.0168	0.0168	**0.017**
Urban Collector	0.0293	0.0293	0.0286	0.0286	**0.029**	0.0166	0.0166	0.0161	0.0161	**0.016**
Urban Local	0.0345	0.0345	0.0336	0.0336	**0.034**	0.0187	0.0187	0.018	0.018	**0.018**
Rural Interstate	0.0943	0.0943	0.0908	0.0908	**0.093**	0.0423	0.0423	0.0393	0.0393	**0.041**
Rural Principle Arterial	0.0521	0.0521	0.0504	0.0504	**0.051**	0.0257	0.0257	0.0243	0.0243	**0.025**
Rural Minor Arterial	0.0453	0.0453	0.0439	0.0439	**0.045**	0.023	0.023	0.0218	0.0218	**0.022**
Rural Major Collector	0.0385	0.0385	0.0374	0.0374	**0.038**	0.0203	0.0203	0.0194	0.0194	**0.020**
Rural Minimal Collector	0.0388	0.0388	0.0377	0.0377	**0.038**	0.0204	0.0204	0.0195	0.0195	**0.020**
Rural Local	0.0383	0.0383	0.0372	0.0372	**0.038**	0.0203	0.0203	0.0194	0.0194	**0.020**

2020					2030				
1st Quarter	2nd Quarter	3rd Quarter	4th Quarter		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
0.0158	0.0158	0.0157	0.0157	**0.016**	0.0147	0.0147	0.0147	0.0147	**0.015**
0.014	0.014	0.014	0.014	**0.014**	0.0133	0.0133	0.0133	0.0133	**0.013**
0.0134	0.0134	0.0133	0.0133	**0.013**	0.0128	0.0128	0.0128	0.0128	**0.013**
0.0128	0.0128	0.0127	0.0127	**0.013**	0.0124	0.0124	0.0124	0.0124	**0.012**
0.0126	0.0126	0.0125	0.0125	**0.013**	0.0122	0.0122	0.0122	0.0122	**0.012**
0.0131	0.0131	0.0131	0.0131	**0.013**	0.0127	0.0127	0.0126	0.0126	**0.013**
0.0192	0.0192	0.019	0.019	**0.019**	0.0172	0.0172	0.0172	0.0172	**0.017**
0.0149	0.0149	0.0148	0.0148	**0.015**	0.014	0.014	0.014	0.014	**0.014**
0.0142	0.0142	0.0141	0.0141	**0.014**	0.0135	0.0135	0.0135	0.0135	**0.014**
0.0135	0.0135	0.0135	0.0135	**0.014**	0.013	0.013	0.0129	0.0129	**0.013**
0.0136	0.0136	0.0135	0.0135	**0.014**	0.013	0.013	0.013	0.013	**0.013**
0.0135	0.0135	0.0135	0.0135	**0.014**	0.013	0.013	0.0129	0.0129	**0.013**

PM2.5 - No I/M

Roadway Type	2002					2010				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Urban Interstate	0.061	0.061	0.0589	0.0589	**0.060**	0.0292	0.0292	0.0274	0.0274	**0.028**
Urban Freeway	0.0434	0.0434	0.0421	0.0421	**0.043**	0.0223	0.0223	0.0212	0.0212	**0.022**
Urban Principle Arterial	0.0372	0.0372	0.0362	0.0362	**0.037**	0.0196	0.0196	0.0188	0.0188	**0.019**
Urban Minimal Arterial	0.0314	0.0314	0.0306	0.0306	**0.031**	0.0174	0.0174	0.0168	0.0168	**0.017**
Urban Collector	0.0293	0.0293	0.0286	0.0286	**0.029**	0.0166	0.0166	0.0161	0.0161	**0.016**
Urban Local	0.0345	0.0345	0.0336	0.0336	**0.034**	0.0187	0.0187	0.018	0.018	**0.018**
Rural Interstate	0.0943	0.0943	0.0908	0.0908	**0.093**	0.0423	0.0423	0.0393	0.0393	**0.041**
Rural Principle Arterial	0.0521	0.0521	0.0504	0.0504	**0.051**	0.0257	0.0257	0.0243	0.0243	**0.025**
Rural Minor Arterial	0.0453	0.0453	0.0439	0.0439	**0.045**	0.023	0.023	0.0218	0.0218	**0.022**
Rural Major Collector	0.0385	0.0385	0.0374	0.0374	**0.038**	0.0203	0.0203	0.0194	0.0194	**0.020**
Rural Minimal Collector	0.0388	0.0388	0.0377	0.0377	**0.038**	0.0204	0.0204	0.0195	0.0195	**0.020**
Rural Local	0.0383	0.0383	0.0372	0.0372	**0.038**	0.0203	0.0203	0.0194	0.0194	**0.020**

2020					2030				
1st Quarter	2nd Quarter	3rd Quarter	4th Quarter		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
0.0158	0.0158	0.0157	0.0157	**0.016**	0.0147	0.0147	0.0147	0.0147	**0.015**
0.014	0.014	0.014	0.014	**0.014**	0.0133	0.0133	0.0133	0.0133	**0.013**
0.0134	0.0134	0.0133	0.0133	**0.013**	0.0128	0.0128	0.0128	0.0128	**0.013**
0.0128	0.0128	0.0127	0.0127	**0.013**	0.0124	0.0124	0.0124	0.0124	**0.012**
0.0126	0.0126	0.0125	0.0125	**0.013**	0.0122	0.0122	0.0122	0.0122	**0.012**
0.0131	0.0131	0.0131	0.0131	**0.013**	0.0127	0.0127	0.0126	0.0126	**0.013**
0.0192	0.0192	0.019	0.019	**0.019**	0.0172	0.0172	0.0172	0.0172	**0.017**
0.0149	0.0149	0.0148	0.0148	**0.015**	0.014	0.014	0.014	0.014	**0.014**
0.0142	0.0142	0.0141	0.0141	**0.014**	0.0135	0.0135	0.0135	0.0135	**0.014**
0.0135	0.0135	0.0135	0.0135	**0.014**	0.013	0.013	0.0129	0.0129	**0.013**
0.0136	0.0136	0.0135	0.0135	**0.014**	0.013	0.013	0.013	0.013	**0.013**
0.0135	0.0135	0.0135	0.0135	**0.014**	0.013	0.013	0.0129	0.0129	**0.013**

NOx - I/M

Roadway Type	2002					2010				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Urban Interstate	3.861	3.708	3.555	3.622	**3.687**	1.577	1.501	1.378	1.434	**1.473**
Urban Freeway	2.915	2.757	2.648	2.774	**2.774**	1.253	1.174	1.082	1.143	**1.163**
Urban Principle Arterial	2.13	1.99	1.933	2.035	**2.022**	0.968	0.897	0.835	0.887	**0.897**
Urban Minimal Arterial	1.916	1.774	1.724	1.83	**1.811**	0.879	0.807	0.753	0.807	**0.812**
Urban Collector	1.839	1.696	1.647	1.756	**1.735**	0.849	0.777	0.725	0.78	**0.783**
Urban Local	2.025	1.883	1.827	1.934	**1.917**	0.925	0.853	0.794	0.847	**0.855**
Rural Interstate	5.889	5.744	5.504	5.605	**5.686**	2.341	2.27	2.074	2.121	**2.202**
Rural Principle Arterial	3.066	2.91	2.818	2.94	**2.934**	1.382	1.304	1.2	1.259	**1.286**
Rural Minor Arterial	2.47	2.325	2.251	2.362	**2.352**	1.107	1.034	0.957	1.011	**1.027**
Rural Major Collector	2.249	2.099	2.033	2.15	**2.133**	1.021	0.946	0.877	0.934	**0.945**
Rural Minimal Collector	2.273	2.123	2.055	2.174	**2.156**	1.032	0.957	0.887	0.944	**0.955**
Rural Local	2.257	2.106	2.039	2.158	**2.140**	1.026	0.951	0.881	0.939	**0.949**

2020					2030				
1st Quarter	2nd Quarter	3rd Quarter	4th Quarter		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
0.435	0.409	0.388	0.409	**0.410**	0.249	0.233	0.231	0.243	**0.239**
0.385	0.357	0.34	0.362	**0.361**	0.233	0.216	0.213	0.227	**0.222**
0.318	0.296	0.284	0.302	**0.300**	0.202	0.188	0.187	0.196	**0.193**
0.305	0.279	0.269	0.287	**0.285**	0.194	0.179	0.178	0.189	**0.185**
0.299	0.274	0.264	0.282	**0.280**	0.192	0.177	0.176	0.186	**0.183**
0.311	0.286	0.275	0.294	**0.292**	0.196	0.181	0.18	0.19	**0.187**
0.583	0.559	0.529	0.546	**0.554**	0.308	0.294	0.29	0.301	**0.298**
0.409	0.382	0.363	0.385	**0.385**	0.241	0.225	0.222	0.235	**0.231**
0.345	0.319	0.306	0.325	**0.324**	0.21	0.195	0.194	0.205	**0.201**
0.334	0.308	0.295	0.315	**0.313**	0.208	0.193	0.191	0.203	**0.199**
0.337	0.31	0.297	0.318	**0.316**	0.21	0.194	0.192	0.204	**0.200**
0.334	0.308	0.294	0.315	**0.313**	0.208	0.192	0.19	0.203	**0.198**

NOx - No I/M

Roadway Type	2002					2010				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Urban Interstate	3.876	3.722	3.568	3.636	**3.701**	1.675	1.589	1.465	1.531	**1.565**
Urban Freeway	2.931	2.772	2.661	2.789	**2.788**	1.36	1.269	1.176	1.249	**1.264**
Urban Principle Arterial	2.147	2.005	1.947	2.051	**2.038**	1.078	0.995	0.934	0.995	**1.001**
Urban Minimal Arterial	1.934	1.789	1.738	1.846	**1.827**	0.991	0.907	0.853	0.916	**0.917**
Urban Collector	1.857	1.711	1.661	1.772	**1.750**	0.962	0.877	0.826	0.89	**0.889**
Urban Local	2.043	1.898	1.841	1.95	**1.933**	1.034	0.951	0.893	0.955	**0.958**
Rural Interstate	5.902	5.755	5.514	5.617	**5.697**	2.424	2.343	2.147	2.202	**2.279**
Rural Principle Arterial	3.082	2.924	2.83	2.955	**2.948**	1.485	1.396	1.291	1.361	**1.383**
Rural Minor Arterial	2.487	2.339	2.264	2.377	**2.367**	1.211	1.127	1.05	1.114	**1.126**
Rural Major Collector	2.266	2.114	2.046	2.165	**2.148**	1.129	1.043	0.973	1.041	**1.047**
Rural Minimal Collector	2.29	2.138	2.069	2.189	**2.172**	1.14	1.053	0.983	1.051	**1.057**
Rural Local	2.274	2.121	2.053	2.173	**2.155**	1.135	1.047	0.978	1.046	**1.052**

2020					2030				
1st Quarter	2nd Quarter	3rd Quarter	4th Quarter		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
0.576	0.535	0.513	0.546	**0.543**	0.389	0.359	0.355	0.379	**0.371**
0.539	0.495	0.476	0.512	**0.506**	0.386	0.354	0.349	0.376	**0.366**
0.471	0.435	0.423	0.453	**0.446**	0.356	0.327	0.325	0.346	**0.339**
0.462	0.421	0.41	0.441	**0.434**	0.349	0.32	0.318	0.34	**0.332**
0.458	0.417	0.405	0.437	**0.429**	0.348	0.318	0.317	0.339	**0.331**
0.466	0.425	0.413	0.444	**0.437**	0.348	0.319	0.317	0.339	**0.331**
0.701	0.665	0.633	0.662	**0.665**	0.426	0.4	0.395	0.416	**0.409**
0.557	0.514	0.494	0.529	**0.524**	0.388	0.357	0.352	0.378	**0.369**
0.493	0.453	0.437	0.469	**0.463**	0.357	0.327	0.324	0.348	**0.339**
0.488	0.446	0.431	0.465	**0.458**	0.361	0.33	0.326	0.351	**0.342**
0.491	0.449	0.434	0.468	**0.461**	0.362	0.331	0.328	0.353	**0.344**
0.488	0.446	0.431	0.465	**0.458**	0.361	0.33	0.326	0.351	**0.342**

PM2.5 - TDM - No I/M

Roadway Type	2002					2010				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Rural Interstate										
Rural Principle Arterial										
Rural Minor Arterial	0.0527	0.0527	0.0504	0.0504	**0.052**	0.0269	0.0269	0.0252	0.0252	**0.026**
Rural Major Collector	0.0443	0.0443	0.0425	0.0425	**0.043**	0.0233	0.0233	0.0221	0.0221	**0.023**
Rural Minimal Collector	0.0447	0.0447	0.0429	0.0429	**0.044**	0.0235	0.0235	0.0222	0.0222	**0.023**
Rural Local	0.0442	0.0442	0.0424	0.0424	**0.043**	0.0233	0.0233	0.022	0.022	**0.023**
Urban Interstate	0.0721	0.0721	0.0686	0.0686	**0.070**	0.0352	0.0352	0.0326	0.0326	**0.034**
Urban Freeway	0.0504	0.0504	0.0482	0.0482	**0.049**	0.0259	0.0259	0.0244	0.0244	**0.025**
Urban Principle Arterial	0.0425	0.0425	0.0408	0.0408	**0.042**	0.0224	0.0224	0.0212	0.0212	**0.022**
Urban Minimal Arterial	0.0355	0.0355	0.0342	0.0342	**0.035**	0.0194	0.0194	0.0186	0.0186	**0.019**
Urban Collector	0.033	0.033	0.0319	0.0319	**0.032**	0.0184	0.0184	0.0176	0.0176	**0.018**
Urban Local	0.0395	0.0395	0.038	0.038	**0.039**	0.0212	0.0212	0.0202	0.0202	**0.021**

2020					2030				
1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
0.0149	0.0149	0.0147	0.0147	**0.015**	0.0137	0.0137	0.0136	0.0136	**0.014**
0.0141	0.0141	0.0139	0.0139	**0.014**	0.0131	0.0131	0.0131	0.0131	**0.013**
0.0141	0.0141	0.014	0.014	**0.014**	0.0131	0.0131	0.0131	0.0131	**0.013**
0.0141	0.0141	0.0139	0.0139	**0.014**	0.0131	0.0131	0.0131	0.0131	**0.013**
0.0169	0.0169	0.0166	0.0166	**0.017**	0.015	0.015	0.0149	0.0149	**0.015**
0.0147	0.0147	0.0145	0.0145	**0.015**	0.0135	0.0135	0.0135	0.0135	**0.014**
0.0139	0.0139	0.0137	0.0137	**0.014**	0.013	0.013	0.013	0.013	**0.013**
0.0131	0.0131	0.013	0.013	**0.013**	0.0125	0.0125	0.0125	0.0125	**0.013**
0.0129	0.0129	0.0128	0.0128	**0.013**	0.0123	0.0123	0.0123	0.0123	**0.012**
0.0136	0.0136	0.0135	0.0135	**0.014**	0.0128	0.0128	0.0128	0.0128	**0.013**

PM2.5 - TDM - I/M

Roadway Type	2002					2010				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Rural Interstate										
Rural Principle Arterial										
Rural Minor Arterial	0.0527	0.0527	0.0504	0.0504	**0.052**	0.0269	0.0269	0.0252	0.0252	**0.026**
Rural Major Collector	0.0443	0.0443	0.0425	0.0425	**0.043**	0.0233	0.0233	0.0221	0.0221	**0.023**
Rural Minimal Collector	0.0447	0.0447	0.0429	0.0429	**0.044**	0.0235	0.0235	0.0222	0.0222	**0.023**
Rural Local	0.0442	0.0442	0.0424	0.0424	**0.043**	0.0233	0.0233	0.022	0.022	**0.023**
Urban Interstate	0.0721	0.0721	0.0686	0.0686	**0.070**	0.0352	0.0352	0.0326	0.0326	**0.034**
Urban Freeway	0.0504	0.0504	0.0482	0.0482	**0.049**	0.0259	0.0259	0.0244	0.0244	**0.025**
Urban Principle Arterial	0.0425	0.0425	0.0408	0.0408	**0.042**	0.0224	0.0224	0.0212	0.0212	**0.022**
Urban Minimal Arterial	0.0355	0.0355	0.0342	0.0342	**0.035**	0.0194	0.0194	0.0186	0.0186	**0.019**
Urban Collector	0.033	0.033	0.0319	0.0319	**0.032**	0.0184	0.0184	0.0176	0.0176	**0.018**
Urban Local	0.0395	0.0395	0.038	0.038	**0.039**	0.0212	0.0212	0.0202	0.0202	**0.021**

Roadway Type	2020					2030				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Rural Interstate										
Rural Principle Arterial										
Rural Minor Arterial	0.0149	0.0149	0.0147	0.0147	**0.015**	0.0137	0.0137	0.0136	0.0136	**0.014**
Rural Major Collector	0.0141	0.0141	0.0139	0.0139	**0.014**	0.0131	0.0131	0.0131	0.0131	**0.013**
Rural Minimal Collector	0.0141	0.0141	0.014	0.014	**0.014**	0.0131	0.0131	0.0131	0.0131	**0.013**
Rural Local	0.0141	0.0141	0.0139	0.0139	**0.014**	0.0131	0.0131	0.0131	0.0131	**0.013**
Urban Interstate	0.0169	0.0169	0.0166	0.0166	**0.017**	0.015	0.015	0.0149	0.0149	**0.015**
Urban Freeway	0.0147	0.0147	0.0145	0.0145	**0.015**	0.0135	0.0135	0.0135	0.0135	**0.014**
Urban Principle Arterial	0.0139	0.0139	0.0137	0.0137	**0.014**	0.013	0.013	0.013	0.013	**0.013**
Urban Minimal Arterial	0.0131	0.0131	0.013	0.013	**0.013**	0.0125	0.0125	0.0125	0.0125	**0.013**
Urban Collector	0.0129	0.0129	0.0128	0.0128	**0.013**	0.0123	0.0123	0.0123	0.0123	**0.012**
Urban Local	0.0136	0.0136	0.0135	0.0135	**0.014**	0.0128	0.0128	0.0128	0.0128	**0.013**

NOx - TDM - No I/M

Roadway Type	2002					2010				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Rural Interstate										
Rural Principle Arterial										
Rural Minor Arterial	2.638	2.477	2.389	2.516	**2.505**	1.372	1.278	1.189	1.26	**1.275**
Rural Major Collector	2.393	2.257	2.179	2.313	**2.286**	1.287	1.189	1.11	1.186	**1.193**
Rural Minimal Collector	2.42	2.255	2.177	2.31	**2.291**	1.284	1.187	1.108	1.183	**1.191**
Rural Local	2.432	2.264	2.185	2.321	**2.301**	1.3	1.201	1.12	1.198	**1.205**
Urban Interstate	4.604	4.428	4.231	4.375	**4.410**	2.236	2.133	1.95	2.029	**2.087**
Urban Freeway	3.198	3.021	2.89	3.038	**3.037**	1.601	1.497	1.383	1.466	**1.487**
Urban Principle Arterial	2.287	2.131	2.063	2.183	**2.166**	1.227	1.133	1.063	1.132	**1.139**
Urban Minimal Arterial	2.074	1.915	1.857	1.98	**1.957**	1.118	1.023	0.964	1.036	**1.035**
Urban Collector	1.996	1.837	1.782	1.906	**1.880**	1.09	0.995	0.939	1.012	**1.009**
Urban Local	2.192	2.034	1.969	2.092	**2.072**	1.18	1.086	1.021	1.091	**1.095**

Roadway Type	2020					2030				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Rural Interstate										
Rural Principle Arterial										
Rural Minor Arterial	0.597	0.55	0.529	0.557	**0.558**	0.394	0.362	0.359	0.384	**0.375**
Rural Major Collector	0.587	0.537	0.517	0.555	**0.549**	0.4	0.366	0.363	0.39	**0.380**
Rural Minimal Collector	0.585	0.536	0.516	0.562	**0.550**	0.399	0.365	0.361	0.389	**0.379**
Rural Local	0.592	0.542	0.521	0.562	**0.554**	0.404	0.369	0.365	0.394	**0.383**
Urban Interstate	0.812	0.761	0.72	0.762	**0.764**	0.474	0.439	0.431	0.461	**0.451**
Urban Freeway	0.669	0.617	0.589	0.633	**0.627**	0.434	0.397	0.392	0.423	**0.412**
Urban Principle Arterial	0.571	0.524	0.482	0.543	**0.530**	0.394	0.364	0.363	0.386	**0.377**
Urban Minimal Arterial	0.546	0.498	0.481	0.52	**0.511**	0.386	0.353	0.351	0.377	**0.367**
Urban Collector	0.543	0.495	0.498	0.518	**0.514**	0.388	0.355	0.354	0.379	**0.369**
Urban Local	0.561	0.514	0.566	0.534	**0.544**	0.39	0.358	0.356	0.38	**0.371**

NOx - TDM - I/M

Roadway Type	2002					2010				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Rural Interstate										
Rural Principle Arterial										
Rural Minor Arterial	2.617	2.46	2.372	2.497	**2.487**	1.263	1.181	1.091	1.152	**1.172**
Rural Major Collector	2.373	2.239	2.162	2.294	**2.267**	1.175	1.089	1.008	1.074	**1.087**
Rural Minimal Collector	2.4	2.238	2.16	2.291	**2.272**	1.172	1.086	1.007	1.072	**1.084**
Rural Local	2.411	2.246	2.169	2.302	**2.282**	1.187	1.1	1.019	1.086	**1.098**
Urban Interstate	4.585	4.411	4.216	4.357	**4.392**	2.132	2.041	1.857	1.926	**1.989**
Urban Freeway	3.177	3.003	2.874	3.019	**3.018**	1.489	1.398	1.283	1.355	**1.381**
Urban Principle Arterial	2.266	2.112	2.046	2.163	**2.147**	1.112	1.031	0.96	1.019	**1.031**
Urban Minimal Arterial	2.052	1.896	1.839	1.96	**1.937**	1.002	0.92	0.859	0.921	**0.926**
Urban Collector	1.974	1.818	1.764	1.887	**1.861**	0.973	0.89	0.833	0.895	**0.898**
Urban Local	2.171	2.016	1.952	2.073	**2.053**	1.066	0.984	0.917	0.977	**0.986**

Roadway Type	2020					2030				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Rural Interstate										
Rural Principle Arterial										
Rural Minor Arterial	0.431	0.401	0.381	0.403	**0.404**	0.23	0.214	0.212	0.224	**0.220**
Rural Major Collector	0.414	0.382	0.363	0.388	**0.387**	0.23	0.212	0.209	0.223	**0.219**
Rural Minimal Collector	0.413	0.381	0.363	0.387	**0.386**	0.228	0.211	0.209	0.222	**0.218**
Rural Local	0.419	0.386	0.367	0.392	**0.391**	0.232	0.214	0.212	0.225	**0.221**
Urban Interstate	0.651	0.617	0.578	0.604	**0.613**	0.313	0.295	0.289	0.303	**0.300**
Urban Freeway	0.496	0.462	0.436	0.463	**0.464**	0.261	0.242	0.238	0.253	**0.249**
Urban Principle Arterial	0.397	0.367	0.351	0.373	**0.372**	0.222	0.208	0.206	0.217	**0.213**
Urban Minimal Arterial	0.37	0.339	0.325	0.348	**0.346**	0.213	0.196	0.194	0.206	**0.202**
Urban Collector	0.365	0.334	0.32	0.343	**0.341**	0.212	0.196	0.195	0.206	**0.202**
Urban Local	0.387	0.356	0.341	0.363	**0.362**	0.218	0.202	0.2	0.212	**0.208**

PM2.5 - Rural Spreadsheet - No I/M

Roadway Type	2002					2010			
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Rural Interstate	0.1132	0.1132	0.1072	0.1072	**0.110**	0.0528	0.0528	0.0483	0.0483
Rural Principle Arterial	0.0611	0.0611	0.0583	0.0583	**0.060**	0.0305	0.0305	0.0285	0.0285
Rural Minor Arterial	0.0527	0.0527	0.0504	0.0504	**0.052**	0.0269	0.0269	0.0252	0.0252
Rural Major Collector	0.0443	0.0443	0.0425	0.0425	**0.043**	0.0233	0.0233	0.0221	0.0221
Rural Minimal Collector	0.0447	0.0447	0.0429	0.0429	**0.044**	0.0235	0.0235	0.0222	0.0222
Rural Local	0.0442	0.0442	0.0424	0.0424	**0.043**	0.0233	0.0233	0.022	0.022
Urban Interstate	0.0721	0.0721	0.0686	0.0686	**0.070**	0.0352	0.0352	0.0326	0.0326
Urban Freeway	0.0504	0.0504	0.0482	0.0482	**0.049**	0.0259	0.0259	0.0244	0.0244
Urban Principle Arterial	0.0427	0.0427	0.0411	0.0411	**0.042**	0.0224	0.0224	0.0212	0.0212
Urban Minimal Arterial	0.0355	0.0355	0.0342	0.0342	**0.035**	0.0194	0.0194	0.0186	0.0186
Urban Collector	0.0331	0.0331	0.032	0.032	**0.033**	0.0184	0.0184	0.0176	0.0176
Urban Local	0.0397	0.0397	0.0382	0.0382	**0.039**	0.0212	0.0212	0.0202	0.0202

Roadway Type	2020					2030			
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Rural Interstate	0.0211	0.0211	0.0206	0.0206	**0.021**	0.0178	0.0178	0.0177	0.0177
Rural Principle Arterial	0.0158	0.0158	0.0156	0.0156	**0.016**	0.0143	0.0143	0.0142	0.0142
Rural Minor Arterial	0.0149	0.0149	0.0147	0.0147	**0.015**	0.0137	0.0137	0.0136	0.0136
Rural Major Collector	0.0141	0.0141	0.0139	0.0139	**0.014**	0.0131	0.0131	0.0131	0.0131
Rural Minimal Collector	0.0141	0.0141	0.014	0.014	**0.014**	0.0131	0.0131	0.0131	0.0131
Rural Local	0.0141	0.0141	0.0139	0.0139	**0.014**	0.0131	0.0131	0.0131	0.0131
Urban Interstate	0.0169	0.0169	0.0166	0.0166	**0.017**	0.015	0.015	0.0149	0.0149
Urban Freeway	0.0147	0.0147	0.0145	0.0145	**0.015**	0.0135	0.0135	0.0135	0.0135
Urban Principle Arterial	0.0139	0.0139	0.0137	0.0137	**0.014**	0.013	0.013	0.013	0.013
Urban Minimal Arterial	0.0131	0.0131	0.0131	0.0131	**0.013**	0.0125	0.0125	0.0125	0.0125
Urban Collector	0.0129	0.0129	0.0128	0.0128	**0.013**	0.0123	0.0123	0.0123	0.0123
Urban Local	0.0136	0.0136	0.0135	0.0135	**0.014**	0.0128	0.0128	0.0128	0.0128

PM2.5 - Rural Spreadsheet - I/M

Roadway Type	2002					2010				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Rural Interstate	0.1132	0.1132	0.1072	0.1072	**0.110**	0.0528	0.0528	0.0483	0.0483	**0.051**
Rural Principle Arterial	0.0611	0.0611	0.0583	0.0583	**0.060**	0.0305	0.0305	0.0285	0.0285	**0.030**
Rural Minor Arterial	0.0527	0.0527	0.0504	0.0504	**0.052**	0.0269	0.0269	0.0252	0.0252	**0.026**
Rural Major Collector	0.0443	0.0443	0.0425	0.0425	**0.043**	0.0233	0.0233	0.0221	0.0221	**0.023**
Rural Minimal Collector	0.0447	0.0447	0.0429	0.0429	**0.044**	0.0235	0.0235	0.0222	0.0222	**0.023**
Rural Local	0.0442	0.0442	0.0424	0.0424	**0.043**	0.0233	0.0233	0.022	0.022	**0.023**
Urban Interstate	0.0721	0.0721	0.0686	0.0686	**0.070**	0.0352	0.0352	0.0326	0.0326	**0.034**
Urban Freeway	0.0504	0.0504	0.0482	0.0482	**0.049**	0.0259	0.0259	0.0244	0.0244	**0.025**
Urban Principle Arterial	0.0427	0.0427	0.0411	0.0411	**0.042**	0.0224	0.0224	0.0212	0.0212	**0.022**
Urban Minimal Arterial	0.0355	0.0355	0.0342	0.0342	**0.035**	0.0194	0.0194	0.0186	0.0186	**0.019**
Urban Collector	0.0331	0.0331	0.032	0.032	**0.033**	0.0184	0.0184	0.0176	0.0176	**0.018**
Urban Local	0.0397	0.0397	0.0382	0.0382	**0.039**	0.0212	0.0212	0.0202	0.0202	**0.021**

Roadway Type	2020					2030				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Rural Interstate	0.0211	0.0211	0.0206	0.0206	**0.021**	0.0178	0.0178	0.0177	0.0177	**0.018**
Rural Principle Arterial	0.0158	0.0158	0.0156	0.0156	**0.016**	0.0143	0.0143	0.0142	0.0142	**0.014**
Rural Minor Arterial	0.0149	0.0149	0.0147	0.0147	**0.015**	0.0137	0.0137	0.0136	0.0136	**0.014**
Rural Major Collector	0.0141	0.0141	0.0139	0.0139	**0.014**	0.0131	0.0131	0.0131	0.0131	**0.013**
Rural Minimal Collector	0.0141	0.0141	0.014	0.014	**0.014**	0.0131	0.0131	0.0131	0.0131	**0.013**
Rural Local	0.0141	0.0141	0.0139	0.0139	**0.014**	0.0131	0.0131	0.0131	0.0131	**0.013**
Urban Interstate	0.0169	0.0169	0.0166	0.0166	**0.017**	0.015	0.015	0.0149	0.0149	**0.015**
Urban Freeway	0.0147	0.0147	0.0145	0.0145	**0.015**	0.0135	0.0135	0.0135	0.0135	**0.014**
Urban Principle Arterial	0.0139	0.0139	0.0137	0.0137	**0.014**	0.013	0.013	0.013	0.013	**0.013**
Urban Minimal Arterial	0.0131	0.0131	0.0131	0.0131	**0.013**	0.0125	0.0125	0.0125	0.0125	**0.013**
Urban Collector	0.0129	0.0129	0.0128	0.0128	**0.013**	0.0123	0.0123	0.0123	0.0123	**0.012**
Urban Local	0.0136	0.0136	0.0135	0.0135	**0.014**	0.0128	0.0128	0.0128	0.0128	**0.013**

NOx - Rural Spreadsheet - No I/M

Roadway Type	2002					2010				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Rural Interstate	7.717	7.547	7.215	7.344	**7.456**	3.68	3.583	3.242	3.31	**3.454**
Rural Principle Arterial	2.983	2.82	2.716	2.845	**2.841**	1.539	1.443	1.336	1.408	**1.432**
Rural Minor Arterial	2.692	2.528	2.438	2.569	**2.557**	1.407	1.311	1.218	1.292	**1.307**
Rural Major Collector	2.423	2.257	2.179	2.313	**2.293**	1.287	1.189	1.11	1.186	**1.193**
Rural Minimal Collector	2.42	2.255	2.177	2.31	**2.291**	1.284	1.187	1.108	1.183	**1.191**
Rural Local	2.403	2.238	2.161	2.294	**2.274**	1.277	1.18	1.101	1.177	**1.184**
Urban Interstate	4.824	4.645	4.442	4.589	**4.625**	2.355	2.251	2.055	2.136	**2.199**
Urban Freeway	3.248	3.07	2.938	3.087	**3.086**	1.629	1.524	1.407	1.491	**1.513**
Urban Principle Arterial	2.325	2.168	2.102	2.219	**2.204**	1.234	1.141	1.07	1.139	**1.146**
Urban Minimal Arterial	2.074	1.915	1.857	1.98	**1.957**	1.123	1.028	0.968	1.04	**1.040**
Urban Collector	2	1.841	1.787	1.91	**1.885**	1.092	0.997	0.942	1.014	**1.011**
Urban Local	2.2	2.043	1.979	2.1	**2.081**	1.18	1.086	1.021	1.091	**1.095**

Roadway Type	2020					2030				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Rural Interstate	1.137	1.091	1.02	1.056	**1.076**	0.557	0.526	0.515	0.541	**0.535**
Rural Principle Arterial	0.636	0.589	0.563	0.601	**0.597**	0.406	0.373	0.369	0.395	**0.386**
Rural Minor Arterial	0.609	0.561	0.539	0.577	**0.572**	0.403	0.37	0.366	0.393	**0.383**
Rural Major Collector	0.587	0.537	0.517	0.557	**0.550**	0.4	0.366	0.363	0.39	**0.380**
Rural Minimal Collector	0.585	0.536	0.516	0.555	**0.548**	0.399	0.365	0.361	0.389	**0.379**
Rural Local	0.583	0.534	0.514	0.554	**0.546**	0.398	0.364	0.361	0.388	**0.378**
Urban Interstate	0.844	0.793	0.749	0.791	**0.794**	0.488	0.453	0.445	0.475	**0.465**
Urban Freeway	0.677	0.625	0.596	0.64	**0.635**	0.438	0.401	0.395	0.427	**0.415**
Urban Principle Arterial	0.574	0.527	0.511	0.546	**0.540**	0.399	0.367	0.366	0.389	**0.380**
Urban Minimal Arterial	0.549	0.501	0.486	0.523	**0.515**	0.389	0.356	0.354	0.379	**0.370**
Urban Collector	0.543	0.495	0.481	0.518	**0.509**	0.388	0.355	0.354	0.379	**0.369**
Urban Local	0.56	0.513	0.496	0.533	**0.526**	0.39	0.358	0.356	0.38	**0.371**

NOx - Rural Spreadsheet - I/M

Roadway Type	2002					2010				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Rural Interstate	7.701	7.533	7.202	7.329	**7.441**	3.593	3.505	3.164	3.223	**3.371**
Rural Principle Arterial	2.963	2.803	2.701	2.827	**2.824**	1.433	1.349	1.241	1.303	**1.332**
Rural Minor Arterial	2.672	2.511	2.421	2.55	**2.539**	1.298	1.213	1.12	1.183	**1.204**
Rural Major Collector	2.402	2.239	2.162	2.294	**2.274**	1.175	1.089	1.008	1.074	**1.087**
Rural Minimal Collector	2.4	2.238	2.16	2.291	**2.272**	1.172	1.086	1.007	1.072	**1.084**
Rural Local	2.382	2.22	2.144	2.275	**2.255**	1.165	1.079	1	1.065	**1.077**
Urban Interstate	4.805	4.629	4.427	4.571	**4.608**	2.251	2.159	1.963	2.032	**2.101**
Urban Freeway	3.228	3.052	2.921	3.068	**3.067**	1.517	1.425	1.307	1.38	**1.407**
Urban Principle Arterial	2.303	2.15	2.085	2.2	**2.185**	1.119	1.037	0.966	1.025	**1.037**
Urban Minimal Arterial	2.052	1.896	1.839	1.96	**1.937**	1.006	0.924	0.863	0.925	**0.930**
Urban Collector	1.979	1.822	1.769	1.891	**1.865**	0.975	0.892	0.835	0.897	**0.900**
Urban Local	2.179	2.024	1.961	2.08	**2.061**	1.066	0.984	0.917	0.977	**0.986**

Roadway Type	2020					2030				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Rural Interstate	1.001	0.97	0.9	0.923	**0.949**	0.421	0.405	0.395	0.408	**0.407**
Rural Principle Arterial	0.474	0.443	0.419	0.442	**0.445**	0.245	0.229	0.226	0.238	**0.235**
Rural Minor Arterial	0.442	0.411	0.39	0.413	**0.414**	0.237	0.22	0.217	0.23	**0.226**
Rural Major Collector	0.414	0.382	0.363	0.388	**0.387**	0.23	0.212	0.209	0.223	**0.219**
Rural Minimal Collector	0.413	0.381	0.363	0.387	**0.386**	0.228	0.211	0.209	0.222	**0.218**
Rural Local	0.411	0.38	0.361	0.385	**0.384**	0.228	0.211	0.208	0.221	**0.217**
Urban Interstate	0.682	0.648	0.606	0.633	**0.642**	0.326	0.308	0.301	0.316	**0.313**
Urban Freeway	0.504	0.469	0.443	0.47	**0.472**	0.265	0.246	0.241	0.257	**0.252**
Urban Principle Arterial	0.4	0.37	0.353	0.375	**0.375**	0.225	0.209	0.208	0.219	**0.215**
Urban Minimal Arterial	0.372	0.342	0.327	0.35	**0.348**	0.214	0.198	0.197	0.208	**0.204**
Urban Collector	0.365	0.334	0.32	0.343	**0.341**	0.212	0.196	0.195	0.206	**0.202**
Urban Local	0.386	0.355	0.34	0.362	**0.361**	0.218	0.202	0.2	0.212	**0.208**

VMT Adjustment Factors	**Non-Local**	**Local**		
	1.0000	1.0000		
Year	**2002**	**2010**	**2020**	**2030**
		Model VMT		
Urban Functional Classification				
Interstate	377,471	412,170	441,688	478,952
Freeway	178,202	310,155	430,629	521,814
Other P-A	250,941	229,418	217,259	229,488
Minor Arterial	253,627	321,016	354,838	439,805
Collector	56,933	59,280	54,406	75,514
Local	130,018	143,342	153,300	180,760
Total Urban	1,247,191	1,475,381	1,652,118	1,926,333
Rural Functional Classification				
Interstate	0	-	0	0
Other P-A	0	-	0	0
Minor Arterial	42,095	41,886	41,604	54,910
Major Collector	63,803	70,211	73,470	86,531
Minor Collector	43,597	56,354	52,543	86,311
Local	79,118	105,340	110,710	145,316
Total Rural	228,612	273,790	278,327	373,067
	2002	**2010**	**2020**	**2030**
Grand Totals	**1,475,804**	**1,749,171**	**1,930,445**	**2,299,400**
		Normalized VMT		
Urban Functional Classification				
Interstate	377,471	412,170	441,688	478,952
Freeway	178,202	310,155	430,629	521,814
Other P-A	250,941	229,418	217,259	229,488
Minor Arterial	253,627	321,016	354,838	439,805
Collector	56,933	59,280	54,406	75,514
Local	130,018	143,342	153,300	180,760
Urban Total	1,247,192	1,475,381	1,652,120	1,926,333
Rural Functional Classification				
Interstate	0	0	0	0
Other P-A	0	0	0	0
Minor Arterial	42,095	41,886	41,604	54,910
Major Collector	63,803	70,211	73,470	86,531
Minor Collector	43,597	56,354	52,543	86,311
Local	79,118	105,340	110,710	145,316
Rural Total	228,613	273,791	278,327	373,068
	2002	**2010**	**2020**	**2030**
Grand Totals	**1,475,805**	**1,749,172**	**1,930,447**	**2,299,401**

Assumed Speed

Year	2002	2010	2020	2030
Urban Functional Classification				
Interstate	60	60	60	60
Freeway	55	55	55	55
Other P-A	30	29	29	28
Minor Arterial	31	34	34	34
Collector	32	32	31	32
Local	33	31	30	31
Rural Functional Classification				
Interstate	0	0	0	0
Other P-A	0	0	0	0
Minor Arterial	40	39	39	38
Major Collector	43	43	43	43
Minor Collector	42	42	42	42
Local	44	45	45	45

Percent of Vehicles Subject to I&M in Each Analysis Year

2002	2010	2020	2030
0	0.95	0.95	0.95

Year of Analysis = 2002

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		0.00%	100.00%			
Urban Functional Classification	**Speed**					
Interstate	60	4.410	4.410	4.410	377,471	1,664.65
Freeway	55	3.037	3.037	3.037	178,202	541.20
Other P-A	30	2.166	2.166	2.166	250,941	543.54
Minor Arterial	31	1.957	1.957	1.957	253,627	496.35
Collector	32	1.880	1.880	1.880	56,933	107.03
Local	33	2.072	2.072	2.072	130,018	269.40
				Total Urban	1,247,192	3,622.16
Rural Functional Classification	**Speed**					
Interstate	0	-	-	0.000	0	0.00
Other P-A	0	-	-	0.000	0	0.00
Minor Arterial	40	2.505	2.505	2.505	42,095	105.45
Major Collector	43	2.286	2.286	2.286	63,803	145.85
Minor Collector	42	2.291	2.291	2.291	43,597	99.88
Local	44	2.301	2.301	2.301	79,118	182.05
				Total Rural	228,613	533.23

Total Normalized VMT for this Analysis Year=	1,475,804	Total NO_X Emissions (Kilograms per Day)	4,155.00

Year of Analysis =	**2010**	**Emissions Factors with I&M**	**Emissions Factors without I&M**	**Composite Emissions Rate**	**Vehicle Miles of Travel**	**KG of Emissions per Day**
Functional Classification	**Percent of Vehicles Subject to I&M**	95.00%	5.00%			
Urban Functional Classification	**Speed**					
Interstate	60	1.989	2.087	1.994	412,170	821.87
Freeway	55	1.381	1.487	1.387	310,155	430.18
Other P-A	29	1.031	1.139	1.036	229,418	237.68
Minor Arterial	34	0.926	1.035	0.931	321,016	298.87
Collector	32	0.898	1.009	0.903	59,280	53.53
Local	31	0.986	1.095	0.991	143,342	142.05
				Total Urban	1,475,381	1,984.18
Rural Functional Classification						
Interstate	0	0.000	0.000	0.000	0	0.00
Other P-A	0	0.000	0.000	0.000	0	0.00
Minor Arterial	39	1.172	1.275	1.177	41,886	49.30
Major Collector	43	1.087	1.193	1.092	70,211	76.67
Minor Collector	42	1.084	1.191	1.090	56,354	61.43
Local	45	1.098	1.205	1.103	105,340	116.19
				Total Rural	273,791	303.59

Total Normalized VMT for this Analysis Year=	1,749,172	Total NO_X Emissions (Kilograms per Day)	2,288.00

Year of Analysis =	**2010**	**Emissions Factors with I&M**	**Emissions Factors without I&M**	**Composite Emissions Rate**	**Vehicle Miles of Travel**	**KG of Emissions per Day**
Functional Classification	**Percent of Vehicles Subject to I&M**	95.00%	5.00%			
Urban Functional Classification	**Speed**					
Interstate	60	1.989	2.087	1.994	412,170	821.87
Freeway	55	1.381	1.487	1.387	310,155	430.18
Other P-A	29	1.031	1.139	1.036	229,418	237.68
Minor Arterial	34	0.926	1.035	0.931	321,016	298.87
Collector	32	0.898	1.009	0.903	59,280	53.53
Local	31	0.986	1.095	0.991	143,342	142.05
				Total Urban	1,475,381	1,984.18
Rural Functional Classification						
Interstate	0	0.000	0.000	0.000	0	0.00
Other P-A	0	0.000	0.000	0.000	0	0.00
Minor Arterial	39	1.172	1.275	1.177	41,886	49.30
Major Collector	43	1.087	1.193	1.092	70,211	76.67
Minor Collector	42	1.084	1.191	1.090	56,354	61.43
Local	45	1.098	1.205	1.103	105,340	116.19
				Total Rural	273,791	303.59

Total Normalized VMT for this Analysis Year=	1,749,172	Total NO_X Emissions (Kilograms per Day)	2,288.00

Year of Analysis = 2020

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		95.00%	5.00%			
Urban Functional Classification	**Speed**					
Interstate	60	0.613	0.764	0.620	441,688	273.85
Freeway	55	0.464	0.627	0.472	430,629	203.26
Other P-A	29	0.372	0.530	0.380	217,259	82.56
Minor Arterial	34	0.346	0.511	0.354	354,838	125.61
Collector	31	0.341	0.514	0.349	54,406	18.99
Local	30	0.362	0.544	0.371	153,300	56.87
				Total Urban	1,652,120	761.14
Rural Functional Classification	**Speed**					
Interstate	0	0.000	0.000	0.000	0	0.00
Other P-A	0	0.000	0.000	0.000	0	0.00
Minor Arterial	39	0.404	0.558	0.412	41,604	17.14
Major Collector	43	0.387	0.549	0.395	73,470	29.02
Minor Collector	42	0.386	0.550	0.394	52,543	20.70
Local	45	0.391	0.554	0.399	110,710	44.17
				Total Rural	278,327	111.04

Total Normalized VMT for this Analysis Year=	1,930,447	Total NO_X Emissions (Kilograms per Day)	872.17

Year of Analysis = 2020

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		95.00%	5.00%			
Urban Functional Classification	**Speed**					
Interstate	60	0.613	0.764	0.620	441,688	273.85
Freeway	55	0.464	0.627	0.472	430,629	203.26
Other P-A	29	0.372	0.530	0.380	217,259	82.56
Minor Arterial	34	0.346	0.511	0.354	354,838	125.61
Collector	31	0.341	0.514	0.349	54,406	18.99
Local	30	0.362	0.544	0.371	153,300	56.87
				Total Urban	1,652,120	761.14
Rural Functional Classification	**Speed**					
Interstate	0	0.000	0.000	0.000	0	0.00
Other P-A	0	0.000	0.000	0.000	0	0.00
Minor Arterial	39	0.404	0.558	0.412	41,604	17.14
Major Collector	43	0.387	0.549	0.395	73,470	29.02
Minor Collector	42	0.386	0.550	0.394	52,543	20.70
Local	45	0.391	0.554	0.399	110,710	44.17
				Total Rural	278,327	111.04

Total Normalized VMT for this Analysis Year=	1,930,447	Total NO_X Emissions (Kilograms per Day)	872.17

Year of Analysis = 2020

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		95.00%	5.00%			
Urban Functional Classification	**Speed**					
Interstate	60	0.613	0.764	0.620	441,688	273.85
Freeway	55	0.464	0.627	0.472	430,629	203.26
Other P-A	29	0.372	0.530	0.380	217,259	82.56
Minor Arterial	34	0.346	0.511	0.354	354,838	125.61
Collector	31	0.341	0.514	0.349	54,406	18.99
Local	30	0.362	0.544	0.371	153,300	56.87
				Total Urban	1,652,120	761.14
Rural Functional Classification	**Speed**					
Interstate	0	0.000	0.000	0.000	0	0.00
Other P-A	0	0.000	0.000	0.000	0	0.00
Minor Arterial	39	0.404	0.558	0.412	41,604	17.14
Major Collector	43	0.387	0.549	0.395	73,470	29.02
Minor Collector	42	0.386	0.550	0.394	52,543	20.70
Local	45	0.391	0.554	0.399	110,710	44.17
				Total Rural	278,327	111.04

Total Normalized VMT for this Analysis Year=	1,930,447	Total NO_X Emissions (Kilograms per Day)	872.17

Year of Analysis = 2002

		Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
Functional Classification	**Percent of Vehicles Subject to I&M**	0.00%	100.00%			
Urban Functional Classification	**Speed**					
Interstate	60	0.070	0.070	0.070	377,471	26.42
Freeway	55	0.049	0.049	0.049	178,202	8.73
Other P-A	30	0.042	0.042	0.042	250,941	10.54
Minor Arterial	31	0.035	0.035	0.035	253,627	8.88
Collector	32	0.032	0.032	0.032	56,933	1.82
Local	33	0.039	0.039	0.039	130,018	5.07
				Total Urban	1,247,192	61.46
Rural Functional Classification	**Speed**					
Interstate	0	0.000	0.000	0.000	0	0.00
Other P-A	0	0.000	0.000	0.000	0	0.00
Minor Arterial	40	0.052	0.052	0.052	42,095	2.19
Major Collector	43	0.043	0.043	0.043	63,803	2.74
Minor Collector	42	0.044	0.044	0.044	43,597	1.92
Local	44	0.043	0.043	0.043	79,118	3.40
				Total Rural	228,613	10.25

Total Normalized VMT for this Analysis Year=	1,475,805	Total VOC Emissions (Kilograms per Day)	72.00

Year of Analysis = 2010

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		95.00%	5.00%			
Urban Functional Classification	**Speed**					
Interstate	60	0.034	0.034	0.034	412,170	14.01
Freeway	55	0.025	0.025	0.025	310,155	7.75
Other P-A	29	0.022	0.022	0.022	229,418	5.05
Minor Arterial	34	0.019	0.019	0.019	321,016	6.10
Collector	32	0.018	0.018	0.018	59,280	1.07
Local	31	0.021	0.021	0.021	143,342	3.01
				Total Urban	1,475,381	36.99
Rural Functional Classification						
Interstate	0	0.000	0.000	0.000	0	0.00
Other P-A	0	0.000	0.000	0.000	0	0.00
Minor Arterial	39	0.026	0.026	0.026	41,886	1.09
Major Collector	43	0.023	0.023	0.023	70,211	1.61
Minor Collector	42	0.023	0.023	0.023	56,354	1.30
Local	45	0.023	0.023	0.023	105,340	2.42
				Total Rural	273,791	6.42

Total Normalized VMT for this Analysis Year=	1,749,172	Total VOC Emissions (Kilograms per Day)	43.00

Year of Analysis = 2020

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		95.00%	5.00%			
Urban Functional Classification	**Speed**					
Interstate	60	0.017	0.017	0.017	441,688	7.51
Freeway	55	0.015	0.015	0.015	430,629	6.46
Other P-A	29	0.014	0.014	0.014	217,259	3.04
Minor Arterial	34	0.013	0.013	0.013	354,838	4.61
Collector	31	0.013	0.013	0.013	54,406	0.71
Local	30	0.014	0.014	0.014	153,300	2.15
				Total Urban	1,652,120	24.48
Rural Functional Classification	**Speed**					
Interstate	0	0.000	0.000	0.000	0	0.00
Other P-A	0	0.000	0.000	0.000	0	0.00
Minor Arterial	39	0.015	0.015	0.015	41,604	0.62
Major Collector	43	0.014	0.014	0.014	73,470	1.03
Minor Collector	42	0.014	0.014	0.014	52,543	0.74
Local	45	0.014	0.014	0.014	110,710	1.55
				Total Rural	278,327	3.94

Total Normalized VMT for this Analysis Year=	1,930,447	Total Emissions (Kilograms per Day)	28.41

Year of Analysis = 2030

Functional Classification	Percent of Vehicles Subject to I&M	Emissions Factors with I&M	Emissions Factors without I&M	Composite Emissions Rate	Vehicle Miles of Travel	KG of Emissions per Day
		95.00%	5.00%			
Urban Functional Classification	**Speed**					
Interstate	60	0.015	0.015	0.015	478,952	7.18
Freeway	55	0.014	0.014	0.014	521,814	7.31
Other P-A	28	0.013	0.013	0.013	229,488	2.98
Minor Arterial	34	0.013	0.013	0.013	439,805	5.72
Collector	32	0.012	0.012	0.012	75,514	0.91
Local	31	0.013	0.013	0.013	180,760	2.35
				Total Urban	1,926,333	26.45
Rural Functioanl Classification	**Speed**					
Interstate	0	0.000	0.000	0.000	0	0.00
Other P-A	0	0.000	0.000	0.000	0	0.00
Minor Arterial	38	0.014	0.014	0.014	54,910	0.77
Major Collector	43	0.013	0.013	0.013	86,531	1.12
Minor Collector	42	0.013	0.013	0.013	86,311	1.12
Local	45	0.013	0.013	0.013	145,316	1.89
				Total Rural	373,068	4.90

Total Normalized VMT for this Analysis Year=	2,299,401	Total Emissions (Kilograms per Day)	31.35

PM2.5 (KG/Day) Comparison Table			
Analysis Year	**Model(Urban)** [2]	**Spreadsheet(Rural)**	**Comparison Amount**
2002	**72**	**163**	235
2010	**43**	**94**	137
2020	**28**	**59**	88
2030	**31**	**62**	93

NOx (KG/Day)Comparison Table			
Analysis Year	**Model(Urban)**	**Spreadsheet(Rural)**	**Comparison Amount**
2002	**4,155**	**9523**	13,678
2010	**2,288**	**5116**	7,404
2020	**872**	**1953**	2,825
2030	**565**	**1164**	1,728

Appendix I: Public Participation Policies

Greensboro Urban Area Metropolitan Planning Organization

Public Involvement Plan Revision: January 31, 2001

Adopting the Metropolitan Transportation Improvement Program

Background
The Metropolitan Planning Organization (MPO) will produce a Metropolitan Transportation Improvement Program (MTIP) that meets applicable federal and state requirements. The MTIP will be developed cooperatively with NCDOT and the Transit Operator. The components of an MTIP will be kept on file by the Lead Planning Agency. The Lead Planning Agency will be responsible for addressing the questions of any person or group making inquiries regarding the MTIP during and following the MTIP development process.

Public Review Policy
The Technical Coordinating Committee (TCC) and Transportation Advisory Committee (TAC) will review the draft MTIP. The TAC will release the document for a public review period of at least 30 calendar days prior to adopting the MTIP. The provisions that follow may be supplemented with additional outreach and public involvement strategies at the discretion of the MPO.

1. **Public notice** inviting written comments will be made. This notice will (1) identify a due date for comments, and a contact for questions or additional information; and (2) list locations where the draft MTIP is available for review and directions for submitting comments, except where space limitations permit only the information in item 1 to be displayed. Public notice will be given through the media outlets listed below. Targeted mailings, other advertising outlets, and additional outreach strategies may also be used.
   - Major newspaper display ads at least two display ads will be run in different weeks in each major paper (including major newspapers serving minority communities) during the public review period;
   - Local access cable television advertisements on the City's Channel 13 will be run throughout the public review period;
   - Notice placed on the website of the Lead Planning Agency throughout the public review period; and
   - A press release to area media outlets made by the Lead Planning Agency at or prior to the commencement of the public review period.

2. **MTIP documents** for public review will be distributed to the following locations:
   - Area offices and libraries: City Clerk's Office, County Commissioners Office, GDOT Office, NCDOT Division 7 Office, Greensboro Transit Authority Office, NC A&TSU Library or Student Union, UNCG Library, all Greensboro Public Library Branches; and
   - The website of the Lead Planning Agency will post the MTIP documents for public review.

3. A public meeting will be held during or prior to the aforementioned public review period. The meeting will provide information and the opportunity to make written and oral comments. If the public meeting precedes the public review period, then the public notice shall use the same media outlets as the public review period. One display ad per major

newspaper will suffice, and website and local access cable television notices will be run for at least a week prior to the meeting.

4. Public comments received through the public involvement process will be documented and presented to the TCC and TAC at or prior to the meeting of adoption for the MTIP in summary form or verbatim at the Lead Planning Agency's discretion. Responses to public comments will be included as appropriate. When the comments received are deemed sufficiently significant, a summary and a statement of the disposition of the comments will documented and be provided with the final MTIP document to FHWA, FTA, and NCDOT, and made available to other parties upon request or as otherwise appropriate.

5. **Additional strategies for informing and involving low income and minority communities** will be used in addition to measures listed above that contribute to this objective such as newspaper advertising and the availability of documents in all Greensboro Branch Libraries. At a minimum, these will include targeted mailings to the transit operator's community organizations mailing list. Additional strategies will be tested, documented, and evaluated for inclusion in future Public Involvement Plan updates.

Amending the Metropolitan Transportation Improvement Program and Long Range Transportation Plan

Background

Periodically, amendments or updates to the Metropolitan Transportation Improvement Program (MTIP) and the Long Range Transportation Plan are needed. These amendments or updates will be made to meet applicable federal and state requirements and will be developed cooperatively with NCDOT and the Transit Operator. Such materials will be kept on file by the Lead Planning Agency. The Lead Planning Agency will be responsible for addressing the questions of any person or group making inquiries regarding the amendments.

Public Review Policy

The Technical Coordinating Committee (TCC) and Transportation Advisory Committee (TAC) will review the draft amendment(s). For Major Amendments, the TAC will release the document(s) for a public review period of at least 30 calendar days prior to adoption. A public review period will not be necessary for Minor Amendments, but may be held at the discretion of the MPO. Major amendments will typically include additional conformity analysis and/or other significant changes to highway capacity projects or transit programs. Minor Amendments typically include (1) the addition, deletion, or rescheduling of projects classified as exempt from air quality analysis such as safety projects, individual transit projects short of major expansions of the transit fleet, and (2) project schedule changes on regionally significant projects not requiring a shift of horizon years.

Greensboro Urban Area Metropolitan Planning Organization

Public Involvement Plan Revision: January 31, 2001

The following public involvement provisions may be supplemented with additional measures. MTIP and LRTP amendments and updates have the same public involvement requirements as adopting the MTIP with the following exceptions:

- One display ad per major newspaper at a minimum will suffice; and
- Public meeting(s) are at the discretion of the TCC Chair and/or TAC Chair.

Amending the Public Involvement Plan

Revisions to the Public Involvement Plan have the same public notice requirements as a Major MTIP Amendment, except that the minimum public review period will be 45 calendar days.

PUBLIC PARTICIPATION POLICY
FOR ALL TRANSPORTATION PLANS
AND
THE AIR QUALITY CONFORMITY ANALYSIS REPORT

The Winston-Salem Urban Area Metropolitan Planning Organization has a commitment to public participation for all transportation plans and air quality conformity analysis reports. The MPO will adhere to the regulations set forth by the Transportation Equity Act of the 21st Century (TEA-21) which requires all MPOs to demonstrate explicit consideration and response to public input received during the planning and program development processes. The public participation process will provide early and continuing involvement; full public access to citizens, public agencies, providers of private transportation, and segments of the community affected by transportation plans; and clear, accurate, and timely information.

The Technical Coordinating Committee (TCC) and Transportation Advisory Committee (TAC) will review all transportation plans. The TAC will then release the plan for a public review period of at least 30 calendar days effective from the date the public notice is published in at least two newspapers of general circulation. The Public Review process will include but is not limited to the following provisions.

1. A Public Notice shall be prepared and advertised in the State or Local section, or a comparable section of the daily and weekly newspapers within the Metropolitan Area Boundary. The notice will include a due date for written comments, a contact person for questions or additional information and a location of meetings or where documents may be reviewed. Public Notice shall also be placed on the website of the Lead Planning Agency, and may also be given through targeted mailings. Other media also may be used, such as, local radio and television, City of Winston-Salem cable access channel, and the City of Winston-Salem Marketing and Communications Department publications.

2. Copies of the draft transportation documents, plans, and reports shall be distributed to the TCC, TAC, each jurisdiction and other convenient locations for public review and comment. Translation services will be available for Spanish speakers. Written comments on documents may be mailed, e-mailed, or faxed to the Secretary of the TAC or the assigned contact person listed in the public notice. Comments will be documented and presented to the TCC and TAC at or prior to the meeting for adoption.

3. All requests for appropriate auxiliary aids, services and transportation to attend meetings, review documents, and make comments shall be made to the City of Winston-Salem Department of Transportation at least 10 days prior to the meeting date or end of the public review period.

4. The public involvement process shall be reviewed periodically, or at least every 3 years, concurrent with the update of the Long Range Transportation Plan (LRTP) for effectiveness in allowing full and open access to all; consistent with Title VI of the Civil Rights Act and the Americans with Disabilities Act of 1990. The Winston-Salem Urban Area Public Participation Policy was certified by FHWA during the triennial review in August of 2004.

LONG RANGE TRANSPORTATION PLAN PROCESS

The Winston-Salem Urban Area Metropolitan Planning Organization began a public review of the existing 2025 Multi-Modal Long Range Transportation Plan (LRTP) on May 24, 2004. The MPO newsletter announcing the update of the LRTP and Thoroughfare Plan was developed in both English and Spanish and mailed to neighborhood associations, churches, various minority and civic groups or organizations, as well as individuals in transportation or transportation related businesses asking to review and comment on the existing LRTP document. This announcement was also placed in local newspapers of Winston-Salem and Forsyth County asking citizens to comment on the existing document, which was available in all Public Libraries, Town Halls, City/County Planning Board, and Winston-Salem Department of Transportation. A public review period of 30 days followed in which the Winston-Salem DOT accepted written comments from citizens on the existing LRTP. At the conclusion of the review period, all comments received by the Winston-Salem DOT were documented and reviewed by the TCC and TAC to determine any major issues or concerns that needed to be addressed. The MPO Newsletter, the advertisement published in all local newspapers and a summary of the comments from the 2002 document is in the Appendix.

The Winston-Salem DOT and City/County Planning Board staff reviewed each section of the existing LRTP and all information including each transportation mode was updated to reflect the changes that have occurred since the development of the LRTP adopted in February 2002.

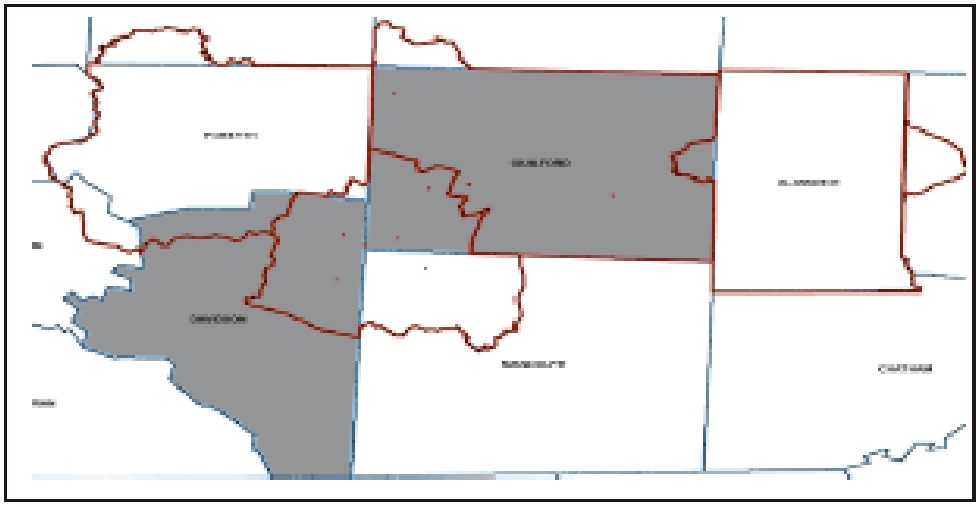
In February of 2005, a final Draft 2030 LRTP document was produced, copies were made and delivered to each library, Town Hall and members of the TCC and TAC for review. In addition, the document was available on the City of Winston-Salem website: cityofws.org/DOT/projects. An MPO Newsletter was mailed to neighborhood associations, churches, various minority and civic groups, individuals associated with transportation, and transportation related businesses announcing the availability of the 2030 LRTP for public review. The announcement was also placed in the local newspapers of Winston-Salem and the surroundings. The final Draft was presented to the TAC in February 2005. There was a 30-day public review period for the final Draft LRTP document in late February and March of 2005.

The Draft LRTP document including public comments will be presented to the TAC on March 31, 2005.

Final copies of the document will be sent to State and Federal agencies for their review and approval by April 15, 2005.

Appendix J: Public Advertisements, Comments, and Responses

There were no public comments were received on the Triad PM 2.5 Air Quality Conformity Analysis Report



Do You Live in the Gray Area?

Let us hear from you.

The Piedmont Authority for Regional Transportation (PART) in cooperation with the Piedmont Triad's Metropolitan Planning Organizations in Burlington-Graham, Greensboro, High Point, Winston-Salem; and the North Carolina Department of Transportation are seeking public review and comment on the Triad areas PM2.5 Air Quality Conformity Analysis Report and Conformity Determination.

This document has details about the highway and transit network, and air quality emissions for each of the horizon years in all four of the Metropolitan Planning Organization planning boundaries of Guilford and Davidson Counties.

The document can be reviewed online at www.partnc.org or at the following locations:

- Public Libraries in Alamance, Davidson, Guilford, and Forsyth Counties
- Municipal Town Halls
- NCDOT Division 7 office at 1584 Yanceyville Street, Greensboro
- NCDOT Division 9 office at 375 Silas Creek Parkway, Winston-Salem
- Burlington Planning Department, Municipal Bldg., 425 S. Lexington
- Greensboro DOT, Melvin Municipal Bldg., 300 West Washington St.
- Guilford County Commissioner's Office
- NC A&T and UNCG Libraries
- High Point DOT, 211 South Hamilton St.
- City of Winston-Salem DOT, Suite 307, City Hall South, 100 E. First St.
- PART, 7800 Airport Center Dr., Suite 102, Greensboro, NC 27409

ONLY WRITTEN COMMENTS WILL BE ACCEPTED UNTIL JANUARY 13, 2006 AT 5:00 P.M.
Written comments may be mailed, emailed or faxed to:
Scott Rhine, Piedmont Authority for Regional Transportation ,7800 Airport Center Drive, Suite 102, Greensboro, NC 27409
E-mail: scottr@partnc.org Fax: (336) 662-9253 Phone: (336) 662-0002
All request for appropriate auxiliary aids and services to review and comment on the documents should be made to Scott Rhine.

Appendix K: Agency Comments

Division of Air Quality(DAQ)
Comments: Triad PM2.5 Conformity Analysis

Overall, I found the report very comprehensive and well written. Emission calculation worksheets were previously reviewed and all comments addressed. Therefore, all comments below are of a formatting or context nature. DAQ supports a finding of Conformity for PM2.5 for the Triad Non-Attainment Area.

Page 1, Overview:
The first sentence of the second paragraph refers to the above section. The paragraph break there does not make sense. Consider making the break after this first sentence. **AGREED**

Page 1, Overview:
Consider changing the date format from 4/5/05 and 4/5/06 to April 5, 2005 and April 5, 2006 respectively. **AGREED**

Page 6, Tables 2 and 3:
Correct table so that grid lines are uniform. **AGREED**

Page 13, section 2, last sentence:
Font size seems smaller. Shouldn't this sentence be part of the preceding paragraph? **AGREED**

Page 13, section 2.1, first sentence:
Strike the word "the", sentence should read, "…interim emissions tests for ~~the~~ PM2.5 and NOx." **AGREED**

Page 13, section 3, second sentence:
Consider using either "…a transportation plan…" or "…transportation plans…"**AGREED**

Page 16, Table 6:
The incorrect word was used. For Burlington-Graham MPO it should read, "…in 2030 LRTP or its TIP subset." The word should be possessive, not a contraction. **AGREED**

Page 16, Table 7:
See above comment. It should be "its", not "it's." **AGREED**

Page 20, section 3.12.5:
Add some white space between the start of this section and the preceding table. **AGREED**

Page 27, tables 15 & 16:
Ensure that gridlines are uniform. **AGREED**

Page 29, table 17:
Grid lines do not match up on the bottom portion of the table. This needs to be corrected. **AGREED**

Federal Highway Administration
FHWA Comments on the Draft Triad PM 2.5 CDR
1/10/06

General Comments:

- Make sure that the Table of contents and the page numbers referenced are correct **AGREED**
- Make sure that Table 4 Cross Reference Index and the page numbers that are referenced is correct **AGREED**
- Make sure that the table references in the document are correct **AGREED**
- Make sure that the appendices referenced in the document are correct **AGREED**
- Make sure that all adopting resolutions and conformity determinations are included as an appendix in the final conformity determination report . **AGREED**

Specific Comments:

- Table of contents, page iii, last title, replace "implementation" with "improvement" **AGREED**
- Page iv, List of Appendices, D10, replace "rural" with "donut" **AGREED**
- Page 2, The Decision Process, item e, replace "rural" with "donut" **AGREED**
- Page 4, Executive Summary, 4th sentence, replace "form" with "from" **AGREED**
- Page 5, Table 1, replace "Rural portion of Davidson County " with "Donut portion of Davidson County " **AGREED**
- Page 6, Table 2, replace "Rural portion" with "Donut portion" **AGREED**
- Table 4, page 7, Cross reference index, replace "pp. 28 with "p. 28" **AGREED**
- Table 4, page 7, Cross reference index, replace "Analysis of rural area projects " with "Analysis of donut area projects"**AGREED**
- Page 9, last paragraph, remove the citation for 23 CFR 134. **AGREED**
- On page 10, Section 3.3 Latest Planning Assumptions. The date of 10/27/05 was the date that the conformity analysis began. Add a sentence to the document that this date was defined through interagency consultation and the conformity process schedule in Appendix C. **Change & Addition has been made.**
- Page 12, middle of page, 5th bullet, replace "Rural Portion of Davidson County…… " with "Donut Portion of Davidson County……. " **AGREED**
- Page 12, 3rd paragraph, last sentence, replace "rural" with "donut" **AGREED**
- Page 12, last paragraph, 1st paragraph, replace "rural" with "donut" **AGREED**
- Page 13, Section 2, AQ Planning, 2nd sentence, replace "December 17, 2004" with "January 5, 2005". **AGREED**
- Page 13, Section 2.1, Emission Budget and Emission Baseline, 2nd sentence, remove "and found adequate or adopted by USEPA". **AGREED**
- Page 14, Section 3.2, FC Assumptions, 4th sentence, remove "and those anticipated in the draft 2007-2013 TIP". **AGREED**
- Page 14, Section 3.2, FC Assumptions, 4th sentence, replace "MPO" with "MPO's". **AGREED**
- Page 16, Table 6, replace "Rural…." with "Donut….." **AGREED**

- Page 16, Table 7, replace "Rural…." with "Donut….." **AGREED**
- Page 18, Section 3.11, Method of Reporting VMT and Speed, 3rd paragraph, should "Appendix F" be "Appendix F & H" **AGREED**
- Page 18, Section 3.12, 1st paragraph, second sentence, replace "rural" with "donut" **AGREED**
- Page 18, Section 3.12, 1st paragraph, should "Appendices A & B " be "Appendix F "**AGREED**
- Page 18, Section 3.12, 1st paragraph, 6th sentence, replace "rural" with "donut" **AGREED**
- Page 18, Section 3.12, 3rd paragraph, 1st sentence, replace "rural" with "donut" **AGREED**
- Page 19, 1st paragraph, should "Appendix E " be "Appendix C"**AGREED**
- Page 19, Section 3.12.1, should "Appendix C " be "Appendix D"**AGREED**
- Page 19, Section 3.12.2, should "Appendix B " be "Appendix H"**AGREED**
- Page 20, 1st paragraph, should "Table 1 " be "Table 8"**AGREED**
- Page 20, Section 3.12.5, should "Table 2 " be "Table 9"**AGREED**
- Page 20, Section 3.12.5, The description of emission factor development provided by NCDENR is not in Appendix A and I did not see it provided in any of the appendices. **AGREED**
- Page 22, Section 3.12.7, should "Table 4 " be "Table 10"**AGREED**
- Page 22, Section 3.12.8, should "Table 5 " be "Table 11"**AGREED**
- Page 24, Footnote 1, replace "in place of areas with" with "since" **AGREED**
- Page 24, Footnote 1, replace "budget" with "budgets" **AGREED**
- Page 24, Footnote 1, replace "budget" with "budgets are" **AGREED**
- Page 25, Section 4.2, should "Table 9 " be "Table 13"**AGREED**
- Page 26, Section 4.5, 3rd paragraph, 5th bullet, replace "Rural…." with "Donut….." **AGREED**
- Page 26, Section 4.5, should "Table 8 " be "Table 12"**AGREED**
- Page 26, Section 4.5, should "Table 10 " be "Table 12"**AGREED**
- Page 26, Table 14, under location Guilford County, remove NCDOT from conformity finding responsibility. **AGREED**
- Page 26, Add Section 4.6 Comparison Test by Location and Pollution. Place this after the sentence " There is no TCMs pertaining to the Triad Area" **AGREED**
- Page 27, Table 15, replace "Rural…." with "Donut….." **AGREED**
- Replace what is currently in Appendix D with the project lists by MPO and horizon year (HY) out of the 2030 LRTPs for Appendix D., i.e., **AGREED**
    - project list by HY out of the Greensboro 2030 LRTP
    - project list by HY out of the WSF 2030 LRTP
    - project list by HY out of the HP 2030 LRTP
    - project list by HY out of the BG MPO 2030 LRTP (assuming there are any projects in the Guilford County area of the BG MPO)
    - projects out of the FY 2006-2012 TIP for the donut area of Davidson County
    - Exempt projects
- The appendix B Federal Register notice is not needed **AGREED**
- For Appendix A show the complete Federal Register notice including only the NC listing of NA areas. You are currently only showing the listing of NC NA projects. **AGREED**
- After the conformity report text there is a duplication of some of the appendices, please eliminate the duplication. **AGREED**
- Need to provide the date (for each MPO) that the TAC adopted the Socioeconomic data in section 3.3 (Latest Planning Assumptions) of the CDR. **AGREED**

FHWA Follow-up Comments on the Draft Triad PM 2.5 CDR
1/18/06

General Comments:

- ***(I left this on the list because this has not happened yet)*** Make sure that all adopting resolutions and conformity determinations are included as an appendix in the final conformity determination report . **AGREED**

Specific Comments:

- Provide a Listing of the Tables in the document. Either make this a new page or include it in the table of contents **AGREED**
- Add Section 4.6 Comparison Test by Location and Pollutant to the Table of Contents **AGREED**
- Page 6, Table 2, replace "Rural portion" with "Donut portion" **AGREED**
- On page 14, Section 3.3 Latest Planning Assumptions. 1st paragraph, remove "On October 27, 200" **AGREED**
- On page 14, Section 3.3 Latest Planning Assumptions. Add the following sentence to this section "The conformity analysis began on 10/27/05. This date was defined through interagency consultation process and documented in the conformity process schedule provided in Appendix C". **AGREED**
- Page 19, Section 3.12.2, second sentence, replace "rural" with "donut" **AGREED**
- Page 26, Section 4.5, should "Table 10 " be "Table 14"**AGREED**
- Page 27, Table 15, replace "Rural…." with "Donut….." *(See NOx Column)* **AGREED**
- *(I left this on the list because I have not seen the correction)* Replace what is currently in Appendix D with the project lists by MPO and horizon year (HY) out of the 2030 LRTPs for Appendix D., i.e., **AGREED**
    - project list by HY out of the Greensboro 2030 LRTP
    - project list by HY out of the WSF 2030 LRTP
    - project list by HY out of the HP 2030 LRTP
    - project list by HY out of the BG MPO 2030 LRTP (assuming there are any projects in the Guilford County area of the BG MPO)
    - projects out of the FY 2006-2012 TIP for the donut area of Davidson County
    - Exempt projects -**Exempt projects will be listed after each MPO's project list.**
- *(I left this on the list because I have not seen the correction)* The appendix B Federal Register notice is not needed **AGREED**
- *(I left this on the list because I have not seen the correction)* For Appendix A show the complete Federal Register notice including only the NC listing of NA areas. You are currently only showing the listing of NC NA projects. **AGREED**
- *(I left this on the list because I have not seen the correction)* After the conformity report text there is a duplication of some of the appendices, please eliminate the duplication. **AGREED**
- Need to provide the date (for each MPO) that the TAC adopted the Socioeconomic data in section 3.3 (Latest Planning Assumptions) of the CDR. **Will provide in the Final Report**

Subject: Environmental Protection Agency (EPA)
Comments on the Triad Area Draft CDR

Corrections:

1. . In Table 15, Davidson County Emissions Comparison Summary, under the 2020 County total for PM2.5 the correct value should be 87 not 88.

Response: The 2020 County total for PM2.5 is 87.74 Kg and it was correctly rounded to 88.

2. Also in this table, the 2030 County total for NOx should be 1729 not 1728.

Response: The 2030 County total for NOx is 1,728.45 Kg and it was correctly rounded to 1,728.

3. In Table 16, Guilford County Emissions Comparison Summary, under the 2030 Comparison total for NOx the total should be 5064 not 5063.

Response: The 2030 County total for NOx is 5,063.34 Kg and it was correctly rounded to 5,063.

Emissions:

1. On pg. 134, the M 49 warning values should be 1.0

Response: This response is generated by Mobile6.2 model and it implies that the model is normalizing Vehicle Age Distribution supplied by the users in order to achieve a summation of 1.00. This rounding is about 0.001 (plus or minus) and is neglegible.

2. On pg. 134 does the data file: C:\2005PM\GUILFORD\IDLE.D reflect the fact that OBD is the only test that will be utilized in 2006?

Response: That is correct. OBD is the only test being applied in Guilford County as of January 2006.

In regards to the LRTP projects section, we also have some comments regarding several of the projects:

3. Please reorganize the Burlington-Graham MPO LRTP, the Greensboro Urban Area MPO LRTP, the High-Point Urban Area MPO LRTP, and the Winston-Salem Urban Area MPO LRTP. It appears as though there are several pages missing. **AGREED**

4. In the Non-Regionally Significant Projects for the Guilford and Davidson County Areas (Federal) table for the 2005-2014 Greensboro Urban Area MPO section the existing laneage was missing for the following projects: U-4006,Turner-Smith road extension to Eckerson Road, Bryan Boulevard extension, Hornaday road to Chimney Rock Road, Reedy Fork Service Road, and Turner Smith Road Extension. **These Projects are future projects (yet to be constructed) and no existing laneage applies.**

5. In the Non-Regionally Significant Projects for the Guilford and Davidson County Area (Federal) table for the 2021-2030 Winston-Salem Urban Area MPO section the mileage value is listed as the existing laneage. **CORRECTED**

6. In the Regionally Significant Projects (Federal and Non Federal) for the Guilford and Davidson County Areas table for the 2005-2014 Greensboro Urban Area MPO section the following projects do not have existing laneage listed: u-2524, R-2413,U-2913, and U-2525. **These Projects are future projects (yet to be constructed) and no existing laneage applies.**

I'm looking forward to reviewing the TIP and the final conformity document when they come in.

Amanetta Wood

Comments from Greensboro MPO

The report looks good and it was a tremendous help. I did review and had the following comments.

1. Page 4: Typo 'form' 'from' **CORRECTED**
2. Page 5: 3rd paragraph, 'These LRTPs have three analysis years: 2010, 2020, and 2030.' I believe the analysis year **AGREED**
3. should be 2014 instead of 2010. It looks like 2010 was use for the air quality analysis, but 2014 was used for the LRTP. **That's correct. Transportation model years are 2002, 2004, 2014, 2020 and 2030. Air Quality Analysis years are 2002, 2010, 2020, and 2030. Year 2010 transportation data derived by interpolation.**
4. I am not sure, but maybe there should be a note to this effect. **AGREED**
5. Page 7: Some of the page numbers were off in Table 4 #4,pg. 13(12), #5,pg. 13(12), #6,pg. 27(28), #9,pg. 24 (22), **AGREED**
6. #10,pg.26(23), #11,pg.28(27), and #13,pg.29(28). **AGREED**
7. Page 15: Similar to page 5, 3.4- has sentence midway down 'The base network (2002) and the three future networks **AGREED**
8. (2010, 2020, and 2030) used for the conformity determination are the same as the network used for the 2030 Long Range Transportation Plans.' The network used for air quality analysis was 2010, but 2014 in LRTP.**Again clarification on Transportation model years and Air Quality analysis years is needed.**
9. Page 15: Last sentence on page Did not know if the 'and' between County and within should be deleted. **AGREED**
10. Page 17: 3.8, last sentence in paragraph should it be (2004, 2014, 2020, and 2030) **AGREED**
11. Appendix: The LRTP Horizon spreadsheets were out of order. Page 10 did is not updated with Market Street removed as exempt. **AGREED-Market Street will be removed from the exempt list and added the non-exempt project in its appropriate year.**
12. I attached our public involvement policy and will for the resolutions together. But I was not sure what the Triad Region. Transportation Implementation Plan resolution is. Let me know if you have any questions **Thank you. Your policy will be added in the appropriate appendix. "Implementation"plan will be changed to "Improvement" plan.**

Thanks
Lydia M. McIntyre, Greensboro MPO

MPO Reply to EPA Comments
Triad PM2.5 Review of Regional Significant and Exempt Projects
10/24/05

For the Bridge replacement projects, please consider including Current and existing laneage as opposed to "N/A" since there may be some instances where a bridge replacement may not necessarily be considered exempt (i.e., when the number of lanes change).

5 MPO Reply: For bridge replacement projects we do not include current and existing lanes because a bridge replacement project is just that "bridge replacement" there are no additional lanes that will be added to these type projects.

* For completeness of information for review, please provide more description in the exempt projects list with regard to the number of existing and future lanes.

6 MPO Reply: We will work to incorporate these suggestions when we do our next LRTP update due in 10/2007.

* During our review, we were unable to determine the status of the following projects on the exempt list because existing laneage was not available:

High Point Urban Area:
U-3336
7 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

U-4017
8 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt
9
U-3615B
10 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt
11
U-3432
12 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt
13
U-4420
14 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

U-3433

15 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

16

Additional High Point Urban Area projects with the following descriptions:

HORIZON YEAR	TIP #	CITY	LOC./DESC.
2020	n/a	Trinity	Finch Farm Road, from Interstate 85 to Trinity city limits, Widening to a multi-lane facility.

17 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

2020	n/a	Thomasville	Julian Avenue extension, from north of East Guilford Street to Unity Street, Extend a four lane facility.

18 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

2020	n/a	Thomasville	MLK Dr./ Jacobs St. extension/ Business 85 interchange, Construction of a new interchange.

19 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

```
|       2020      |   n/a  |Trinity             | Mendenhall
Rd./Mendenhall Rd. |
|                 |        |                    | Ext. realignment,
Realign both|
|                 |        |                    | roadways so that the
existing |
|                 |        |                    | offset is eliminated
|
|-----------------+--------+--------------------+---------------------
```

20 MPO Reply: This project is exempt. This project does not add any additional lanes/capacity. This project involves realigning the roadways to eliminate an offset.

```
|       2020      |   n/a  |Trinity/ Thomasville| E. Sunrise Avenue
extension,  |
|                 |        |                    | from County Line Road
to Unity|
|                 |        |                    | Street.
|
|-----------------+--------+--------------------+---------------------
```

21 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

```
|       2030      |   n/a  |Thomasville         | Holly Hill Road
Connector,    |
|                 |        |                    | from West Holly Hill
Rd to    |
|                 |        |                    | Baptist Childrens
Home
Road,  |
|                 |        |                    | New 2-lane facility.
|
|-----------------+--------+--------------------+---------------------
```

22 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

```
|       2030      |   n/a  |Archdale            | NC 62, from US 311 to
Trinity |
|                 |        |                    | Rd., Widening to
three
lanes. |
|-----------------+--------+--------------------+---------------------
```

23 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

```
|       2030      |   n/a  |Thomasville         | NC 109, from
Interstate 85 to |
|                 |        |                    | NC 47, Widen to
multi-lane    |
|                 |        |                    | facility.
|
|-----------------+--------+--------------------+----------------------
```

24 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

```
|       2030      |   n/a  |Thomasville         | Southern Loop, from
existing  |
|                 |        |                    | Johnsontown Rd. to
Finch Farm |
|                 |        |                    | Rd., New 2-lane
facility.     |
|-----------------+--------+--------------------+----------------------
```

25 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

```
|       2030      |   n/a  |Trinity             | Surrett Drive, from
Eden      |
|                 |        |                    | Terrace to Interstate
85,     |
|                 |        |                    | Widening to
multi-lanes.      |
|-----------------+--------+--------------------+----------------------
```

26 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

```
|       2030      |   n/a  |Trinity             | Uwharrie Road
extension, from |
|                 |        |                    | Uwharrie Rd. to
Surrett Dr.,  |
|                 |        |                    | Multi-lane extension
on new   |
|                 |        |                    | location.
|
|-----------------+--------+--------------------+----------------------
```

27 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

```
|       2030      |   n/a  |Davidson County     | Wallburg/ High Point
Road,    |
```

```
|                 |        |                    | from West Lexington
Avenue to |
|                 |        |                    | NC 109, Widening to a
|
|                 |        |                    | multi-lane facility.
|
|                 |        |                    |*
|
|-----------------+--------+--------------------+---------------------
```

28 MPO Reply: The wrong exempt project list was initially provided. The correct (latest version) exempt project list shows that this project is not exempt

29

```
Greensboro MPO Area: The East Market Street projects
decreases in laneage from 6 lanes to four lanes. This is not
an exempt project.
```

30 MPO Reply:

Response: This project is a "streetscape" project. The six lanes in this project consisted of 4 lanes and 2 turn lanes. This project eliminated the 2 turn lanes and replaced them with a median. We believe this project meets the definition of an exempt project per 40 CFR 93.126 and 93.127.

Subject: **Reminder: EPA/FHWA PM2.5 Training Session for Guilford, Davidson and Catawba**
Date: Sun, 24 Apr 2005 17:21:37 -0400
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>,
"Barren, Loretta" <Loretta.Barren@fhwa.dot.gov>,
"Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Craig Hughes \(E-mail\)" <craig.hughes@ci.high-point.nc.us>,
"Dan Thomas \(E-mail\)" <danthomas@dot.state.nc.us>,
"Gregory Errett \(E-mail\)" <GREGE@cityofws.org>,
"Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>,
"Harkrader, Bob \(E-mail\)" <bharkrader@ci.burlington.nc.us>,
"John C Marshall \(E-mail\)" <john.marshall@wpcog.org>,
"John Tippett \(E-mail\)" <john.tippett@wpcog.org>,
"Laura Boothe \(E-mail\)" <laura.boothe@ncmail.net>,
"Linh Nguyen \(E-mail\)" <lnguyen@dot.state.nc.us>,
"Marc Allred \(E-mail\)" <mallred@nwpcog.org>,
"Marley, Bill" <Bill.Marley@fhwa.dot.gov>,
"Matt Laurita \(E-mail\)" <Laurita.Matthew@epamail.epa.gov>,
"Mike Abraczinskas \(E-mail\)" <michael.abraczinskas@ncmail.net>,
"Mike Nunn \(E-mail\)" <mnunn@mblsolution.com>,
"Monica Kerr \(E-mail\)" <mkerr@dot.state.nc.us>,
"Nicole Hay \(E-mail\)" <nhay@nwpcog.org>,
"Phil Conrad \(E-mail\)" <pconrad@mblsolution.com>,
"Stevens, Joseph" <Joseph.Stevens@fhwa.dot.gov>,
"Tyler Meyers \(E-mail\)" <tyler.meyer@ci.greensboro.nc.us>,
"Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Wayne Davis \(E-mail\)" <wcdavis@dot.state.nc.us>,
"Wendy Miller \(E-mail\)" <wendym@cityofws.org>,
"Williams, Beverly \(E-mail\)" <bevwilliams@dot.state.nc.us>,
"Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>,
"Jamal Alavi \(E-mail\)" <jalavi@dot.state.nc.us>,
"Scott Rhine \(E-mail\)" <scottr@partnc.org>,
"Heather Hildebrandt \(E-mail\)" <heather.hildebrandt@ncmail.net>,
"Van Sullivan \(E-mail\)" <sullivvk@forsyth.cc>,
"Patrick Reagan \(E-mail\)" <reaganpa@co.forsyth.nc.us>,
"Alena Cook \(E-mail\)" <arcook@dot.state.nc.us>
CC: "Davis, Veronica" <Veronica.Davis@fhwa.dot.gov>

Please mark your calendars.....

What: EPA/FHWA PM2.5 Training Session for Guilford, Davidson and Catawba & Planning Meeting for the kick-off Interagency Consultation (IC) Meeting
When: May 11, 2005, 9:00am-4:00pm.
Location: ECPI Training Facility, Room number is 179, near the PART office, Greensboro NC
We also have a planning meeting for the kick-off IC meeting that we will need to have in the June/July timeframe. This meeting will take about an hour and it will be part of the agenda at the end of the day once the training session is complete.

We will develop a course agenda and provide it to you by next week.

Directions are as follows: From I-40, exit on Hwy.68/ PTI Airport (exit #210) Travel north on Hwy.68 toward PTI Airport, and exit onto Bryan Blvd. First traffic signal turn left onto N. Regional Rd. On Regional Rd. turn left at first traffic signal (Airport Center Drive.) On Airport Center Dr. make a right at the first driveway. ECPI College of Technology is located at 7801 Airport Center Dr.; single story brick building.
If you have any questions, please let me know.
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

> -----Original Message-----
> From: Dancausse, Edward
> Sent: Monday, April 11, 2005 10:08 AM
> To: Dancausse, Edward; Barren, Loretta; Behshad Norowzi (E-mail); Craig Hughes (E-mail); Dan Thomas (E-mail); Gregory Errett (E-mail); Hanna Cockburn (E-mail); Harkrader, Bob (E-mail); John C Marshall (E-mail); John Tippett (E-mail); Laura Boothe (E-mail); Linh Nguyen (E-mail); Marc Allred (E-mail); Marley, Bill; Matt Laurita (E-mail); Mike Abraczinskas (E-mail); Mike Nunn (E-mail); Monica Kerr (E-mail); Nicole Hay (E-mail); Phil Conrad (E-mail); Stevens, Joseph; Tyler Meyers (E-mail); Upchurch, James (E-mail); Wayne Davis (E-mail); Wendy Miller (E-mail); Williams, Beverly (E-mail); Wilner, Marcus; Jamal Alavi (E-mail); Scott Rhine (E-mail); Heather Hildebrandt (E-mail); Van Sullivan (E-mail); Patrick Reagan (E-mail)
> Cc: Davis, Veronica
> Subject: EPA/FHWA PM2.5 Training Session for Guilford, Davidson and Catawba
>
> Please mark your calendars.....
>
> What: EPA/FHWA PM2.5 Training Session for Guilford, Davidson and Catawba
> When: May 11, 2005, 9:00am-3:00pm.
> Location: ECPI Training Facility, near the PART office, Greensboro NC
>
> More details will follow (i.e.,like directions to the training facility, course agenda, etc.)
>
> If you have any questions, please let me know.
>
> Thanks
> Eddie
>
> Edward J. Dancausse
> Air Quality Specialist
> FHWA NC Division
> 919-856-4330 x112
> 919-856-4353(fax)
> edward.dancausse@fhwa.dot.gov
> www.fhwa.dot.gov/ncdiv/
>
>
> -----Original Message-----
> From: Dancausse, Edward
> Sent: Monday, April 04, 2005 12:43 PM
> To: Barren, Loretta; Behshad Norowzi (E-mail); Craig Hughes (E-mail); Dan Thomas (E-mail); Dancausse, Edward; Gregory Errett (E-mail); Hanna Cockburn (E-mail); Harkrader, Bob (E-mail); John C Marshall (E-mail); John Tippett (E-mail); Laura Boothe (E-mail); Linh Nguyen (E-mail); Marc Allred (E-mail); Marley, Bill; Matt Laurita (E-mail); Mike Abraczinskas (E-mail); Mike Nunn (E-mail); Monica Kerr (E-mail); Nicole Hay (E-mail); Phil Conrad (E-mail); Stevens, Joseph; Tyler Meyers (E-mail); Upchurch, James (E-mail); Wayne Davis (E-mail); Wendy Miller (E-mail); Williams, Beverly (E-mail); Wilner, Marcus

> Cc: Davis, Veronica
> Subject: EPA/FHWA PM2.5 Training Session for Guilford, Davidson and Catawba
>
> I am in the process of planning the EPA/FHWA PM2.5 training session for Guilford, Davidson and Catawba. The dates that are currently being considered are 4/20, 5/3, 5/10, and 5/11. The training session will be a one day event. Please let me know which days work for you.>
>
> Thanks
> Eddie
>
>
>
> Edward J. Dancausse
> Air Quality Specialist
> FHWA NC Division
> 919-856-4330 x112
> 919-856-4353(fax)
> edward.dancausse@fhwa.dot.gov
> www.fhwa.dot.gov/ncdiv/
>
>

Subject: **Triad PM2.5 NA Area PM2.5 Conformity Followup Planning Session**
Date: Thu, 19 May 2005 14:11:10 -0400
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "Cary Gentry \(E-mail\)" <gentrycd@forsyth.cc>,
"Craig Hughes \(E-mail\)" <craig.hughes@ci.high-point.nc.us>,
"Gregory Errett \(E-mail\)" <GREGE@cityofws.org>,
"Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>,
"Lydia McIntyre \(E-mail\)" <lydia.mcintyre@ci.greensboro.nc.us>,
"Mike Nunn \(E-mail\)" <mnunn@mblsolution.com>,
"Patrick Reagan \(E-mail\)" <reaganpa@co.forsyth.nc.us>,
"Peggy Holland \(E-mail\)" <peggy.holland@ci.greensboro.nc.us>,
"Scott Rhine \(E-mail\)" <scottr@partnc.org>,
"Tyler Meyers \(E-mail\)" <tyler.meyer@ci.greensboro.nc.us>,
"Wendy Miller \(E-mail\)" <wendym@cityofws.org>,
"Alena Cook \(E-mail\)" <arcook@dot.state.nc.us>,
"Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Dan Thomas \(E-mail\)" <danthomas@dot.state.nc.us>,
"Jamal Alavi \(E-mail\)" <jalavi@dot.state.nc.us>,
"Marley, Bill" <Bill.Marley@fhwa.dot.gov>,
"Michael Abuya \(E-mail\)" <mrabuya@dot.state.nc.us>,
"Monica Kerr \(E-mail\)" <mkerr@dot.state.nc.us>,
"Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Wayne Davis \(E-mail\)" <wcdavis@dot.state.nc.us>
CC: "Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>,
"Barren, Loretta" <Loretta.Barren@fhwa.dot.gov>

Scott.

Some of the Triad Area partners have expressed an interest in having a meeting to further discuss the Triad Area PM2.5 conformity process roles and responsibilities. This meeting needs to take place in the near future. Other topics for discussion are the date for kickoff IC meeting and associated work tasks that need to take place prior to the meeting.

The following dates are currently free on my calendar: June 2,3,7 & 8.

The PART facility might be a good location for the meeting.

Check and see what dates might be convenient for the Triad partners and notify them of the meeting date and location.

If you have any questions or need any assistance, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: RE: Triad PM2.5 NA Area PM2.5 Conformity Followup Planning Session
Date: Thu, 19 May 2005 14:18:01 -0400
From: "Hanna Cockburn" <hcockburn@ptcog.org>
To: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>,
"Cary Gentry \(E-mail\)" <gentrycd@forsyth.cc>,
"Craig Hughes \(E-mail\)" <craig.hughes@ci.high-point.nc.us>,
"Gregory Errett \(E-mail\)" <GREGE@cityofws.org>,
"Lydia McIntyre \(E-mail\)" <lydia.mcintyre@ci.greensboro.nc.us>,
"Mike Nunn \(E-mail\)" <mnunn@mblsolution.com>,
"Patrick Reagan \(E-mail\)" <reaganpa@co.forsyth.nc.us>,
"Peggy Holland \(E-mail\)" <peggy.holland@ci.greensboro.nc.us>,
"Scott Rhine \(E-mail\)" <scottr@partnc.org>,
"Tyler Meyers \(E-mail\)" <tyler.meyer@ci.greensboro.nc.us>,
"Wendy Miller \(E-mail\)" <wendym@cityofws.org>,
"Alena Cook \(E-mail\)" <arcook@dot.state.nc.us>,
"Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Dan Thomas \(E-mail\)" <danthomas@dot.state.nc.us>,
"Jamal Alavi \(E-mail\)" <jalavi@dot.state.nc.us>,
"Marley, Bill" <Bill.Marley@fhwa.dot.gov>,
"Michael Abuya \(E-mail\)" <mrabuya@dot.state.nc.us>,
"Monica Kerr \(E-mail\)" <mkerr@dot.state.nc.us>,
"Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Wayne Davis \(E-mail\)" <wcdavis@dot.state.nc.us>
CC: "Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>,
"Barren, Loretta" <Loretta.Barren@fhwa.dot.gov>

June 2 is the PM 2.5 model improvement meeting in Mocksville... The 7-8
I will be participating in the CTP integration workshops with NCDOT in
Raleigh, so the 3rd is looking pretty good for me at the moment!

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Thursday, May 19, 2005 2:11 PM
To: Cary Gentry (E-mail); Craig Hughes (E-mail); Gregory Errett
(E-mail); Hanna Cockburn; Lydia McIntyre (E-mail); Mike Nunn (E-mail);
Patrick Reagan (E-mail); Peggy Holland (E-mail); Scott Rhine (E-mail);
Tyler Meyers (E-mail); Wendy Miller (E-mail); Alena Cook (E-mail);
Behshad Norowzi (E-mail); Dan Thomas (E-mail); Jamal Alavi (E-mail);
Marley, Bill; Michael Abuya (E-mail); Monica Kerr (E-mail); Upchurch,
James (E-mail); Wayne Davis (E-mail)
Cc: Wilner, Marcus; Barren, Loretta
Subject: Triad PM2.5 NA Area PM2.5 Conformity Followup Planning Session

Scott.

Some of the Triad Area partners have expressed an interest in having a
meeting to further discuss the Triad Area PM2.5 conformity process roles
and responsibilities. This meeting needs to take place in the near
future. Other topics for discussion are the date for kickoff IC meeting
and associated work tasks that need to take place prior to the meeting.

The following dates are currently free on my calendar: June 2,3,7 & 8.

The PART facility might be a good location for the meeting.

Check and see what dates might be convenient for the Triad partners and

notify them of the meeting date and location.

If you have any questions or need any assistance, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: RE: Triad PM2.5 NA Area PM2.5 Conformity Followup Planning Session
Date: Fri, 20 May 2005 08:45:08 -0400
From: "Scott Rhine" <scottr@partnc.org>
To: "'Dancausse, Edward'" <Edward.Dancausse@fhwa.dot.gov>,
"'Cary Gentry \(E-mail\)'" <gentrycd@forsyth.cc>,
"'Craig Hughes \(E-mail\)'" <craig.hughes@ci.high-point.nc.us>,
"'Gregory Errett \(E-mail\)'" <GREGE@cityofws.org>,
"'Hanna Cockburn \(E-mail\)'" <hcockburn@ptcog.org>,
"'Lydia McIntyre \(E-mail\)'" <lydia.mcintyre@ci.greensboro.nc.us>,
"'Mike Nunn \(E-mail\)'" <mnunn@mblsolution.com>,
"'Patrick Reagan \(E-mail\)'" <reaganpa@co.forsyth.nc.us>,
"'Peggy Holland \(E-mail\)'" <peggy.holland@ci.greensboro.nc.us>,
"'Tyler Meyers \(E-mail\)'" <tyler.meyer@ci.greensboro.nc.us>,
"'Wendy Miller \(E-mail\)'" <wendym@cityofws.org>,
"'Alena Cook \(E-mail\)'" <arcook@dot.state.nc.us>,
"'Behshad Norowzi \(E-mail\)'" <bnorowzi@dot.state.nc.us>,
"'Dan Thomas \(E-mail\)'" <danthomas@dot.state.nc.us>,
"'Jamal Alavi \(E-mail\)'" <jalavi@dot.state.nc.us>,
"'Marley, Bill'" <Bill.Marley@fhwa.dot.gov>,
"'Michael Abuya \(E-mail\)'" <mrabuya@dot.state.nc.us>,
"'Monica Kerr \(E-mail\)'" <mkerr@dot.state.nc.us>,
"'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>,
"'Wayne Davis \(E-mail\)'" <wcdavis@dot.state.nc.us>
CC: "'Wilner, Marcus'" <Marcus.Wilner@fhwa.dot.gov>,
"'Barren, Loretta'" <Loretta.Barren@fhwa.dot.gov>

Thanks Eddie for helping to get this notice out to all of our partners. I have heard from some of you already on the dates that would be best for your schedule. If everyone else would let me know your dates of availability (listed below), I will notify you all of the date that fits best with the majority of attendees. Thanks, and have a great day!
Scott Rhine

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Thursday, May 19, 2005 2:11 PM
To: Cary Gentry (E-mail); Craig Hughes (E-mail); Gregory Errett (E-mail); Hanna Cockburn (E-mail); Lydia McIntyre (E-mail); Mike Nunn (E-mail); Patrick Reagan (E-mail); Peggy Holland (E-mail); Scott Rhine (E-mail); Tyler Meyers (E-mail); Wendy Miller (E-mail); Alena Cook (E-mail); Behshad Norowzi (E-mail); Dan Thomas (E-mail); Jamal Alavi (E-mail); Marley, Bill; Michael Abuya (E-mail); Monica Kerr (E-mail); Upchurch, James (E-mail); Wayne Davis (E-mail)
Cc: Wilner, Marcus; Barren, Loretta
Subject: Triad PM2.5 NA Area PM2.5 Conformity Followup Planning Session

Scott.

Some of the Triad Area partners have expressed an interest in having a meeting to further discuss the Triad Area PM2.5 conformity process roles and responsibilities. This meeting needs to take place in the near future. Other topics for discussion are the date for kickoff IC meeting and associated work tasks that need to take place prior to the meeting.

The following dates are currently free on my calendar: June 2,3,7 & 8.

The PART facility might be a good location for the meeting.

Check and see what dates might be convenient for the Triad partners and notify them of the meeting date and location.

If you have any questions or need any assistance, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: **NC Transportation Conformity Status/Schedule and Transportation Conformity IC Task Timeline 2005/2006**
Date: Tue, 5 Jul 2005 16:41:20 -0400
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "Adam Snipes \(E-mail\)" <asnipes@dot.state.nc.us>,
"Alena Cook \(E-mail\)" <arcook@dot.state.nc.us>,
"Anna Meares \(E-mail\)" <apmeares@dot.state.nc.us>,
"Chandler, Vicki" <Vicki.chandler@ncmail.net>,
"Ellen Beckmann \(E-mail\)" <ebeckmann@dot.state.nc.us>,
"Hildebrandt, Heather" <heather.hildebrandt@ncmail.net>,
"Holman, Sheila" <Sheila.Holman@ncmail.net>,
"Hutchings, Debi" <dhutchings@dot.state.nc.us>,
"Jamal Alavi \(E-mail\)" <jalavi@dot.state.nc.us>,
"Jonathan Parker \(E-mail\)" <jhparker@dot.state.nc.us>,
"Katherine English \(E-mail\)" <kenglish@dot.state.nc.us>,
"Laura Boothe \(E-mail\)" <laura.boothe@ncmail.net>,
"Linda Dosse \(E-mail\)" <ldosse@dot.state.nc.us>,
"Lydia McIntyre \(E-mail\)" <lydia.mcintyre@ci.greensboro.nc.us>,
"Mike Abraczinskas \(E-mail\)" <michael.abraczinskas@ncmail.net>,
"Mike Bruff \(E-mail\)" <mbruff@dot.state.nc.us>,
"Monica Kerr \(E-mail\)" <mkerr@dot.state.nc.us>,
"Norowzi, Behshad" <bnorowzi@dot.state.nc.us>,
"Orr, Mike \(E-mail\)" <mlorr@dot.state.nc.us>,
"Pat Bello \(E-mail\)" <Pat.Bello@ncmail.net>,
"Phyllis Jones \(E-mail\)" <Phyllis.D.Jones@ncmail.net>,
"Sarah Smith \(E-mail\)" <sarahsmith@dot.state.nc.us>,
"Shannon Ransom \(E-mail\)" <sransom@dot.state.nc.us>,
"Tamra Shaw \(E-mail\)" <tshaw@dot.state.nc.us>,
"Terry Arellano \(E-mail\)" <tarellano@dot.state.nc.us>,
"Thomas, Dan" <danthomas@dot.state.nc.us>,
"Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Walker, Steve" <swalker@dot.state.nc.us>,
"Wayne Davis \(E-mail\)" <wcdavis@dot.state.nc.us>,
"A R Sharp Jr" <asharp@centralina.org>, "Ann Whitley" <awhitley@ucpcog.org>,
"Beverly Williams" <bevwilliams@dot.state.nc.us>,
"Bill Eaker \(E-mail\)" <bill@landofsky.org>, "Bill Gibson" <bill@regiona.org>,
"Billy Leggett" <brleggett@msn.com>, "Chris May" <cmay@capefearcog.org>,
"Chris Rountree" <rountreec@halifaxnc.com>,
"Dana Stoogenke \(E-mail\)" <dstoogenke@mccog.org>,
"David Baird \(E-mail\)" <dbaird@regiond.org>, "Dee Freeman" <deefree@tjcog.org>,
"Don Eggert" <deggert@capefearcog.org>,
"Earlene Thomas" <ewthomas@dot.state.nc.us>,
"Faye Lewis \(E-mail\)" <flewis@mccog.org>,
"Gene Foxworth \(E-mail\)" <GFoxworth@mideastcom.org>,
"Geraldine Dumas" <gdumas@kerrtarcog.org>, "Greg Godard" <ggodard@ucpcog.org>,
"Gregory Christo \(E-mail\)" <gchristo@regionc.org>,
"Hanna Cockburn" <hcockburn@ptcog.org>,

"Jake Gilmer \(E-mail\)" <jake@landofsky.org>,
"James A Daughtry" <jdaughtry@eccog.org>,
"James Caldwell" <jcaldwell@fayetteville.net>,
"Janet Robertson" <jfr@mail.lrcog.dst.nc.us>,
"Jim Stokoe \(E-mail\)" <jim@landofsky.org>,
"Joe McKinney" <jmckinney@landofsky.org>,
"John C Marshall" <john.marshall@wpcog.org>,
"John Hodges-Copple" <johnhc@tjcog.org>, "Joseph Dooley" <JDooley@mideastcom.org>,
"Judy Hills" <jhills@eccog.org>, "Karen Roberson" <kroberson@dot.state.nc.us>,
"Kay Rose" <bkr27944@yahoo.com>, "Kurt Freitag \(E-mail\)" <kfreitag@dot.state.nc.us>,
"Linh Nguyen" <lnguyen@dot.state.nc.us>,
"Marc Allred \(E-mail\)" <mallred@nwpcog.org>,
"Matt Roark \(E-mail\)" <matt@regiona.org>,
"Matthew Dolge" <mdolge@nwpcog.dst.nc.us>, "Neil Mallory" <nmallory@kerrtarcog.org>,
"Nicole Hay \(E-mail\)" <nhay@nwpcog.org>, "Pat Strong \(E-mail\)" <pstrong@tjcog.org>,
"Paul Black \(E-mail\)" <pblack@ucpcog.org>, "Paul Hughes" <phughes@regionc.org>,
"Paul Kron" <pkron@ptcog.org>, "Phillip Trew" <ptrew@regiond.org>,
"Randy Billings" <rbillings@ptcog.org>,
"Rebecca Yarbrough" <ryarbrough@centralina.org>,
"Shelby Powell" <spowell@kerrtarcog.org>, "Tim Ware" <tware@mideastcom.org>,
"Walston, Scott \(E-mail\)" <walston@dot.state.nc.us>,
"Xiao-dan Qiu" <Xqiu@centralina.org>,
"Andy Grzymski \(E-mail\)" <agrzymski@ci.charlotte.nc.us>,
"Baechtold, Dan" <DanB@mail.ci.asheville.nc.us>,
"Chapman, Maurizia \(E-mail\)" <mchapman@co.cumberland.nc.us>,
"Conrad, Phil" <pconrad@mblsolution.com>,
"Craig Hughes \(E-mail\)" <craig.hughes@ci.high-point.nc.us>,
"D. Best \(E-mail\)" <dbest@ci.goldsboro.nc.us>,
"Ed Johnson \(E-mail\)" <Ed.Johnson@ci.raleigh.nc.us>,
"Eldewins Haynes \(E-mail\)" <ehaynes@ci.charlotte.nc.us>,
"Errett, Gregory" <GREGE@cityofws.org>,
"Hank Graham \(E-mail\)" <hankg@cityofgastonia.com>,
"Harkrader, Bob" <bharkrader@ci.burlington.nc.us>,
"Heicksen, Rick" <rheicksen@co.cumberland.nc.us>,
"Janique Evans \(E-mail\)" <jevans@co.cumberland.nc.us>,
"Jason Thompson \(E-mail\)" <jasont@cityofgastonia.com>,
"Kenneth Withrow \(E-mail\)" <Kenneth.Withrow@ci.raleigh.nc.us>,
"Lakesha Dunbar \(E-mail\)" <lakeshad@cityofws.org>,
"League, Bob" <league@ci.rocky-mount.nc.us>,
"mcdonald, david \(E-mail\)" <dmcdonald@ci.charlotte.nc.us>,
"Meyer, Tyler" <tyler.meyer@ci.greensboro.nc.us>,
"Nunn, Mike" <mnunn@mblsolution.com>, "Nwoko, Felix" <fnwoko@ci.durham.nc.us>,
"Peggy Holland \(E-mail\)" <peggy.holland@ci.greensboro.nc.us>,
"Robert Cook \(E-mail\)" <rwcook@ci.charlotte.nc.us>,
"Rogers, Danny" <drogers@ci.charlotte.nc.us>,
"Rogers, Rhonda" <rrogers@ci.jacksonville.nc.us>,
"Sovich, Jeff" <jeffrey.sovich@ci.greensboro.nc.us>,
"Tim Gibbs \(E-mail\)" <tgibbs@ci.charlotte.nc.us>,

"Timothy Joel Strickland \(E-mail\)" <tstrickland@co.cumberland.nc.us>,
"Tippett, John" <john.tippett@wpcog.org>,
"Tysinger, Tom" <ttysinger@ci.greenville.nc.us>,
"Wally Hansen \(E-mail\)" <whansen@ci.jacksonville.nc.us>,
"Amanetta Wood \(E-mail\)" <Wood.Amanetta@epamail.epa.gov>,
"Benjamin, Lynorae \(E-mail\)" <Benjamin.Lynorae@epamail.epa.gov>,
"powell, alan \(E-mail\)" <powell.alan@epa.gov>
CC: "NC-PPD" <NC-PPD@fhwa.dot.gov>, "NC-OPS" <NC-OPS@fhwa.dot.gov>,
"Sullivan, John" <John.Sullivan@fhwa.dot.gov>,
"Voelker, Don" <Don.Voelker@fhwa.dot.gov>

An updated (as of 7/2005) NC Transportation Conformity Status/Schedule and Transportation Conformity IC Task Timeline is provided in the attached files below.

If you have any questions, please let me know.

Thanks
Eddie

<<AQConformityStatus72005rev.xls>>
<<Transconformitytasks2005_2006.xls>>

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

>
>

AQConformityStatus72005rev.xls	**Name:** AQConformityStatus72005rev.xls **Type:** Microsoft Excel Worksheet (application/vnd.ms-excel) **Encoding:** base64 **Description:** AQConformityStatus72005rev.xls

Transconformitytasks2005_2006.xls	**Name:** Transconformitytasks2005_2006.xls **Type:** Microsoft Excel Worksheet (application/vnd.ms-excel) **Encoding:** base64 **Description:** Transconformitytasks2005_2006.xls

Subject: Triad IC PM2.5 Transportation Conformity Consensus Plan Meeting
Date: Wed, 8 Jun 2005 11:00:16 -0400
From: "Scott Rhine" <scottr@partnc.org>
To: <heather.hildebrandt@ncmail.net>, <michael.abraczinskas@ncmail.net>, <laura.boothe@ncmail.net>, <Alex.McNeil@fta.dot.gov>, <Benjamin.Lynorae@epamail.epa.gov>, <jalavi@dot.state.nc.us>, '"Mike Kozak"' <mkozak@dot.state.nc.us>
CC: <actaexec@bellsouth.net>, "Alena Cook" <arcook@dot.state.nc.us>, "Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>, "Bill Marley \(E-mail\)" <bill.marley@fhwa.dot.gov>, <burlmpo@ci.burlington.nc.us>, "Cary Gentry" <gentrycd@forsyth.cc>, '"Craig Hughes"' <craig.hughes@ci.high-point.nc.us>, <Edward.Dancausse@fhwa.dot.gov>, "Greg Errett" <grege@cityofws.org>, "Guy Cornman" <gcornman@co.davidson.nc.us>, "Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>, "James Upchurch \(E-mail\)" <jhupchurch@dot.state.nc.us>, "Lydia McIntyre" <lydia.mcintyre@greensboro.nc.us>, "Marcus Wilner" <marcus.wilner@fhwa.dot.gov>, "Michael Abuya" <mrabuya@dot.state.nc.us>, <mkerr@dot.state.nc.us>, "Patrick Reagan" <reaganpa@forsyth.cc>, "Phil Wylie" <Phil.Wylie@ci.high-point.nc.us>, <scottr@partnc.org.>, "Tyler Meyer" <tyler.meyer@ci.greensboro.nc.us>, '"Wayne Davis"' <wcdavis@dot.state.nc.us>, "Wendy Miller" <WENDYM@cityofws.org>

Greetings. The following dates are being presented to you for consideration in getting together to go over the Triad Regions Pre-Analysis Consensus plan for the Triad PM2.5 Transportation Conformity.

Our dates for consideration are: July 6, 7, 12, or 13.

Please respond to this email with your availability to each of these dates. The Consensus plan will be distributed prior to the meeting. If you have any questions, please don't hesitate to contact me at your convenience. Have a great day!

PART
piedmont authority for regional transportation

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102

Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

Subject: **Triad PM2.5 IC Meeting Material**
Date: Fri, 24 Jun 2005 13:57:18 -0400
From: "Scott Rhine" <scottr@partnc.org>
To: <wood.amanetta@epa.gov>, <Phyllis.D.Jones@ncmail.net>, <Pat.Bello@ncmail.net>, <Vicki.Chandler@ncmail.net>, "Alena Cook" <arcook@dot.state.nc.us>, "Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>, <Benjamin.Lynorae@epamail.epa.gov>, "Bill Marley \(E-mail\)" <bill.marley@fhwa.dot.gov>, <burlmpo@ci.burlington.nc.us>, "Cary Gentry" <gentrycd@forsyth.cc>, "'Craig Hughes'" <craig.hughes@ci.high-point.nc.us>, <Edward.Dancausse@fhwa.dot.gov>, "Greg Errett" <grege@cityofws.org>, "Guy Cornman" <gcornman@co.davidson.nc.us>, "Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>, "Heather Hildebrandt" <heather.hildebrandt@ncmail.net>, "'Holland, Peggy'" <Peggy.Holland@ci.greensboro.nc.us>, "James Upchurch \(E-mail\)" <jhupchurch@dot.state.nc.us>, <LAKESHAD@cityofws.org>, "Laura Boothe" <Laura.Boothe@ncmail.net>, "Lydia McIntyre" <lydia.mcintyre@greensboro.nc.us>, "Marcus Wilner" <marcus.wilner@fhwa.dot.gov>, "michael abraczinskas" <michael.abraczinskas@ncmail.net>, "Michael Abuya" <mrabuya@dot.state.nc.us>, <mkerr@dot.state.nc.us>, "Patrick Reagan" <reaganpa@forsyth.cc>, "Phil Wylie" <Phil.Wylie@ci.high-point.nc.us>, <scottr@partnc.org.>, "Tyler Meyer" <tyler.meyer@ci.greensboro.nc.us>, "'Wayne Davis'" <wcdavis@dot.state.nc.us>, "Wendy Miller" <WENDYM@cityofws.org>
CC: "'Brent McKinney'" <brentm@partnc.org>

Ladies, and gentlemen. Attached is our agenda, schedule, and consensus plan to be discussed at our upcoming IC meeting on July 12, 2005. For our partners in Atlanta, please take note of the video conference center assigned for your participation; listed on the agenda.

Thank you to all those that helped me pull all this information together. If you have any questions on the attached please don't hesitate to contact me at your convenience. Have a great day, and wonderful weekend.

PART
piedmont authority for regional transportation

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

Triad Region PM2 5 TCPCP.doc	**Name:** Triad Region PM2 5 TCPCP.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

PM 2 5 mtg agenda.doc	**Name:** PM 2 5 mtg agenda.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Triad-PM2.5 Schedule.pdf	**Name:** Triad-PM2.5 Schedule.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

Subject: **Draft Conformity Determination Report for the Winston Salem Forsyth MPO 2030 LRTP and 06-12 TIP**
Date: Wed, 22 Jun 2005 14:49:56 -0400
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "McNeil, Alex <FTA>" <Alex.McNeil@fta.dot.gov>,
"Amanetta Wood \(E-mail\)" <wood.amanetta@epa.gov>,
"Benjamin, Lynorae \(E-mail\)" <Benjamin.Lynorae@epamail.epa.gov>
CC: "Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>,
"Gregory Errett \(E-mail\)" <GREGE@cityofws.org>,
"Wendy Miller \(E-mail\)" <wendym@cityofws.org>,
"Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>

Amanetta/Alex/Lynorae,

Just wanted to let you know that we are sending the draft documents to you for review and comment via FEDEX. You should receive the documents by tomorrow. Please let me know when you receive them.

I have also sent you the final hard copy of the Triangle Area conformity determination report for your files.

If you have any questions or if you need additional documentation for your review, please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: **[Fwd: PM 2.5 Stakeholders meeting rescheduled]**
Date: Wed, 22 Jun 2005 09:12:07 -0400
From: Laura Boothe <Laura.Boothe@ncmail.net>
To: Thom Allen <Thom.Allen@NCMail.Net>, Katy Ansardi <kansardi@sustainnc.org>,
Sarav Arunachalam <sarav@unc.edu>, Tracy Beer <tbeer@duke-energy.com>,
Robert Bennick <bennink@ncuc.net>, Marc Bernstein <mbern@ncdoj.com>,
Dan Besse <danbesse@danbesse.org>, Phil Bisesi <phillip.bisesi@ncmail.net>,
Hoy Bohanon <bohanoneng@triad.rr.com>, Ginger Booker <Gbooker@ptcog.org>,
Ryan Boyles <ryan_boyles@ncsu.edu>, Pat Brewer <Pat.Brewer@ncmail.net>,
Charlie Carter <ccarter@mcnair.net>, Charles Case <ccase@hunton.com>,
Caroline Choi <caroline.choi@pgnmail.com>,
Jerry Coker <jerry.coker@weyerhaeuser.com>,
Vic Copelan <copelanvd@navair.navy.mil>, Hunter Copeland <info@nucor.com>,
Elise Cox <elise.cox@ncmail.net>, Molly Diggins <molly.diggins@sierraclub.org>,
Roy Ericson <ericson@ncuc.net>, George T Everett <gteverett@duke-energy.com>,
David Farren <dfarren@selcnc.org>, Robert Fisher <Robert.Fisher@ncmail.net>,
Ernie Fuller <Ernie.Fuller@ncmail.net>, Robert Fulp <fulprr@co.forsyth.nc.us>,
Derrick Hobson <Derrick.Hobson@pgnmail.com>, Andy Holland <andy_holland@unc.edu>,
Preston Howard <preston.howard@mcicnc.org>, Bill Jackson <bjackson02@fs.fed.us>,
Harvey Jeffries <harvey@unc.edu>, Allen Jernigan <ajern@mail.jus.state.nc.us>,
Mark Kirstner <MKIRSTN@co.guilford.nc.us>,
Kris Knudsen <kwknudse@duke-energy.com>,
"Edward J. Kreul" <Edward.Kreul1@ipaper.com>, Jim Kuszaj <jim@mcicnc.org>,
Thomas Lam <thomas.lam@ncmail.net>, Ward Lenz <wlenz@advancedenergy.org>,
Joan Liu <LIUCS@co.mecklenburg.nc.us>, Walter Martin <wemartin@email.uncc.edu>,
"John E.P. Morrison" <jmorriso@advancedenergy.org>,
Daniel Mottola <Daniel.Mottola@pgnmail.com>,
Marjorie Mulhall <marjorie@cleanenergy.org>, Paul Muller <Paul.Muller@ncmail.net>,
Amber Munger <epolicy@bellsouth.net>, Marily Nixon <mnixon@selcnc.org>,
Dan Oakley <dan.oakley@ncmail.net>, Cal Ogburn <calvin.ogburn@pgnmail.com>,
Pierson <mpierson@selcnc.org>, Melanie Pitrolo <pitrolm@co.buncombe.nc.us>,
Jane Preyer <jpreyer@ed.org>, Pat Reagan <reaganpa@co.forsyth.nc.us>,
Ulla Reeves <ulla@cleanenergy.org>, Michael Reid <Michael.Reid@pgnmail.com>,
Jim Renfro <Jim_Renfro@nps.gov>,
Rosalina Rodriguez <Rosalina.Rodriguez@ncmail.net>,
Elie H Saliba <ehsaliba@uncc.edu>, Renee Shealy <shealyrg@dhec.sc.gov>,
Larry Shirley <larry.shirley@ncmail.net>, Ross Smith <rsmith@pcsphosphate.com>,
David Stout <dstout@broyhillfurn.com>, Sharon Stroud <sharon.stroud@ncmail.net>,
Kris Thornburg <kthornburg@ed.org>, Cheryl Vetter <cheryl.vetter@pgnmail.com>,
Steven Vozzo <Steven.Vozzo@ncmail.net>,
"William H. Weatherspoon" <weatherspoonb@api.org>,
Myron Whitley <Myron.Whitley@ncmail.net>,
"Willard, Don" <WILLADR@co.mecklenburg.nc.us>,
Luanne Williams <luanne.wiilliams@ncmail.net>,
Kyle Woosley <kwoosley@brookspierce.com>,
Sheila Holman <Sheila.Holman@ncmail.net>, Mike Landis <Michael.Landis@ncmail.net>,
Mike Abraczinskas <michael.abraczinskas@ncmail.net>,

Jamal Alavi <alavi@dot.state.nc.us>, Terry Arellano <tarellano@dot.state.nc.us>,
Marc Allred <mallred@nwpcog.org>, Dan Baechtold <DanB@mail.ci.asheville.nc.us>,
David Baird <dbaird@regiond.org>, Ellen Beckmann <ebeckmann@dot.state.nc.us>,
Bello Patrick <pat_bello@ncair.net>, "D. Best" <dbest@ci.goldsboro.nc.us>,
Randy Billings <rbillings@ptcog.org>, Laura Boothe <Laura.Boothe@ncmail.net>,
Mike Bruff <mbruff@dot.state.nc.us>, James Caldwell <jcaldwell@fayetteville.net>,
Vicki Chandler <Vicki.Chandler@NCMail.Net>,
Maurizia Chapman <mchapman@co.cumberland.nc.us>,
Gregory Christo <gchristo@regionc.org>, Hanna Cockburn <hcockburn@ptcog.org>,
Phil Conrad <pconrad@mblsolution.com>, Robert Cook <rwcook@ci.charlotte.nc.us>,
Alena Cook <arcook@dot.state.nc.us>, Danny Rogers <drogers@ci.charlotte.nc.us>,
James A Daughtry <jdaughtry@eccog.org>, Matthew Dolge <mdolge@nwpcog.dst.nc.us>,
Joseph Dooley <JDooley@mideastcom.org>, Linda Dosse <ldosse@dot.state.nc.us>,
Geraldine Dumas <gdumas@kerrtarcog.org>, Lakesha Dunbar <lakeshad@cityofws.org>,
Bill Eaker <bill@landofsky.org>, Don Eggert <deggert@capefearcog.org>,
Katherine English <kenglish@dot.state.nc.us>, Gregory Errett <GREGE@cityofws.org>,
Katie Ertmer <kertmer@co.franklin.nc.us>,
Dana Etherton <EtherDL@co.mecklenburg.nc.us>,
Janique Evans <jevans@co.cumberland.nc.us>,
Gene Foxworth <GFoxworth@mideastcom.org>, Dee Freeman <deefree@tjcog.org>,
Kurt Freitag <kfreitag@dot.state.nc.us>, Tim Gibbs <tgibbs@ci.charlotte.nc.us>,
Bill Gibson <bill@regiona.org>, Jake Gilmer <jake@landofsky.org>,
Greg Godard <ggodard@ucpcog.org>, Hank Graham <hankg@cityofgastonia.com>,
Andy Grzymski <agrzymski@ci.charlotte.nc.us>,
Wally Hansen <whansen@ci.jacksonville.nc.us>,
Bob Harkrader <bharkrader@ci.burlington.nc.us>, Nicole Hay <nhay@nwpcog.org>,
Eldewins Haynes <ehaynes@ci.charlotte.nc.us>,
Rick Heicksen <rheicksen@co.cumberland.nc.us>,
Heather Hildebrandt <heather.hildebrandt@ncmail.net>, Judy Hills <jhills@eccog.org>,
John Hodges-Copple <johnhc@tjcog.org>,
Peggy Holland <peggy.holland@ci.greensboro.nc.us>,
Sheila Holman <Sheila.Holman@ncmail.net>,
Craig Hughes <craig.hughes@ci.high-point.nc.us>, Paul Hughes <phughes@regionc.org>,
Debi Hutchings <dhutchings@dot.state.nc.us>,
Ed Johnson <Ed.Johnson@ci.raleigh.nc.us>, Phyllis Jones <phyllis.d.jones@ncmail.net>,
Monica Kerr <mkerr@dot.state.nc.us>, Paul Kron <pkron@ptcog.org>,
Bob League <league@ci.rocky-mount.nc.us>, Billy Leggett <brleggett@aol.com>,
Faye Lewis <flewis@mccog.org>, Neil Mallory <nmallory@kerrtarcog.org>,
John C Marshall <john.marshall@wpcog.org>, Chris May <cmay@capefearcog.org>,
David Mcdonald <dmcdonald@ci.charlotte.nc.us>,
Lydia McIntyre <lydia.mcintyre@ci.greensboro.nc.us>,
Joe McKinney <jmckinney@landofsky.org>, Anna Meares <apmeares@dot.state.nc.us>,
Tyler Meyer <tyler.meyer@ci.greensboro.nc.us>,
Linh Nguyen <lnguyen@dot.state.nc.us>, Behshad Norowzi <bnorowzi@dot.state.nc.us>,
Mike Nunn <mnunn@mblsolution.com>, Felix Nwoko <fnwoko@ci.durham.nc.us>,
Mike Orr <mlorr@dot.state.nc.us>, Jonathan Parker <jhparker@dot.state.nc.us>,
Alan Powell <powell.alan@epa.gov>, Shelby Powell <spowell@kerrtarcog.org>,
Xiao-dan Qiu <Xqiu@centralina.org>, Shannon Ransom <sransom@dot.state.nc.us>,

Leslie Rhodes <RhodeLH@Co.Mecklenburg.NC.US>, Matt Roark <matt@regiona.org>,
Karen Roberson <kroberson@dot.state.nc.us>,
Janet Robertson <jfr@mail.lrcog.dst.nc.us>,
Rhonda Rogers <rrogers@ci.jacksonville.nc.us>, Kay Rose <bkr27944@yahoo.com>,
David Ross <ROSSSD@co.mecklenburg.nc.us>,
Chris Rountree <rountreec@halifaxnc.com>, Scott Walston <walston@dot.state.nc.us>,
A R Sharp Jr <asharp@centralina.org>, Tamra Shaw <tshaw@dot.state.nc.us>,
Sarah Smith <sarahsmith@dot.state.nc.us>, Adam Snipes <asnipes@dot.state.nc.us>,
Jeff Sovich <jeffrey.sovich@ci.greensboro.nc.us>, Jim Stokoe <jim@landofsky.org>,
Dana Stoogenke <dstoogenke@mccog.org>,
Joel Strickland <tstrickland@co.cumberland.nc.us>, Pat Strong <pstrong@tjcog.org>,
Dan Thomas <danthomas@dot.state.nc.us>,
Earlene Thomas <ewthomas@dot.state.nc.us>,
Jason Thompson <jasont@cityofgastonia.com>, John Tippett <john.tippett@wpcog.org>,
Phillip Trew <ptrew@regiond.org>, Tom Tysinger <ttysinger@ci.greenville.nc.us>,
James Upchurch <jhupchurch@dot.state.nc.us>,
Steve Walker <swalker@dot.state.nc.us>, Tim Ware <tware@mideastcom.org>,
Beverly Williams <bevwilliams@dot.state.nc.us>,
Kenneth Withrow <Kenneth.Withrow@ci.raleigh.nc.us>,
Rebecca Yarbrough <ryarbrough@centralina.org>,
Lynorae Benjamin <Benjamin.Lynorae@epamail.epa.gov>,
Paul Black <pblack@ucpcog.org>, Ginger Booker <Gbooker@ptcog.org>,
"Wayne Davis (E-mail)" <wcdavis@dot.state.nc.us>,
Amanetta Wood <Wood.Amanetta@epamail.epa.gov>

Good Morning Everyone,

This follow up message to yesterday's email. I forgot to mention that the July 11, 2005 meeting for the PM2.5 stakeholders meeting has been cancelled and we will do one meeting to cover all of the information on August 24th.

Sorry for any confusion.
Laura

-------- Original Message --------
Subject: PM 2.5 Stakeholders meeting rescheduled
Date: Tue, 21 Jun 2005 13:00:50 -0400
From: Laura Boothe <Laura.Boothe@ncmail.net>
To: undisclosed-recipients:;

Good Afternoon Everyone,

The stakeholder meeting for the PM2.5 State Implementation Plan (SIP) air quality modeling has been rescheduled. The meeting will be in Mocksville to address the PM2.5 modeling for the Greensboro/High Point/Lexington and Hickory nonattainment areas.

This meeting is for all stakeholders to participate, including electric utilities,

transportation partners, local officials, local industries and environmental groups.

We will be discussing the SIP modeling performance, the future year modeling,
and what the preliminary attainment test results are showing us. If we are not
demonstrating attainment, we will be having an in-depth discussion on potential
control measures.

The meeting will be held Wednesday, August 24, 2005.
The meetings will start at 9:30 and hopefully will conclude in the early afternoon. We will be requesting that everyone bring $8.00 to cover the cost of a box lunch so that we do not have to waste time on a long lunch break.

The meeting will be held at the
Davie County Public Library in Mocksville
371 N. Main Street

About a week before the meeting I will be sending out a reminder and asking for RSVP for the box lunches. If you have any questions, you may call or email me.

Thanks,
Laura Boothe
Chief of Attainment Planning Branch
North Carolina Division of Air Quality
919-733-1488
laura.boothe@ncmail.net

Laura Boothe <Laura.Boothe@ncmail.net>
Chief of Attainment Planning
Division of Air Quality
Environment and Natural Resources

Subject: PM 2.5 Stakeholders meeting rescheduled
Date: Tue, 21 Jun 2005 13:00:50 -0400
From: Laura Boothe <Laura.Boothe@ncmail.net>
To: undisclosed-recipients:;

Good Afternoon Everyone,

The stakeholder meeting for the PM2.5 State Implementation Plan (SIP) air quality modeling has been rescheduled. The meeting will be in Mocksville to address the PM2.5 modeling for the Greensboro/High Point/Lexington and Hickory nonattainment areas.

This meeting is for all stakeholders to participate, including electric utilities,
transportation partners, local officials, local industries and environmental groups.

We will be discussing the SIP modeling performance, the future year modeling,
and what the preliminary attainment test results are showing us. If we are not
demonstrating attainment, we will be having an in-depth discussion on potential
control measures.

The meeting will be held Wednesday, August 24, 2005.
The meetings will start at 9:30 and hopefully will conclude in the early afternoon. We will be requesting that everyone bring $8.00 to cover the cost of a box lunch so that we do not have to waste time on a long lunch break.

The meeting will be held at the
Davie County Public Library in Mocksville
371 N. Main Street

About a week before the meeting I will be sending out a reminder and asking for RSVP for the box lunches. If you have any questions, you may call or email me.

Thanks,
Laura Boothe
Chief of Attainment Planning Branch
North Carolina Division of Air Quality
919-733-1488
laura.boothe@ncmail.net

Laura Boothe <Laura.Boothe@ncmail.net>
Chief of Attainment Planning
Division of Air Quality
Environment and Natural Resources

Subject: **06-12 TIP Conformity Status (6.17.05)**
Date: Fri, 17 Jun 2005 14:59:31 -0400
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>,
"Ed Johnson \(E-mail\)" <Ed.Johnson@ci.raleigh.nc.us>,
"Kenneth Withrow \(E-mail\)" <Kenneth.Withrow@ci.raleigh.nc.us>,
"Felix Nwoko \(E-mail\)" <fnwoko@ci.durham.nc.us>,
"Mark Ahrendsen \(E-mail\)" <mahrendsen@ci.durham.nc.us>,
"Mike Nunn \(E-mail\)" <mnunn@mblsolution.com>,
"Pat Strong \(E-mail\)" <pstrong@tjcog.org>,
"Shelby Powell \(E-mail\)" <spowell@kerrtarcog.org>,
"Ann Whitley \(E-mail\)" <awhitley@ucpcog.org>,
"Dan Thomas \(E-mail\)" <danthomas@dot.state.nc.us>,
"Tim Gibbs \(E-mail\)" <tgibbs@ci.charlotte.nc.us>,
"Robert Cook \(E-mail\)" <rwcook@ci.charlotte.nc.us>,
"Phil Conrad \(E-mail\)" <pconrad@mblsolution.com>,
"Hank Graham \(E-mail\)" <hankg@cityofgastonia.com>,
"Rebecca Yarbrough \(E-mail\)" <ryarbrough@centralina.org>,
"Lydia McIntyre \(E-mail\)" <lydia.mcintyre@ci.greensboro.nc.us>,
"Peggy Holland \(E-mail\)" <peggy.holland@ci.greensboro.nc.us>,
"Craig Hughes \(E-mail\)" <craig.hughes@ci.high-point.nc.us>,
"Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>,
"Gregory Errett \(E-mail\)" <GREGE@cityofws.org>,
"Wendy Miller \(E-mail\)" <wendym@cityofws.org>,
"Nicole Hay \(E-mail\)" <nhay@nwpcog.org>,
"League, Bob \(E-mail\)" <league@ci.rocky-mount.nc.us>
CC: "John Hodges-Copple \(E-mail\)" <johnhc@tjcog.org>,
"Orr, Mike \(E-mail\)" <mlorr@dot.state.nc.us>,
"Sarah Smith \(E-mail\)" <sarahsmith@dot.state.nc.us>,
"Sara Sherman \(E-mail\)" <ssherman@dot.state.nc.us>,
"Walston, Scott \(E-mail\)" <walston@dot.state.nc.us>,
"Alena Cook \(E-mail\)" <arcook@dot.state.nc.us>,
"Travis Marshall \(E-mail\)" <tmarshall@dot.state.nc.us>,
"Mike Bruff \(E-mail\)" <mbruff@dot.state.nc.us>,
"Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Michael Abuya \(E-mail\)" <mrabuya@dot.state.nc.us>,
"Wayne Davis \(E-mail\)" <wcdavis@dot.state.nc.us>,
"Ellen Beckmann \(E-mail\)" <ebeckmann@dot.state.nc.us>,
"Atefe Nothcutt \(E-mail\)" <anorthcutt@dot.state.nc.us>,
"Dan Thomas \(E-mail\)" <danthomas@dot.state.nc.us>,
"Jamal Alavi \(E-mail\)" <jalavi@dot.state.nc.us>,
"Stevens, Joseph" <Joseph.Stevens@fhwa.dot.gov>,
"Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>,
"Barren, Loretta" <Loretta.Barren@fhwa.dot.gov>,
"Marley, Bill" <Bill.Marley@fhwa.dot.gov>,
"Steinman, Norman \(E-mail\)" <nsteinman@ci.charlotte.nc.us>,
"Jonathan Parker \(E-mail\)" <jhparker@dot.state.nc.us>,

"Terry Arellano \(E-mail\)" <tarellano@dot.state.nc.us>,
"Katherine English \(E-mail\)" <kenglish@dot.state.nc.us>,
"Linda Dosse \(E-mail\)" <ldosse@dot.state.nc.us>,
"Shannon Ransom \(E-mail\)" <sransom@dot.state.nc.us>,
"Tyler Meyers \(E-mail\)" <tyler.meyer@ci.greensboro.nc.us>,
"Monica Kerr \(E-mail\)" <mkerr@dot.state.nc.us>,
"Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Anna Meares \(E-mail\)" <apmeares@dot.state.nc.us>,
"Benjamin, Lynorae \(E-mail\)" <Benjamin.Lynorae@epamail.epa.gov>,
"Alan Powell \(E-mail\)" <powell.alan@epa.gov>,
"Heather Hildebrandt \(E-mail\)" <heather.hildebrandt@ncmail.net>

Here is the latest status on TIP conformity:

The following areas will have to do a new regional emissions analysis to demonstrate conformity by 10/1/05:

* Winston Salem Forsyth (WSF) MPO (Forsyth and Davie) impacted projects:
  Forsyth: R-2247, U-2924, U-2729, U-4734, R-3610, I-911, U-2579, U-2925

  The WSF MPO has updated their LRTP and completed the draft conformity determination report (the changes in this update versus what was done for the conformity determination completed on May 28, 2005 are summarized). The documents are out for public review and comment. The documents will be sent to NCDENR, FHWA, FTA and EPA next week (week of 6/20) for review and comment.

* METROLINA AREA (Cabarrus, Gaston, Iredell, Lincoln, Mecklenburg, Rowan and Union) impacted projects:
  Mecklenburg: U-203
  Rowan: I-2304
  Gaston: U-3633
  Union: U-3825

  The Metrolina area is currently working on setting up an interagency consultation meeting/conference call to discuss the approach for the regional emission analysis for the LRTP/06-12 TIP conformity that is due by 10/1/05, to ensure that all the agency partners are informed and agree with the analysis approach.

  A conformity process schedule for the Metrolina area needs to be developed

* I recommend that the Metrolina area take a good look at their project list and 06-12 TIP to include any other questionable project in this regional emissions analysis.

* The following areas will need to demonstrate conformity WITHOUT a regional emissions analysis by 10/1/05. The 06-12 TIPs are subsets of the 2030 LRTPs
* Triangle Area (Chatham, Durham, Franklin, Granville, Johnston, Orange, Person and Wake)
* Rocky Mount (Edgecombe & Nash)
* Guilford and Davidson

I provided in the attached file below required documentation (reports and resolutions needed for each nonattainment/maintenance area in NC) for this round of TIP conformity for your information and use. Look over this document and let me know if you have any questions or corrections.
<<TIP Conformity Documents_TAC Actions.xls>>

The attached file below contains a generic conformity process that can be modified for your area:

<<MTIP06-12_generic_noREA.pdf>>

If you have any questions, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

>

TIP Conformity Documents_TAC Actions.xls	**Name:** TIP Conformity Documents_TAC Actions.xls **Type:** Microsoft Excel Worksheet (application/vnd.ms-excel) **Encoding:** base64 **Description:** TIP Conformity Documents_TAC Actions.xls

MTIP06-12_generic_noREA.pdf	**Name:** MTIP06-12_generic_noREA.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64 **Description:** MTIP06-12_generic_noREA.pdf

Subject: Re: FW: Triad IC PM2.5 Transportation Conformity Consensus Plan Meeting
Date: Fri, 17 Jun 2005 10:46:08 -0400
From: Behshad Norowzi <bnorowzi@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: Scott Rhine <scottr@partnc.org> ,
Eddie Dancausse <Edward.Dancausse@fhwa.dot.gov> ,
"Dr. Wayne C. Davis" <wcdavis@dot.state.nc.us> ,
James Upchurch <jhupchurch@dot.state.nc.us> ,
"Monica D. Kerr" <mkerr@dot.state.nc.us> ,
Michael Abuya <MRAbuya@dot.state.nc.us>
CC: "Heather.Hildebrandt" <Heather.Hildebrandt@ncmail.net> ,
Travis Marshall <tmarshall@dot.state.nc.us> ,
"Alena R. Cook, PE" <arcook@dot.state.nc.us> ,
Laura Boothe <Laura.Boothe@ncmail.net> ,
"Jamal Alavi, PE" <jalavi@dot.state.nc.us> ,
Mike Abraczinskas <Michael.Abraczinskas@ncmail.net> ,
Phyllis D Jones <Phyllis.D.Jones@ncmail.net>

Hi Scott,
Please see the Draft Sch for Triad PM2.5 Conformity and let me know if there is any question.
Thanks,
Behshad

Scott Rhine wrote:

> *Beshad, will you provide me a draft schedule for our transportation*
> *conformity. Thanks, and please advise if you have any questions.*
>
> *-----Original Message-----*
> *From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]*
> *Sent: Friday, June 10, 2005 10:54 AM*
> *To: Scott Rhine*
> *Cc: Behshad Norowzi (E-mail); Upchurch, James (E-mail); Jamal Alavi*
> *(E-mail); Marley, Bill; Wilner, Marcus*
> *Subject: RE: Triad IC PM2.5 Transportation Conformity Consensus Plan Meeting*
>
> *Scott,*
>
> *Please contact Behshad and he or Jamal will put together a conformity*
> *process schedule for the Triad PM2.5 area. The attached file below contains*
> *suggested revisions to the TCPCP. We also need to get NCDOT and NCDENR-DAQ*
> *to look at and provide input for the TCPCP. DAQ needs to look at numbers*
> *12, 13, and 14. We also need assistance from NCDENR on what PM2.5*
> *precursors we will need to consider for this round of conformity.*
>
> *Good start on the TCPCP.*
>
> *If you have any additional questions, please let me know.*
>
> *Eddie*
>
> *Edward J. Dancausse*
> *Air Quality Specialist*
> *FHWA NC Division*
> *919-856-4330 x112*
> *919-856-4353(fax)*
> *edward.dancausse@fhwa.dot.gov*
> *www.fhwa.dot.gov/ncdiv/*

>
> -----Original Message-----
> From: Scott Rhine [mailto:scottr@partnc.org]
> Sent: Wednesday, June 08, 2005 3:19 PM
> To: Dancausse, Edward
> Subject: RE: Triad IC PM2.5 Transportation Conformity Consensus Plan
> Meeting
>
> Well the 12th it is. I will send out a confirmation to this for all
> attendees. When you get a chance I need your thoughts on where we could
> meet in the Triangle Area on the 12th, and also need your thoughts on our
> schedule. Attached is the first "rough" draft of the Consensus plan.
>
> I will send this out to folks to start getting some things adjusted
> appropriately. However, before I do so, please provide me your thoughts.
> Thanks man, and have a good one!
> Scott
>
> -----Original Message-----
> From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
> Sent: Wednesday, June 08, 2005 3:10 PM
> To: Scott Rhine
> Subject: RE: Triad IC PM2.5 Transportation Conformity Consensus Plan Meeting
>
> Scott,
>
> Lynorae is our EPA contact. All the days you mentioned are good for me. I
> noticed on my calendar that NCDENR is having a SIP stakeholder meeting on
> all day on July 13th.
>
> Eddie
>
> Edward J. Dancausse
> Air Quality Specialist
> FHWA NC Division
> 919-856-4330 x112
> 919-856-4353(fax)
> edward.dancausse@fhwa.dot.gov
> www.fhwa.dot.gov/ncdiv/
>
> -----Original Message-----
> From: Scott Rhine [mailto:scottr@partnc.org]
> Sent: Wednesday, June 08, 2005 12:27 PM
> To: Dancausse, Edward
> Subject: FW: Triad IC PM2.5 Transportation Conformity Consensus Plan
> Meeting
>
> Is this our only rep from EPA? If so, it looks like our date is set.
> Thanks
>
> -----Original Message-----
> From: Benjamin.Lynorae@epamail.epa.gov
> [mailto:Benjamin.Lynorae@epamail.epa.gov]
> Sent: Wednesday, June 08, 2005 11:38 AM
> To: Scott Rhine
> Subject: Re: Triad IC PM2.5 Transportation Conformity Consensus Plan Meeting
>
> Hello Scott,
>
> The only day of consideration that is good for me is July 12th (in the
> morning)... I will be on vacation the entire week of July 4, 2005, and
> on travel July 13, 2005.
>
> I hope your day is going well.
>
> Lynorae Benjamin, Environmental Engineer U.S. Environmental Protection

> Agency, Region 4 Air, Pesticides and Toxics Management Division
> 61 Forsyth Street, S.W.
> Atlanta, Georgia 30303
> email: benjamin.lynorae@epa.gov
> phone: (404) 562-9040
> fax: (404) 562-9019
>
>
> Scott Rhine
> <scottr@partnc.o
> rg> To
> heather.hildebrandt@ncmail.net,
> 06/08/2005 11:00 michael.abraczinskas@ncmail.net,
> AM laura.boothe@ncmail.net,
> Alex.McNeil@fta.dot.gov, Lynorae
> Benjamin/R4/USEPA/US@EPA,
> jalavi@dot.state.nc.us, "'Mike
> Kozak'" <mkozak@dot.state.nc.us>
> cc
> actaexec@bellsouth.net, Alena
> Cook <arcook@dot.state.nc.us>,
> "Behshad Norowzi (E-mail)"
> <bnorowzi@dot.state.nc.us>, "Bill
> Marley (E-mail)"
> <bill.marley@fhwa.dot.gov>,
> burlmpo@ci.burlington.nc.us, Cary
> Gentry <gentrycd@forsyth.cc>,
> "'Craig Hughes'"
> <craig.hughes@ci.high-point.nc.us
> >, Edward.Dancausse@fhwa.dot.gov,
> Greg Errett <grege@cityofws.org>,
> Guy Cornman
> <gcornman@co.davidson.nc.us>,
> "Hanna Cockburn (E-mail)"
> <hcockburn@ptcog.org>, "James
> Upchurch (E-mail)"
> <jhupchurch@dot.state.nc.us>,
> Lydia McIntyre
> <lydia.mcintyre@greensboro.nc.us>
> , Marcus Wilner
> <marcus.wilner@fhwa.dot.gov>,
> Michael Abuya
> <mrabuya@dot.state.nc.us>,
> mkerr@dot.state.nc.us, Patrick
> Reagan <reaganpa@forsyth.cc>,
> Phil Wylie
> <Phil.Wylie@ci.high-point.nc.us>,
> scottr@partnc.org, Tyler Meyer
> <tyler.meyer@ci.greensboro.nc.us>
> , "'Wayne Davis'"
> <wcdavis@dot.state.nc.us>, Wendy
> Miller <WENDYM@cityofws.org>
> Subject
> Triad IC PM2.5 Transportation
> Conformity Consensus Plan Meeting
>
>
>
>
>
>
>
> Greetings. The following dates are being presented to you for consideration
> in getting together to go over the Triad Regions Pre-Analysis Consensus plan
> for the Triad PM2.5 Transportation Conformity.
>

> Our dates for consideration are: July 6, 7, 12, or 13.
>
> Please respond to this email with your availability to each of these dates.
> The Consensus plan will be distributed prior to the meeting. If you have
> any questions, please don't hesitate to contact me at your convenience.
> Have a great day!
>
> (Embedded image moved to file: pic14708.gif) Scott W. Rhine Programs Manager
> 7800 Airport Center Dr., Ste. 102 Greensboro, NC 27409
> 336/662-0002
> 336/662-9253 Fax
> scottr@partnc.org
> www.partnc.org
>
> ----------
> Name: Triad Region PM2 5 TCPCP.doc
> Triad Region PM2 5 TCPCP.doc Type: Microsoft Word Document
(application/msword)
> Encoding: base64
> Download Status: Not downloaded with message

Triad-PM2.5.pdf	**Name:** Triad-PM2.5.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

Subject: Re: PM2.5 IC Meeting Confirmed
Date: Tue, 14 Jun 2005 13:48:41 -0400
From: "Greg Errett" <GREGE@cityofws.org>
To: <scottr@partnc.org>
CC: "Connie Curtis" <CONNIEC.LSP-PO.City.of.Winston-Salem@cityofws.org>, "Greg Venable" <GREGV.LSP2-PO.City.of.Winston-Salem@cityofws.org>, "Lakesha Dunbar" <LAKESHAD.LSP2-PO.City.of.Winston-Salem@cityofws.org>, "Margaret Bessette" <MARGB.LSP-PO.City.of.Winston-Salem@cityofws.org>, "Stan Polanis" <STANP.LSP-PO.City.of.Winston-Salem@cityofws.org>, "Suzanne Tellechea" <SUZANNEBT.LSP2-PO.City.of.Winston-Salem@cityofws.org>, "Wendy Miller" <WENDYM.LSP-PO.City.of.Winston-Salem@cityofws.org>, <jhupchurch@dot.state.nc.us>, <Edward.Dancausse@fhwa.dot.gov>

Scott: Thanks for taking the lead on this! I will not be able to attend this meeting because I will be at the Northern Beltway EIS Merger Team meeting at the Transportation Building at 10:00 a.m. - three blocks away. Wendy and possibly someone else will go.

Greg Errett, AICP
Planning Development Coordinator
City of Winston-Salem Department of Transportation
P.O. Box 2511
Winston-Salem, North Carolina 27102-2511
(336) 727-2707 Office
(336) 747-6871 Direct
(336) 748-3370 Fax

>>> "Scott Rhine" <scottr@partnc.org> 6/10/05 4:19:19 PM >>>
Our meeting date is confirmed for July 12, 2005 beginning at 10:00 AM. We will hold our meeting in Raleigh at the FHWA building. Eddie has secured his conference room, and we will -conference our partners from Atlanta into our discussions.

An agenda, and PM2.5 Consensus Plan will be forwarded to you by EOB June 24, 2005. Thank you, and have a great weekend!

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org <http://www.partnc.org/>

Subject: RE: PM2.5 IC Meeting Confirmed
Date: Tue, 14 Jun 2005 13:39:46 -0400
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "James Upchurch" <jhupchurch@dot.state.nc.us>
CC: "Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>,
"Scott Rhine \(E-mail\)" <scottr@partnc.org>

James,

Your interpretation is correct.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

PART
piedmont authority for regional transportation

-----Original Message-----
From: James Upchurch [mailto:jhupchurch@dot.state.nc.us]
Sent: Monday, June 13, 2005 2:49 PM
To: Scott Rhine; Behshad Norowzi (E-mail); Dancausse, Edward
Subject: Re: PM2.5 IC Meeting Confirmed

Scott/Eddie/Behshad,
The base year driven by Air Quality requirements is 2002, and 2014 is not required for PM 2.5; however years 2010 2020 2030 are needed.

We may show in the updated LRTP 2010, 2014, 2020, 2030, but still the emissions analysis only requires us to show years 2002, 2010, 2020, 2030.
Is this a correct interpretation with everyone?

J. Upchurch

Scott Rhine wrote:

> Our meeting date is confirmed for July 12, 2005 beginning at 10:00 AM. We will hold our meeting in Raleigh at the FHWA building. Eddie has secured his conference room, and we will -conference our partners from Atlanta into our discussions.An agenda, and PM2.5 Consensus Plan will be forwarded to you by EOB June 24, 2005. Thank you, and have a great weekend! Scott W. RhinePrograms Manager7800 Airport Center Dr., Ste. 102Greensboro, NC 27409336/662-0002336/662-9253 Faxscottr@partnc.orgwww.partnc.org

--
James Upchurch
Transportation Engineer III
North Carolina Department of Transportation
1554 Mail Service Center
Raleigh, NC 27699-1554
(919) 733-4705
(919) 733-2417

Subject: RE: PM2.5 IC Meeting Confirmed
Date: Tue, 14 Jun 2005 08:30:40 -0400
From: "Scott Rhine" <scottr@partnc.org>
To: "'James Upchurch'" <jhupchurch@dot.state.nc.us>

Thanks James. This is different than what we discussed over the phone (2002 vs. 2004 base year) I have no real interest in the base being either 2002 or 2004; I just want to make sure I'm incorporating your thoughts correctly. Thanks
Scott

From: James Upchurch [mailto:jhupchurch@dot.state.nc.us]
Sent: Monday, June 13, 2005 2:49 PM
To: Scott Rhine; Behshad Norowzi (E-mail); Edward.Dancausse@fhwa.dot.gov
Subject: Re: PM2.5 IC Meeting Confirmed

Scott/Eddie/Behshad,
The base year driven by Air Quality requirements is 2002, and 2014 is not required for PM 2.5; however years 2010 2020 2030 are needed.

We may show in the updated LRTP 2010, 2014, 2020, 2030, but still the emissions analysis only requires us to show years 2002, 2010, 2020, 2030.
Is this a correct interpretation with everyone?

J. Upchurch

Scott Rhine wrote:

> Our meeting date is confirmed for July 12, 2005 beginning at 10:00 AM. We will hold our meeting in Raleigh at the FHWA building. Eddie has secured his conference room, and we will -conference our partners from Atlanta into our discussions.An agenda, and PM2.5 Consensus Plan will be forwarded to you by EOB June 24, 2005. Thank you, and have a great weekend!

Scott W. RhinePrograms Manager7800 Airport Center Dr., Ste. 102Greensboro, NC 27409336/662-0002336/662-9253
Faxscottr@partnc.orgwww.partnc.org

--

James Upchurch
Transportation Engineer III
North Carolina Department of Transportation
1554 Mail Service Center
Raleigh, NC 27699-1554
(919) 733-4705
(919) 733-2417

Subject: RE: PM2.5 IC Meeting Confirmed
Date: Tue, 14 Jun 2005 08:18:29 -0400
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "James Upchurch" <jhupchurch@dot.state.nc.us>, "Scott Rhine" <scottr@partnc.org>, "Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>

James,

I am researching this issue. I will get back with you hopefully this afternoon.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

PART
piedmont authority for regional transportation

-----Original Message-----
From: James Upchurch [mailto:jhupchurch@dot.state.nc.us]
Sent: Monday, June 13, 2005 2:49 PM
To: Scott Rhine; Behshad Norowzi (E-mail); Dancausse, Edward
Subject: Re: PM2.5 IC Meeting Confirmed

Scott/Eddie/Behshad,
The base year driven by Air Quality requirements is 2002, and 2014 is not required for PM 2.5; however years 2010 2020 2030 are needed.

We may show in the updated LRTP 2010, 2014, 2020, 2030, but still the emissions analysis only requires us to show years 2002, 2010, 2020, 2030.

Is this a correct interpretation with everyone?

J. Upchurch

Scott Rhine wrote:

> Our meeting date is confirmed for July 12, 2005 beginning at 10:00 AM. We will hold our meeting in Raleigh at the FHWA building. Eddie has secured his conference room, and we will -conference our partners from Atlanta into our discussions.An agenda, and PM2.5 Consensus Plan will be forwarded to you by EOB June 24, 2005. Thank you, and have a great weekend! Scott W. RhinePrograms Manager7800 Airport Center Dr., Ste. 102Greensboro, NC 27409336/662-0002336/662-9253 Faxscottr@partnc.orgwww.partnc.org

--
James Upchurch
Transportation Engineer III
North Carolina Department of Transportation
1554 Mail Service Center
Raleigh, NC 27699-1554
(919) 733-4705
(919) 733-2417

Subject: **Reminder - Triad PM2.5 NA Area PM2.5 Conformity Followup Planning Session**
Date: Wed, 1 Jun 2005 13:57:43 -0400
From: "Scott Rhine" <scottr@partnc.org>
To: "'Scott Rhine'" <scottr@partnc.org>,
"'Dancausse, Edward'" <Edward.Dancausse@fhwa.dot.gov>,
"'Cary Gentry \(E-mail\)'" <gentrycd@forsyth.cc>,
"'Craig Hughes \(E-mail\)'" <craig.hughes@ci.high-point.nc.us>,
"'Gregory Errett \(E-mail\)'" <GREGE@cityofws.org>,
"'Hanna Cockburn \(E-mail\)'" <hcockburn@ptcog.org>,
"'Lydia McIntyre \(E-mail\)'" <lydia.mcintyre@ci.greensboro.nc.us>,
"'Mike Nunn \(E-mail\)'" <mnunn@mblsolution.com>,
"'Patrick Reagan \(E-mail\)'" <reaganpa@co.forsyth.nc.us>,
"'Peggy Holland \(E-mail\)'" <peggy.holland@ci.greensboro.nc.us>,
"'Tyler Meyers \(E-mail\)'" <tyler.meyer@ci.greensboro.nc.us>,
"'Wendy Miller \(E-mail\)'" <wendym@cityofws.org>,
"'Alena Cook \(E-mail\)'" <arcook@dot.state.nc.us>,
"'Behshad Norowzi \(E-mail\)'" <bnorowzi@dot.state.nc.us>,
"'Dan Thomas \(E-mail\)'" <danthomas@dot.state.nc.us>,
"'Jamal Alavi \(E-mail\)'" <jalavi@dot.state.nc.us>,
"'Marley, Bill'" <Bill.Marley@fhwa.dot.gov>,
"'Michael Abuya \(E-mail\)'" <mrabuya@dot.state.nc.us>,
"'Monica Kerr \(E-mail\)'" <mkerr@dot.state.nc.us>,
"'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>,
"'Wayne Davis \(E-mail\)'" <wcdavis@dot.state.nc.us>
CC: "'Wilner, Marcus'" <Marcus.Wilner@fhwa.dot.gov>,
"'Barren, Loretta'" <Loretta.Barren@fhwa.dot.gov>

Just a reminder - We are scheduled to meet this Friday at the PART office beginning at 10:00AM. See you then.
Scott

-----Original Message-----
From: Scott Rhine [mailto:scottr@partnc.org]
Sent: Wednesday, May 25, 2005 2:31 PM

Following receipt of those able to reply; we have a majority of folks that can meet on June 3, 2005. I would propose a meeting here at the PART office at 10:00 AM. The meeting/discussion will likely last for 2 hours. Lunch will be provided.

An agenda will be prepared to assist us in our discussions. If you have any questions, please let me know. Have a great day!

Scott Rhine

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Thursday, May 19, 2005 2:11 PM
To: Cary Gentry (E-mail); Craig Hughes (E-mail); Gregory Errett (E-mail); Hanna Cockburn (E-mail); Lydia McIntyre (E-mail); Mike Nunn (E-mail); Patrick Reagan (E-mail); Peggy Holland (E-mail); Scott Rhine (E-mail); Tyler Meyers (E-mail); Wendy Miller (E-mail); Alena Cook (E-mail); Behshad Norowzi (E-mail); Dan Thomas (E-mail); Jamal Alavi (E-mail); Marley, Bill; Michael

Abuya (E-mail); Monica Kerr (E-mail); Upchurch, James (E-mail); Wayne Davis (E-mail)
Cc: Wilner, Marcus; Barren, Loretta
Subject: Triad PM2.5 NA Area PM2.5 Conformity Followup Planning Session

Scott.

Some of the Triad Area partners have expressed an interest in having a meeting to further discuss the Triad Area PM2.5 conformity process roles and responsibilities. This meeting needs to take place in the near future. Other topics for discussion are the date for kickoff IC meeting and associated work tasks that need to take place prior to the meeting.

The following dates are currently free on my calendar: June 2,3,7 & 8.

The PART facility might be a good location for the meeting.

Check and see what dates might be convenient for the Triad partners and notify them of the meeting date and location.

If you have any questions or need any assistance, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: **PM2.5 IC Meeting Confirmed**
Date: Fri, 10 Jun 2005 16:19:19 -0400
From: "Scott Rhine" <scottr@partnc.org>
To: "Alena Cook" <arcook@dot.state.nc.us>,
"Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Bill Marley \(E-mail\)" <bill.marley@fhwa.dot.gov>, <burlmpo@ci.burlington.nc.us>,
"Cary Gentry" <gentrycd@forsyth.cc>,
"'Craig Hughes'" <craig.hughes@ci.high-point.nc.us>, <Edward.Dancausse@fhwa.dot.gov>,
"Greg Errett" <grege@cityofws.org>, "Guy Cornman" <gcornman@co.davidson.nc.us>,
"Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>,
"James Upchurch \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Lydia McIntyre" <lydia.mcintyre@greensboro.nc.us>,
"Marcus Wilner" <marcus.wilner@fhwa.dot.gov>,
"Michael Abuya" <mrabuya@dot.state.nc.us>, <mkerr@dot.state.nc.us>,
"Patrick Reagan" <reaganpa@forsyth.cc>, "Phil Wylie" <Phil.Wylie@ci.high-point.nc.us>,
<scottr@partnc.org.>, "Tyler Meyer" <tyler.meyer@ci.greensboro.nc.us>,
"'Wayne Davis'" <wcdavis@dot.state.nc.us>, "Wendy Miller" <WENDYM@cityofws.org>

Our meeting date is confirmed for July 12, 2005 beginning at 10:00 AM. We will hold our meeting in Raleigh at the FHWA building. Eddie has secured his conference room, and we will -conference our partners from Atlanta into our discussions.

An agenda, and PM2.5 Consensus Plan will be forwarded to you by EOB June 24, 2005. Thank you, and have a great weekend!

PART
piedmont authority for regional transportation

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

Subject: RE: Triad IC PM2.5 Transportation Conformity Consensus Plan Meeting
Date: Fri, 10 Jun 2005 10:53:57 -0400
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "Scott Rhine" <scottr@partnc.org>
CC: "Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Jamal Alavi \(E-mail\)" <jalavi@dot.state.nc.us>,
"Marley, Bill" <Bill.Marley@fhwa.dot.gov>,
"Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>

Scott,

Please contact Behshad and he or Jamal will put together a conformity process schedule for the Triad PM2.5 area. The attached file below contains suggested revisions to the TCPCP. We also need to get NCDOT and NCDENR-DAQ to look at and provide input for the TCPCP. DAQ needs to look at numbers 12, 13, and 14. We also need assistance from NCDENR on what PM2.5 precursors we will need to consider for this round of conformity.

Good start on the TCPCP.

If you have any additional questions, please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Scott Rhine [mailto:scottr@partnc.org]
Sent: Wednesday, June 08, 2005 3:19 PM
To: Dancausse, Edward
Subject: RE: Triad IC PM2.5 Transportation Conformity Consensus Plan Meeting

Well the 12th it is. I will send out a confirmation to this for all attendees. When you get a chance I need your thoughts on where we could meet in the Triangle Area on the 12th, and also need your thoughts on our schedule. Attached is the first "rough" draft of the Consensus plan.

I will send this out to folks to start getting some things adjusted appropriately. However, before I do so, please provide me your thoughts.
Thanks man, and have a good one!
Scott

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Wednesday, June 08, 2005 3:10 PM
To: Scott Rhine
Subject: RE: Triad IC PM2.5 Transportation Conformity Consensus Plan Meeting

Scott,

Lynorae is our EPA contact. All the days you mentioned are good for me. I

noticed on my calendar that NCDENR is having a SIP stakeholder meeting on all day on July 13th.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Scott Rhine [mailto:scottr@partnc.org]
Sent: Wednesday, June 08, 2005 12:27 PM
To: Dancausse, Edward
Subject: FW: Triad IC PM2.5 Transportation Conformity Consensus Plan Meeting

Is this our only rep from EPA? If so, it looks like our date is set. Thanks

-----Original Message-----
From: Benjamin.Lynorae@epamail.epa.gov [mailto:Benjamin.Lynorae@epamail.epa.gov]
Sent: Wednesday, June 08, 2005 11:38 AM
To: Scott Rhine
Subject: Re: Triad IC PM2.5 Transportation Conformity Consensus Plan Meeting

Hello Scott,

The only day of consideration that is good for me is July 12th (in the morning)... I will be on vacation the entire week of July 4, 2005, and on travel July 13, 2005.

I hope your day is going well.

Lynorae Benjamin, Environmental Engineer U.S. Environmental Protection Agency, Region 4 Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
email: benjamin.lynorae@epa.gov
phone: (404) 562-9040
fax: (404) 562-9019

Scott Rhine <scottr@partnc.org>
06/08/2005 11:00 AM

To
heather.hildebrandt@ncmail.net, michael.abraczinskas@ncmail.net, laura.boothe@ncmail.net, Alex.McNeil@fta.dot.gov, Lynorae Benjamin/R4/USEPA/US@EPA, jalavi@dot.state.nc.us, "'Mike Kozak'" <mkozak@dot.state.nc.us>

cc
actaexec@bellsouth.net, Alena Cook <arcook@dot.state.nc.us>, "Behshad Norowzi (E-mail)"

<bnorowzi@dot.state.nc.us>, "Bill Marley (E-mail)" <bill.marley@fhwa.dot.gov>, burlmpo@ci.burlington.nc.us, Cary Gentry <gentrycd@forsyth.cc>, "'Craig Hughes'" <craig.hughes@ci.high-point.nc.us>, *Edward.Dancausse@fhwa.dot.gov*, Greg Errett <grege@cityofws.org>, Guy Cornman <gcornman@co.davidson.nc.us>, "Hanna Cockburn (E-mail)" <hcockburn@ptcog.org>, "James Upchurch (E-mail)" <jhupchurch@dot.state.nc.us>, Lydia McIntyre <lydia.mcintyre@greensboro.nc.us>, Marcus Wilner <marcus.wilner@fhwa.dot.gov>, Michael Abuya <mrabuya@dot.state.nc.us>, mkerr@dot.state.nc.us, Patrick Reagan <reaganpa@forsyth.cc>, Phil Wylie <Phil.Wylie@ci.high-point.nc.us>, scottr@partnc.org, Tyler Meyer <tyler.meyer@ci.greensboro.nc.us>, "'Wayne Davis'" <wcdavis@dot.state.nc.us>, Wendy Miller <WENDYM@cityofws.org>
Subject
Triad IC PM2.5 Transportation Conformity Consensus Plan Meeting

Greetings. The following dates are being presented to you for consideration in getting together to go over the Triad Regions Pre-Analysis Consensus plan for the Triad PM2.5 Transportation Conformity.

Our dates for consideration are: July 6, 7, 12, or 13.

Please respond to this email with your availability to each of these dates. The Consensus plan will be distributed prior to the meeting. If you have any questions, please don't hesitate to contact me at your convenience. Have a great day!

(Embedded image moved to file: pic14708.gif) Scott W. Rhine Programs Manager
7800 Airport Center Dr., Ste. 102 Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

Triad Region PM2 5 TCPCP.doc	**Name:** Triad Region PM2 5 TCPCP.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64 **Description:** Triad Region PM2 5 TCPCP.doc

Subject: RE: Triad PM2.5 NA Area PM2.5 Conformity Followup Planning Session
Date: Wed, 25 May 2005 14:31:24 -0400
From: "Scott Rhine" <scottr@partnc.org>
To: "'Dancausse, Edward'" <Edward.Dancausse@fhwa.dot.gov>,
"'Cary Gentry \(E-mail\)'" <gentrycd@forsyth.cc>,
"'Craig Hughes \(E-mail\)'" <craig.hughes@ci.high-point.nc.us>,
"'Gregory Errett \(E-mail\)'" <GREGE@cityofws.org>,
"'Hanna Cockburn \(E-mail\)'" <hcockburn@ptcog.org>,
"'Lydia McIntyre \(E-mail\)'" <lydia.mcintyre@ci.greensboro.nc.us>,
"'Mike Nunn \(E-mail\)'" <mnunn@mblsolution.com>,
"'Patrick Reagan \(E-mail\)'" <reaganpa@co.forsyth.nc.us>,
"'Peggy Holland \(E-mail\)'" <peggy.holland@ci.greensboro.nc.us>,
"'Tyler Meyers \(E-mail\)'" <tyler.meyer@ci.greensboro.nc.us>,
"'Wendy Miller \(E-mail\)'" <wendym@cityofws.org>,
"'Alena Cook \(E-mail\)'" <arcook@dot.state.nc.us>,
"'Behshad Norowzi \(E-mail\)'" <bnorowzi@dot.state.nc.us>,
"'Dan Thomas \(E-mail\)'" <danthomas@dot.state.nc.us>,
"'Jamal Alavi \(E-mail\)'" <jalavi@dot.state.nc.us>,
"'Marley, Bill'" <Bill.Marley@fhwa.dot.gov>,
"'Michael Abuya \(E-mail\)'" <mrabuya@dot.state.nc.us>,
"'Monica Kerr \(E-mail\)'" <mkerr@dot.state.nc.us>,
"'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>,
"'Wayne Davis \(E-mail\)'" <wcdavis@dot.state.nc.us>
CC: "'Wilner, Marcus'" <Marcus.Wilner@fhwa.dot.gov>,
"'Barren, Loretta'" <Loretta.Barren@fhwa.dot.gov>

Following receipt of those able to reply; we have a majority of folks that can meet on June 3, 2005. I would propose a meeting here at the PART office at 10:00 AM. The meeting/discussion will likely last for 2 hours. Lunch will be provided.

An agenda will be prepared to assist us in our discussions. If you have any questions, please let me know. Have a great day!

Scott Rhine

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Thursday, May 19, 2005 2:11 PM
To: Cary Gentry (E-mail); Craig Hughes (E-mail); Gregory Errett (E-mail); Hanna Cockburn (E-mail); Lydia McIntyre (E-mail); Mike Nunn (E-mail); Patrick Reagan (E-mail); Peggy Holland (E-mail); Scott Rhine (E-mail); Tyler Meyers (E-mail); Wendy Miller (E-mail); Alena Cook (E-mail); Behshad Norowzi (E-mail); Dan Thomas (E-mail); Jamal Alavi (E-mail); Marley, Bill; Michael Abuya (E-mail); Monica Kerr (E-mail); Upchurch, James (E-mail); Wayne Davis (E-mail)
Cc: Wilner, Marcus; Barren, Loretta
Subject: Triad PM2.5 NA Area PM2.5 Conformity Followup Planning Session

Scott.

Some of the Triad Area partners have expressed an interest in having a meeting to further discuss the Triad Area PM2.5 conformity process roles and responsibilities. This meeting needs to take place in the near future. Other topics for discussion are the date for kickoff IC meeting and

associated work tasks that need to take place prior to the meeting.

The following dates are currently free on my calendar: June 2,3,7 & 8.

The PART facility might be a good location for the meeting.

Check and see what dates might be convenient for the Triad partners and notify them of the meeting date and location.

If you have any questions or need any assistance, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: **FW: Signed May 2, 2005: Transportation Conformity Amendments that Address PM 2.5 Precursors**
Date: Mon, 2 May 2005 16:28:48 -0400
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "A R Sharp Jr" <asharp@centralina.org>,
"Alena Cook \(E-mail\)" <arcook@dot.state.nc.us>, "Ann Whitley" <awhitley@ucpcog.org>,
"Anna Meares" <apmeares@dot.state.nc.us>,
"Beverly Williams" <bevwilliams@dot.state.nc.us>,
"Bill Eaker \(E-mail\)" <bill@landofsky.org>, "Bill Gibson" <bill@regiona.org>,
"Billy Leggett" <brleggett@msn.com>, "Chris May" <cmay@capefearcog.org>,
"Chris Rountree" <rountreec@halifaxnc.com>,
"Dan Thomas \(E-mail\)" <danthomas@dot.state.nc.us>,
"Dana Stoogenke \(E-mail\)" <dstoogenke@mccog.org>,
"David Baird \(E-mail\)" <dbaird@regiond.org>, "Dee Freeman" <deefree@tjcog.org>,
"Don Eggert" <deggert@capefearcog.org>,
"Earlene Thomas" <ewthomas@dot.state.nc.us>,
"Faye Lewis \(E-mail\)" <flewis@mccog.org>,
"Gene Foxworth \(E-mail\)" <GFoxworth@mideastcom.org>,
"Geraldine Dumas" <gdumas@kerrtarcog.org>, "Greg Godard" <ggodard@ucpcog.org>,
"Gregory Christo \(E-mail\)" <gchristo@regionc.org>,
"Hanna Cockburn" <hcockburn@ptcog.org>,
"Jake Gilmer \(E-mail\)" <jake@landofsky.org>,
"James A Daughtry" <jdaughtry@eccog.org>,
"James Caldwell" <jcaldwell@fayetteville.net>,
"Janet Robertson" <jfr@mail.lrcog.dst.nc.us>,
"Jim Stokoe \(E-mail\)" <jim@landofsky.org>,
"Joe McKinney" <jmckinney@landofsky.org>,
"John C Marshall" <john.marshall@wpcog.org>,
"John Hodges-Copple" <johnhc@tjcog.org>, "Joseph Dooley" <JDooley@mideastcom.org>,
"Judy Hills" <jhills@eccog.org>, "Karen Roberson" <kroberson@dot.state.nc.us>,
"Katherine English \(E-mail\)" <kenglish@dot.state.nc.us>,
"Kay Rose" <bkr27944@yahoo.com>, "Kurt Freitag \(E-mail\)" <kfreitag@dot.state.nc.us>,
"Linda Dosse" <ldosse@dot.state.nc.us>, "Linh Nguyen" <lnguyen@dot.state.nc.us>,
"Lydia McIntyre \(E-mail\)" <lydia.mcintyre@ci.greensboro.nc.us>,
"Marc Allred \(E-mail\)" <mallred@nwpcog.org>,
"Matt Roark \(E-mail\)" <matt@regiona.org>,
"Matthew Dolge" <mdolge@nwpcog.dst.nc.us>, "Neil Mallory" <nmallory@kerrtarcog.org>,
"Nicole Hay \(E-mail\)" <nhay@nwpcog.org>, "Pat Strong \(E-mail\)" <pstrong@tjcog.org>,
"Paul Hughes" <phughes@regionc.org>, "Paul Kron" <pkron@ptcog.org>,
"Paula Sloneker \(E-mail\)" <psloneker@ptcog.org>, "Phillip Trew" <ptrew@regiond.org>,
"Randy Billings" <rbillings@ptcog.org>,
"Rebecca Yarbrough" <ryarbrough@centralina.org>,
"Sarah Smith \(E-mail\)" <sarahsmith@dot.state.nc.us>,
"Shelby Powell" <spowell@kerrtarcog.org>, "Tim Ware" <tware@mideastcom.org>,
"Walston, Scott \(E-mail\)" <walston@dot.state.nc.us>,
"Xiao-dan Qiu" <Xqiu@centralina.org>,
"Andy Grzymski \(E-mail\)" <agrzymski@ci.charlotte.nc.us>,

"Baechtold, Dan" <DanB@mail.ci.asheville.nc.us>,
"Chapman, Maurizia \(E-mail\)" <mchapman@co.cumberland.nc.us>,
"Conrad, Phil" <pconrad@mblsolution.com>,
"Craig Hughes \(E-mail\)" <craig.hughes@ci.high-point.nc.us>,
"D. Best \(E-mail\)" <dbest@ci.goldsboro.nc.us>,
"Ed Johnson \(E-mail\)" <Ed.Johnson@ci.raleigh.nc.us>,
"Eldewins Haynes \(E-mail\)" <ehaynes@ci.charlotte.nc.us>,
"Errett, Gregory" <GREGE@cityofws.org>,
"Hank Graham \(E-mail\)" <hankg@cityofgastonia.com>,
"Harkrader, Bob" <bharkrader@ci.burlington.nc.us>,
"Heicksen, Rick" <rheicksen@co.cumberland.nc.us>,
"Janique Evans \(E-mail\)" <jevans@co.cumberland.nc.us>,
"Jason Thompson \(E-mail\)" <jasont@cityofgastonia.com>,
"Kenneth Withrow \(E-mail\)" <Kenneth.Withrow@ci.raleigh.nc.us>,
"Lakesha Dunbar \(E-mail\)" <lakeshad@cityofws.org>,
"League, Bob" <league@ci.rocky-mount.nc.us>,
"mcdonald, david \(E-mail\)" <dmcdonald@ci.charlotte.nc.us>,
"Meyer, Tyler" <tyler.meyer@ci.greensboro.nc.us>,
"Nunn, Mike" <mnunn@mblsolution.com>, "Nwoko, Felix" <fnwoko@ci.durham.nc.us>,
"Peggy Holland \(E-mail\)" <peggy.holland@ci.greensboro.nc.us>,
"Robert Cook \(E-mail\)" <rwcook@ci.charlotte.nc.us>,
"Rogers, Danny" <drogers@ci.charlotte.nc.us>,
"Rogers, Rhonda" <rrogers@ci.jacksonville.nc.us>,
"Sovich, Jeff" <jeffrey.sovich@ci.greensboro.nc.us>,
"Terry Arellano \(E-mail\)" <tarellano@dot.state.nc.us>,
"Tim Gibbs \(E-mail\)" <tgibbs@ci.charlotte.nc.us>,
"Timothy Joel Strickland \(E-mail\)" <tstrickland@co.cumberland.nc.us>,
"Tippett, John" <john.tippett@wpcog.org>,
"Tysinger, Tom" <ttysinger@ci.greenville.nc.us>,
"Wally Hansen \(E-mail\)" <whansen@ci.jacksonville.nc.us>,
"Adam Snipes \(E-mail\)" <asnipes@dot.state.nc.us>,
"Anson Gock \(E-mail\)" <agock@dot.state.nc.us>,
"Chandler, Vicki" <Vicki.chandler@ncmail.net>,
"Ellen Beckmann \(E-mail\)" <ebeckmann@dot.state.nc.us>,
"Hildebrandt, Heather" <heather.hildebrandt@ncmail.net>,
"Holman, Sheila" <Sheila.Holman@ncmail.net>,
"Hutchings, Debi" <dhutchings@dot.state.nc.us>,
"Jamal Alavi \(E-mail\)" <jalavi@dot.state.nc.us>,
"Jonathan Parker \(E-mail\)" <jhparker@dot.state.nc.us>,
"Laura Boothe \(E-mail\)" <laura.boothe@ncmail.net>,
"Mike Abraczinskas \(E-mail\)" <michael.abraczinskas@ncmail.net>,
"Mike Bruff \(E-mail\)" <mbruff@dot.state.nc.us>,
"Monica Kerr \(E-mail\)" <mkerr@dot.state.nc.us>,
"Norowzi, Behshad" <bnorowzi@dot.state.nc.us>,
"Orr, Mike \(E-mail\)" <mlorr@dot.state.nc.us>,
"Pat Bello \(E-mail\)" <Pat.Bello@ncmail.net>,
"Phyllis Jones \(E-mail\)" <Phyllis.D.Jones@ncmail.net>,
"Shannon Ransom \(E-mail\)" <sransom@dot.state.nc.us>,

"Tamra Shaw \(E-mail\)" <tshaw@dot.state.nc.us>,
"Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Walker, Steve" <swalker@dot.state.nc.us>,
"Wayne Davis \(E-mail\)" <wcdavis@dot.state.nc.us>

FYI
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Benjamin.Lynorae@epamail.epa.gov
[mailto:Benjamin.Lynorae@epamail.epa.gov]
Sent: Monday, May 02, 2005 3:45 PM
To: Jones, Latoya; Gonzalez, Carlos; Edwards, Andrew; Azizi, Max; Barren, Loretta; Davis, Veronica; Wilner, Marcus; Dixon, Chetna; Hinton, Daniel; Roberts, Michael; Hutchins, Theresa; Dupont, Bernadette; Bluhm, Maureen; Harris, David; Buchanan-Smith, Henrika <FTA>; McNeil, Alex <FTA>; Frate, Doug <FTA>; elizabeth.miller@fta.dot.gov; Dancausse, Edward; sabrind.david@fhwa.dot.gov
Cc: Laurita.Matthew@epamail.epa.gov; Benjamin.Lynorae@epamail.epa.gov
Subject: Signed May 2, 2005: Transportation Conformity Amendments that Address PM 2.5 Precursors

Hello All,

Earlier today, EPA signed a final rule that addresses PM2.5 precursor emissions in transportation conformity. Specifically, the final rule adds the following transportation-related PM2.5 precursors to the transportation conformity regulations: nitrogen oxides (NOx), volatile organic compounds (VOCs), sulfur oxides (SOx), and ammonia (NH3). The final rule also specifies when each of these precursors must be considered in conformity determinations in PM2.5 nonattainment and maintenance areas before and after PM2.5 state air quality implementation plans (SIPs) are submitted.

Attached is a copy of the final rule that was signed: (See attached file: PM2.5precursors_050502_FINAL.pdf)

We will be posting this rule and a fact sheet that provides general information about the rulemaking on our website within the next day. EPA's conformity website can be found at:
http://www.epa.gov/otaq/transp/traqconf.htm

Please forward this email to interagency groups and transportation contacts in your areas.

I hope your day is going well.

Lynorae Benjamin, Environmental Engineer
U.S. Environmental Protection Agency, Region 4
Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303

email: benjamin.lynorae@epa.gov
phone: (404) 562-9040
fax: (404) 562-9019

PM2.5precursors_050502_FINAL.pdf	**Name:** PM2.5precursors_050502_FINAL.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64 **Description:** PM2.5precursors_050502_FINAL.pdf

Subject: **Meeting reminder - Triad PM2.5 IC Meeting Material**
Date: Fri, 8 Jul 2005 10:27:10 -0400
From: "Scott Rhine" <scottr@partnc.org>
To: "'Scott Rhine'" <scottr@partnc.org>, <wood.amanetta@epa.gov>, <Phyllis.D.Jones@ncmail.net>, <Pat.Bello@ncmail.net>, <Vicki.Chandler@ncmail.net>, "Alena Cook" <arcook@dot.state.nc.us>, "Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>, <Benjamin.Lynorae@epamail.epa.gov>, "Bill Marley \(E-mail\)" <bill.marley@fhwa.dot.gov>, <burlmpo@ci.burlington.nc.us>, "Cary Gentry" <gentrycd@forsyth.cc>, "'Craig Hughes'" <craig.hughes@ci.high-point.nc.us>, <Edward.Dancausse@fhwa.dot.gov>, "Greg Errett" <grege@cityofws.org>, "Guy Cornman" <gcornman@co.davidson.nc.us>, "Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>, "Heather Hildebrandt" <heather.hildebrandt@ncmail.net>, "'Holland, Peggy'" <Peggy.Holland@ci.greensboro.nc.us>, "James Upchurch \(E-mail\)" <jhupchurch@dot.state.nc.us>, <LAKESHAD@cityofws.org>, "Laura Boothe" <Laura.Boothe@ncmail.net>, "Lydia McIntyre" <lydia.mcintyre@greensboro.nc.us>, "Marcus Wilner" <marcus.wilner@fhwa.dot.gov>, "michael abraczinskas" <michael.abraczinskas@ncmail.net>, "Michael Abuya" <mrabuya@dot.state.nc.us>, <mkerr@dot.state.nc.us>, "Patrick Reagan" <reaganpa@forsyth.cc>, "Phil Wylie" <Phil.Wylie@ci.high-point.nc.us>, <scottr@partnc.org.>, "Tyler Meyer" <tyler.meyer@ci.greensboro.nc.us>, "'Wayne Davis'" <wcdavis@dot.state.nc.us>, "Wendy Miller" <WENDYM@cityofws.org>
CC: "'Brent McKinney'" <brentm@partnc.org>

A little reminder that next Tuesday we will have our IC meeting for the Triad PM2.5 Air Quality Conformity. For those in the Triad traveling to Raleigh; PART will have a van available for usage if you would like to vanpool down together. The van will leave by 8:15am from the PART office. If you have any questions please contact me at your convenience. Have a great weekend!

Scott Rhine

From: Scott Rhine [mailto:scottr@partnc.org]
Sent: Friday, June 24, 2005 1:57 PM
To: 'wood.amanetta@epa.gov'; 'Phyllis.D.Jones@ncmail.net'; 'Pat.Bello@ncmail.net'; 'Vicki.Chandler@ncmail.net'; Alena Cook; Behshad Norowzi (E-mail); Benjamin.Lynorae@epamail.epa.gov; Bill Marley (E-mail); burlmpo@ci.burlington.nc.us; Cary Gentry; 'Craig Hughes'; Edward.Dancausse@fhwa.dot.gov; Greg Errett; Guy Cornman; Hanna Cockburn (E-mail); Heather Hildebrandt; 'Holland, Peggy'; James Upchurch (E-mail); LAKESHAD@cityofws.org; Laura Boothe; Lydia McIntyre; Marcus Wilner; michael abraczinskas; Michael Abuya; mkerr@dot.state.nc.us; Patrick Reagan; Phil Wylie; scottr@partnc.org.; Tyler Meyer; 'Wayne Davis'; Wendy Miller
Cc: 'Brent McKinney'
Subject: Triad PM2.5 IC Meeting Material

Ladies, and gentlemen. Attached is our agenda, schedule, and consensus plan to be discussed at our upcoming IC meeting on July 12, 2005. For our partners in Atlanta, please take note of the video conference center assigned for your participation; listed on the agenda.

Thank you to all those that helped me pull all this information together. If you have any questions on the attached please don't hesitate to contact me at your convenience. Have a great day, and wonderful weekend.

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

Triad Region PM2 5 TCPCP.doc	**Name:** Triad Region PM2 5 TCPCP.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

PM 2 5 mtg agenda.doc	**Name:** PM 2 5 mtg agenda.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Triad-PM2.5 Schedule.pdf	**Name:** Triad-PM2.5 Schedule.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

Subject: **Joint Hickory and Triad PM 2.5 IC meeting - August 31, 2005**
Date: Thu, 18 Aug 2005 13:23:31 -0400
From: "Scott Rhine" <scottr@partnc.org>
To: <bevwilliams@dot.state.nc.us>, <lnguyen@dot.state.nc.us>, <john.tippett@wpcog.org>, <john.marshall@wpcog.org>, <doug.frate@fta.dot.gov>, "Alena Cook" <arcook@dot.state.nc.us>, "Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>, <Benjamin.Lynorae@epamail.epa.gov>, "Bill Marley \(E-mail\)" <bill.marley@fhwa.dot.gov>, <burlmpo@ci.burlington.nc.us>, "Cary Gentry" <gentrycd@forsyth.cc>, "'Craig Hughes'" <craig.hughes@ci.high-point.nc.us>, <Edward.Dancausse@fhwa.dot.gov>, "Greg Errett" <grege@cityofws.org>, "Guy Cornman" <gcornman@co.davidson.nc.us>, "Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>, "Heather Hildebrandt" <heather.hildebrandt@ncmail.net>, "'Holland, Peggy'" <Peggy.Holland@ci.greensboro.nc.us>, "James Upchurch \(E-mail\)" <jhupchurch@dot.state.nc.us>, <LAKESHAD@cityofws.org>, "Laura Boothe" <Laura.Boothe@ncmail.net>, "'Loretta Barren'" <loretta.barren@fhwa.dot.gov>, "'Lydia McIntyre'" <lydia.mcintyre@ci.greensboro.nc.us>, "Marcus Wilner" <marcus.wilner@fhwa.dot.gov>, "michael abraczinskas" <michael.abraczinskas@ncmail.net>, "Michael Abuya" <mrabuya@dot.state.nc.us>, "'Michelle Farmer'" <mfarmer@dot.state.nc.us>, <mkerr@dot.state.nc.us>, "Patrick Reagan" <reaganpa@forsyth.cc>, "Phil Wylie" <Phil.Wylie@ci.high-point.nc.us>, "'Phyllis Jones'" <phyllis.jones@ncmail.net>, <ricka@lexingtonnc.net>, <scottr@partnc.org.>, "Tyler Meyer" <tyler.meyer@ci.greensboro.nc.us>, "'Van Sullivan'" <sullivanva@forsyth.cc>, "'Wayne Davis'" <wcdavis@dot.state.nc.us>, "Wendy Miller" <WENDYM@cityofws.org>, <wood.amanetta@epa.gov>

The Interagency Consultation meeting to discuss EPA's PM 2.5 guidance is scheduled for Aug. 31 form 10:30 to 12:30 at the Burlington Train Depot (Shops at the Depot). We are expecting to have only our Atlanta partners calling into the meeting, therefore we have a single call in number (336) 229-4084.

Please be prepared to discuss the guidance and related questions, brief update regarding progress thus far and any remaining action items.

If you have any questions prior to the meeting, please contact me. Driving directions are below:

From I-40/85, take exit #143

Turn toward downtown (toward Home Depot), and take a right on S. Mebane Street. Follow South Mebane St., and take a left on E. Webb Street (Hwy. 87/ Hwy. 100). Train Depot is on your right. 101 N. Main Street, Burlington, NC 27217

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

Subject: **[Fwd: Joint Hickory and Triad PM 2.5 IC meeting - August 31, 2005]**
Date: Tue, 30 Aug 2005 10:36:43 -0400
From: Behshad Norowzi <bnorowzi@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: James Upchurch <jhupchurch@dot.state.nc.us>

Subject: **Joint Hickory and Triad PM 2.5 IC meeting - August 31, 2005**
Date: Thu, 18 Aug 2005 13:23:31 -0400
From: "Scott Rhine" <scottr@partnc.org>
To: <bevwilliams@dot.state.nc.us>, <lnguyen@dot.state.nc.us>, <john.tippett@wpcog.org>, <john.marshall@wpcog.org>, <doug.frate@fta.dot.gov>, "Alena Cook" <arcook@dot.state.nc.us>, "Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>, <Benjamin.Lynorae@epamail.epa.gov>, "Bill Marley \(E-mail\)" <bill.marley@fhwa.dot.gov>, <burlmpo@ci.burlington.nc.us>, "Cary Gentry" <gentrycd@forsyth.cc>, "'Craig Hughes'" <craig.hughes@ci.high-point.nc.us>, <Edward.Dancausse@fhwa.dot.gov>, "Greg Errett" <grege@cityofws.org>, "Guy Cornman" <gcornman@co.davidson.nc.us>, "Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>, "Heather Hildebrandt" <heather.hildebrandt@ncmail.net>, "'Holland, Peggy'" <Peggy.Holland@ci.greensboro.nc.us>, "James Upchurch \(E-mail\)" <jhupchurch@dot.state.nc.us>, <LAKESHAD@cityofws.org>, "Laura Boothe" <Laura.Boothe@ncmail.net>, "'Loretta Barren'" <loretta.barren@fhwa.dot.gov>, "'Lydia McIntyre'" <lydia.mcintyre@ci.greensboro.nc.us>, "Marcus Wilner" <marcus.wilner@fhwa.dot.gov>, "michael abraczinskas" <michael.abraczinskas@ncmail.net>, "Michael Abuya" <mrabuya@dot.state.nc.us>, "'Michelle Farmer'" <mfarmer@dot.state.nc.us>, <mkerr@dot.state.nc.us>, "Patrick Reagan" <reaganpa@forsyth.cc>, "Phil Wylie" <Phil.Wylie@ci.high-point.nc.us>, "'Phyllis Jones'" <phyllis.jones@ncmail.net>, <ricka@lexingtonnc.net>, <scottr@partnc.org.>, "Tyler Meyer" <tyler.meyer@ci.greensboro.nc.us>, "'Van Sullivan'" <sullivanva@forsyth.cc>, "'Wayne Davis'" <wcdavis@dot.state.nc.us>, "Wendy Miller" <WENDYM@cityofws.org>, <wood.amanetta@epa.gov>

The Interagency Consultation meeting to discuss EPA's PM 2.5 guidance is scheduled for Aug. 31 form 10:30 to 12:30 at the Burlington Train Depot (Shops at the Depot). We are expecting to have only our Atlanta partners calling into the meeting, therefore we have a single call in number (336) 229-4084.

Please be prepared to discuss the guidance and related questions, brief update regarding progress thus far and any remaining action items.

If you have any questions prior to the meeting, please contact me. Driving directions are below:

From I-40/85, take exit #143

Turn toward downtown (toward Home Depot), and take a right on S. Mebane Street. Follow South Mebane St., and take a left on E. Webb Street (Hwy. 87/ Hwy. 100). Train Depot is on your right. 101 N. Main Street, Burlington, NC 27217

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

Subject: **Re: AGENDA-Joint Hickory and Triad PM 2.5 IC meeting - August 31, 2005**
Date: Tue, 30 Aug 2005 14:43:35 -0400
From: Mike Abraczinskas <Michael.Abraczinskas@ncmail.net>
Organization: NC Division of Air Quality
To: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
CC: Scott Rhine <scottr@partnc.org>, bevwilliams@dot.state.nc.us,
lnguyen@dot.state.nc.us, john.tippett@wpcog.org, john.marshall@wpcog.org,
"Frate, Doug <FTA>" <Doug.Frate@fta.dot.gov>,
Alena Cook <arcook@dot.state.nc.us>,
"Behshad Norowzi (E-mail)" <bnorowzi@dot.state.nc.us>,
Benjamin.Lynorae@epamail.epa.gov, "Marley, Bill" <Bill.Marley@fhwa.dot.gov>,
burlmpo@ci.burlington.nc.us, Cary Gentry <gentrycd@forsyth.cc>,
Craig Hughes <craig.hughes@ci.high-point.nc.us>,
Greg Errett <grege@cityofws.org>, Guy Cornman <gcornman@co.davidson.nc.us>,
"Hanna Cockburn (E-mail)" <hcockburn@ptcog.org>,
Heather Hildebrandt <heather.hildebrandt@ncmail.net>,
"Holland, Peggy" <Peggy.Holland@ci.greensboro.nc.us>,
"James Upchurch (E-mail)" <jhupchurch@dot.state.nc.us>, LAKESHAD@cityofws.org,
Laura Boothe <Laura.Boothe@ncmail.net>,
"Barren, Loretta" <Loretta.Barren@fhwa.dot.gov>,
Lydia McIntyre <lydia.mcintyre@ci.greensboro.nc.us>,
"Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>,
Michael Abuya <mrabuya@dot.state.nc.us>,
Michelle Farmer <mfarmer@dot.state.nc.us>, mkerr@dot.state.nc.us,
Patrick Reagan <reaganpa@forsyth.cc>,
Phil Wylie <Phil.Wylie@ci.high-point.nc.us>,
Phyllis Jones <phyllis.jones@ncmail.net>, ricka@lexingtonnc.net,
Tyler Meyer <tyler.meyer@ci.greensboro.nc.us>,
Van Sullivan <sullivanva@forsyth.cc>, Wayne Davis <wcdavis@dot.state.nc.us>,
Wendy Miller <WENDYM@cityofws.org>, wood.amanetta@epa.gov,
"Derry Schmidt (E-mail)" <daschmidt@dot.state.nc.us>,
"Cynthia Muldrow (E-mail)" <cdmuldrow@dot.state.nc.us>,
Phyllis D Jones <Phyllis.D.Jones@ncmail.net>

Hello everyone.
Attached you'll find the 3 presentations that I will go over at tomorrow's meeting/call.

The 3 presentations are fairly similar in format, but different in that they contain data specific to each county.
So there's one ppt for each county... Catawba, Davidson, Guilford.

We'll discuss tomorrow.
-Mike
--
Mike Abraczinskas
NC Division of Air Quality
Attainment Planning Branch

1641 Mail Service Center
Raleigh, NC 27699-1641
P: 919-715-3743
F: 919-715-7476
E: michael.abraczinskas@ncmail.net
http://daq.state.nc.us

"Dancausse, Edward" wrote:

Attached is the agenda for the interagency consultation meeting.If you have any questions, please let me know.Eddie **Edward J. Dancausse**
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

PART
piedmont authority for regional transportation

-----Original Message-----
From: Scott Rhine [mailto:scottr@partnc.org]
Sent: Thursday, August 18, 2005 1:24 PM
To: bevwilliams@dot.state.nc.us; lnguyen@dot.state.nc.us; john.tippett@wpcog.org; john.marshall@wpcog.org; Frate, Doug <FTA>; Alena Cook; Behshad Norowzi (E-mail); Benjamin.Lynorae@epamail.epa.gov; Marley, Bill; burlmpo@ci.burlington.nc.us; Cary Gentry; 'Craig Hughes'; Dancausse, Edward; Greg Errett; Guy Cornman; Hanna Cockburn (E-mail); Heather Hildebrandt; 'Holland, Peggy'; James Upchurch (E-mail); LAKESHAD@cityofws.org; Laura Boothe; Barren, Loretta; 'Lydia McIntyre'; Wilner, Marcus; michael abraczinskas; Michael Abuya; 'Michelle Farmer'; mkerr@dot.state.nc.us; Patrick Reagan; Phil Wylie; 'Phyllis Jones'; ricka@lexingtonnc.net; scottr@partnc.org.; Tyler Meyer; 'Van Sullivan'; 'Wayne Davis'; Wendy Miller; wood.amanetta@epa.gov
Subject: Joint Hickory and Triad PM 2.5 IC meeting - August 31, 2005

The Interagency Consultation meeting to discuss EPA's PM 2.5 guidance is scheduled for Aug. 31 form 10:30 to 12:30 at the Burlington Train Depot (Shops at the Depot). We are expecting to have only our Atlanta partners calling into the meeting, therefore we have a single call in number (336) 229-4084.

Please be prepared to discuss the guidance and related questions, brief update regarding progress thus far and any remaining action items.

If you have any questions prior to the meeting, please contact me. Driving directions are below:

From I-40/85, take exit #143

Turn toward downtown (toward Home Depot), and take a right on S. Mebane Street. Follow South Mebane St., and take a left on E. Webb Street (Hwy. 87/ Hwy. 100). Train Depot is on your right. 101 N. Main Street, Burlington, NC 27217 Scott W. RhinePrograms Manager7800 Airport Center Dr., Ste. 102Greensboro, NC 27409336/662-0002336/662-9253 Faxscottr@partnc.orgwww.partnc.org

NCDAQ_PM2.5_mobile_significance_Catawba.ppt	**Name:** NCDAQ_PM2.5_mobile_significance_ **Type:** Microsoft PowerPoint Show (application/vnd.ms-powerpoint) **Encoding:** base64

NCDAQ_PM2.5_mobile_significance_Davidson.ppt	**Name:** NCDAQ_PM2.5_mobile_significance_ **Type:** Microsoft PowerPoint Show (application/vnd.ms-powerpoint) **Encoding:** base64

NCDAQ_PM2.5_mobile_significance_Guilford.ppt	**Name:** NCDAQ_PM2.5_mobile_significance_(**Type:** Microsoft PowerPoint Show (application/vnd.ms-powerpoint) **Encoding:** base64

Subject: **AGENDA-Joint Hickory and Triad PM 2.5 IC meeting - August 31, 2005**
Date: Tue, 30 Aug 2005 11:19:54 -0400
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "Scott Rhine" <scottr@partnc.org>, <bevwilliams@dot.state.nc.us>, <lnguyen@dot.state.nc.us>, <john.tippett@wpcog.org>, <john.marshall@wpcog.org>, "Frate, Doug <FTA>" <Doug.Frate@fta.dot.gov>, "Alena Cook" <arcook@dot.state.nc.us>, "Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>, <Benjamin.Lynorae@epamail.epa.gov>, "Marley, Bill" <Bill.Marley@fhwa.dot.gov>, <burlmpo@ci.burlington.nc.us>, "Cary Gentry" <gentrycd@forsyth.cc>, "Craig Hughes" <craig.hughes@ci.high-point.nc.us>, "Greg Errett" <grege@cityofws.org>, "Guy Cornman" <gcornman@co.davidson.nc.us>, "Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>, "Heather Hildebrandt" <heather.hildebrandt@ncmail.net>, "Holland, Peggy" <Peggy.Holland@ci.greensboro.nc.us>, "James Upchurch \(E-mail\)" <jhupchurch@dot.state.nc.us>, <LAKESHAD@cityofws.org>, "Laura Boothe" <Laura.Boothe@ncmail.net>, "Barren, Loretta" <Loretta.Barren@fhwa.dot.gov>, "Lydia McIntyre" <lydia.mcintyre@ci.greensboro.nc.us>, "Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>, "michael abraczinskas" <michael.abraczinskas@ncmail.net>, "Michael Abuya" <mrabuya@dot.state.nc.us>, "Michelle Farmer" <mfarmer@dot.state.nc.us>, <mkerr@dot.state.nc.us>, "Patrick Reagan" <reaganpa@forsyth.cc>, "Phil Wylie" <Phil.Wylie@ci.high-point.nc.us>, "Phyllis Jones" <phyllis.jones@ncmail.net>, <ricka@lexingtonnc.net>, <scottr@partnc.org.>, "Tyler Meyer" <tyler.meyer@ci.greensboro.nc.us>, "Van Sullivan" <sullivanva@forsyth.cc>, "Wayne Davis" <wcdavis@dot.state.nc.us>, "Wendy Miller" <WENDYM@cityofws.org>, <wood.amanetta@epa.gov>
CC: "Derry Schmidt \(E-mail\)" <daschmidt@dot.state.nc.us>, "Cynthia Muldrow \(E-mail\)" <cdmuldrow@dot.state.nc.us>

Attached is the agenda for the interagency consultation meeting.

If you have any questions, please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Scott Rhine [mailto:scottr@partnc.org]
Sent: Thursday, August 18, 2005 1:24 PM
To: bevwilliams@dot.state.nc.us; lnguyen@dot.state.nc.us; john.tippett@wpcog.org; john.marshall@wpcog.org; Frate, Doug <FTA>; Alena Cook; Behshad Norowzi (E-mail); Benjamin.Lynorae@epamail.epa.gov; Marley, Bill; burlmpo@ci.burlington.nc.us; Cary Gentry; 'Craig Hughes'; Dancausse, Edward; Greg Errett; Guy Cornman; Hanna Cockburn (E-mail); Heather Hildebrandt; 'Holland, Peggy'; James Upchurch (E-mail); LAKESHAD@cityofws.org; Laura Boothe; Barren, Loretta; 'Lydia McIntyre'; Wilner, Marcus; michael abraczinskas; Michael Abuya; 'Michelle Farmer'; mkerr@dot.state.nc.us; Patrick Reagan; Phil Wylie; 'Phyllis Jones'; ricka@lexingtonnc.net; scottr@partnc.org.; Tyler Meyer; 'Van Sullivan'; 'Wayne Davis'; Wendy Miller; wood.amanetta@epa.gov
Subject: Joint Hickory and Triad PM 2.5 IC meeting - August 31, 2005

The Interagency Consultation meeting to discuss EPA's PM 2.5 guidance is scheduled for Aug. 31 form 10:30 to 12:30 at the Burlington Train Depot (Shops at the Depot). We are expecting to have only our Atlanta partners calling into the meeting, therefore we have a single call in number (336) 229-4084.

Please be prepared to discuss the guidance and related questions, brief update regarding progress thus far and any remaining action items.

If you have any questions prior to the meeting, please contact me. Driving directions are below:

From I-40/85, take exit #143

Turn toward downtown (toward Home Depot), and take a right on S. Mebane Street. Follow South Mebane St., and take a left on E. Webb Street (Hwy. 87/ Hwy. 100). Train Depot is on your right. 101 N. Main Street, Burlington, NC 27217

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

PM 2 5 mtg agenda 8_31_05.doc	**Name:** PM 2 5 mtg agenda 8_31_05.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64 **Description:** PM 2 5 mtg agenda 8_31_05.doc

Subject: **Updated Draft PM2.5 SCH for Triad**
Date: Mon, 12 Sep 2005 11:31:30 -0400
From: Behshad Norowzi <bnorowzi@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: "scottr@partnc.org" <scottr@partnc.org> ,
James Upchurch <jhupchurch@dot.state.nc.us> ,
"Derry A. Schmidt" <daschmidt@dot.state.nc.us> ,
Cynthia Muldrow <cdmuldrow@dot.state.nc.us> ,
Eddie Dancausse <Edward.Dancausse@fhwa.dot.gov>

```
Hi,
Please see the attached file and let me know if there is any
question or concern.
Thanks,
Behshad
```

Triad-PM2.5-09-12-05.pdf	**Name:** Triad-PM2.5-09-12-05.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

Subject: **Catawba and Triad PM2.5 Updated Material**
Date: Tue, 13 Sep 2005 09:51:49 -0400
From: "Scott Rhine" <scottr@partnc.org>
To: <sullivvk@forsyth.cc>, <john.tippett@wpcog.org>, <taylor.dellinger@wpcog.org>, <daschmidt@dot.state.nc.us>, <lnguyen@dot.state.nc.us>, <bevwilliams@dot.state.nc.us>, <doug.frate@fta.dot.gov>, "Alena Cook" <arcook@dot.state.nc.us>, "Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>, <Benjamin.Lynorae@epamail.epa.gov>, "Bill Marley \(E-mail\)" <bill.marley@fhwa.dot.gov>, <burlmpo@ci.burlington.nc.us>, "Cary Gentry" <gentrycd@forsyth.cc>, "'Craig Hughes'" <craig.hughes@ci.high-point.nc.us>, <Edward.Dancausse@fhwa.dot.gov>, "Greg Errett" <grege@cityofws.org>, "Guy Cornman" <gcornman@co.davidson.nc.us>, "Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>, "Heather Hildebrandt" <heather.hildebrandt@ncmail.net>, "'Holland, Peggy'" <Peggy.Holland@ci.greensboro.nc.us>, "James Upchurch \(E-mail\)" <jhupchurch@dot.state.nc.us>, <LAKESHAD@cityofws.org>, "Laura Boothe" <Laura.Boothe@ncmail.net>, "'Loretta Barren'" <loretta.barren@fhwa.dot.gov>, "'Lydia McIntyre'" <lydia.mcintyre@ci.greensboro.nc.us>, "Marcus Wilner" <marcus.wilner@fhwa.dot.gov>, "michael abraczinskas" <michael.abraczinskas@ncmail.net>, "Michael Abuya" <mrabuya@dot.state.nc.us>, "'Michelle Farmer'" <mrfarmer@dot.state.nc.us>, <mkerr@dot.state.nc.us>, "Patrick Reagan" <reaganpa@forsyth.cc>, "Phil Wylie" <Phil.Wylie@ci.high-point.nc.us>, "'Phyllis Jones'" <phyllis.jones@ncmail.net>, <ricka@lexingtonnc.net>, <scottr@partnc.org.>, "Tyler Meyer" <tyler.meyer@ci.greensboro.nc.us>, "'Wayne Davis'" <wcdavis@dot.state.nc.us>, "Wendy Miller" <WENDYM@cityofws.org>, <wood.amanetta@epa.gov>

Attached are the meeting minutes, updated TCPCP plans, Schedules, and Power point presentations presented by NCDENR-DAQ from our Aug., 31, 2005 IC meeting.

Please retain all files that pertain to your area. If you have any questions, please contact either myself, Eddie, or Loretta.

For the Triad participants are next actions are compilation of Regionally significant projects, Exempt and Non-Regionally significant projects, and Transportation modeling. Please take the necessary action for completion of these tasks. I will be contacting those persons directly form each MPO, and NCDOT to discuss. Thank you, and have a great day.

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

Catawba PM 2.5 PCPlan.doc	**Name:** Catawba PM 2.5 PCPlan.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Catawba-PM2.5 schedule.pdf	**Name:** Catawba-PM2.5 schedule.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

NCDAQ_PM2.5_mobile_significance_Catawba.ppt	**Name:** NCDAQ_PM2.5_mobile_significance_ **Type:** Microsoft PowerPoint Show (application/vnd.ms-powerpoint) **Encoding:** base64

NCDAQ_PM2.5_mobile_significance_Guilford.ppt	**Name:** NCDAQ_PM2.5_mobile_significance_(**Type:** Microsoft PowerPoint Show (application/vnd.ms-powerpoint) **Encoding:** base64

NCDAQ_PM2.5_mobile_significance_Davidson.ppt	**Name:** NCDAQ_PM2.5_mobile_significance_ **Type:** Microsoft PowerPoint Show (application/vnd.ms-powerpoint) **Encoding:** base64

PM 2 5 mtg agenda 8_31_05 and MINUTES_.doc	**Name:** PM 2 5 mtg agenda 8_31_05 and MINUTES_.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Triad-PM2 5-09-12-05 Schedule.pdf	**Name:** Triad-PM2 5-09-12-05 Schedule.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

Triad Region PM2 5 TCPCP.doc	**Name:** Triad Region PM2 5 TCPCP.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Subject: **Reply Requested by 9/23/05: Triad PM2.5 Conformity Process: Review of Regionally Significant/Exempt Projects and 2030 LRTP/06-12 TIP Comparison**
Date: Tue, 20 Sep 2005 15:10:44 -0400
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "Heather Hildebrandt \(E-mail\)" <heather.hildebrandt@ncmail.net>,
"Amanetta Wood \(E-mail\)" <Wood.Amanetta@epamail.epa.gov>,
"Frate, Doug <FTA>" <Doug.Frate@fta.dot.gov>
CC: "Scott Rhine \(E-mail\)" <scottr@partnc.org>,
"Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Derry Schmidt \(E-mail\)" <daschmidt@dot.state.nc.us>,
"Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>,
"Marley, Bill" <Bill.Marley@fhwa.dot.gov>,
"Craig Hughes \(E-mail\)" <craig.hughes@ci.high-point.nc.us>,
"Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>,
"Mike Nunn \(E-mail\)" <mnunn@mblsolution.com>,
"Monica Kerr \(E-mail\)" <mkerr@dot.state.nc.us>,
"Nicole Hay \(E-mail\)" <nhay@nwpcog.org>,
"Tyler Meyers \(E-mail\)" <tyler.meyer@ci.greensboro.nc.us>,
"Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Wayne Davis \(E-mail\)" <wcdavis@dot.state.nc.us>,
"Wendy Miller \(E-mail\)" <wendym@cityofws.org>,
"Gregory Errett \(E-mail\)" <GREGE@cityofws.org>,
"Benjamin, Lynorae \(E-mail\)" <Benjamin.Lynorae@epamail.epa.gov>

Heather/Amanetta/Doug,

Scott Rhine will be shortly sending out the Triad PM 2.5 project lists so that the transportation partners can review and provide comments on the regional significant and exempt projects.

At this point in the review process we also supposed to review/compare the FY 06-12 TIP to the 2030 LRTPs to ensure that the TIPs are subsets of the LRTPs. My thought is since we just completed this exercise for the FY 06-12 TIP conformity determinations due on 10/1/05, I see no need to have to go through this exercise for this conformity process. Nothing has changed (LRTP and TIPs for the Greensboro, High Point and Burlington Graham MPOs have not changed) since we last went through the comparison. I just want to make sure that everyone is in agreement with my logic on this item.

Please let me know your thoughts (agree or disagree) by 9/23/05.

If you have any questions, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: **FW: Reply Requested by 9/23/05: Triad PM2.5 Conformity Process: Review of Regionally Significant/Exempt Projects and 2030 LRTP/06-12 TIP Comparison**
Date: Tue, 29 Nov 2005 08:30:04 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>

-----Original Message-----
From: Benjamin.Lynorae@epamail.epa.gov
[mailto:Benjamin.Lynorae@epamail.epa.gov]
Sent: Wednesday, September 21, 2005 11:47 AM
To: Dancausse, Edward
Cc: Wood.Amanetta@epamail.epa.gov; Behshad Norowzi (E-mail); Craig Hughes (E-mail); Derry Schmidt (E-mail); Heather Hildebrandt (E-mail); Barren, Loretta; Lydia McIntyre (E-mail); Wilner, Marcus; Scott Rhine (E-mail)
Subject: RE: Reply Requested by 9/23/05: Triad PM2.5 Conformity Process: Review of Regionally Significant/Exempt Projects and 2030 LRTP/06-12 TIP Comparison

Hi Eddie,

Great!... I really think that it is important for the cross-referencing to be clear and transparent, and I look forward to working through this with you... one important note is that the conformity document is a public document and if it is difficult for us as reviewers to cross-referencing these projects, it must be really difficult for a member of the general public to do this as well...

I hope your day is going well.

Lynorae Benjamin, Environmental Engineer U.S. Environmental Protection Agency, Region 4 Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
email: benjamin.lynorae@epa.gov
phone: (404) 562-9040
fax: (404) 562-9019

"Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>	Amanetta Wood/R4/USEPA/US@EPA	To
09/21/2005 09:58 AM	Lynorae Benjamin/R4/USEPA/US@EPA, "Scott Rhine (E-mail)" <scottr@partnc.org>, "Barren, Loretta" <Loretta.Barren@fhwa.dot.gov>, "Lydia McIntyre (E-mail)" <lydia.mcintyre@ci.greensboro.nc.us>, "Craig Hughes (E-mail)" <craig.hughes@ci.high-point.nc.us>, *"Behshad Norowzi (E-mail)"* <bnorowzi@dot.state.nc.us>, "Derry Schmidt (E-mail)" <daschmidt@dot.state.nc.us>, "Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>, "Heather Hildebrandt (E-mail)" <heather.hildebrandt@ncmail.net>	cc
		Subject

RE: Reply Requested by 9/23/05: Triad PM2.5 Conformity Process: Review of Regionally Significant/Exempt Projects and 2030 LRTP/06-12 TIP Comparison

Amanetta,

Thanks for your reply. The MPOs will have a resolutions that will state that the TIPs are subsets of the LRTPs (for the Triad PM2.5 conformity determination).

Cross referencing the TIPs with the LRTPs is something that gets easier as you become more familiar with the areas and after you have worked through several conformity processes (this is one of the more difficult conformity review tasks). I am agreeable to having a discussion on this topic. I would suggest having a conference call on this topic prior to the beginning of the 07-13 TIP conformity process that will begin around February 2006. I will put this as an item on my task list and will set up a meeting/conference call early next year.

Take care,
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Wood.Amanetta@epamail.epa.gov
[mailto:Wood.Amanetta@epamail.epa.gov]
Sent: Tuesday, September 20, 2005 3:47 PM
To: Dancausse, Edward
Cc: Benjamin.Lynorae@epamail.epa.gov; Wood.Amanetta@epamail.epa.gov
Subject: Re: Reply Requested by 9/23/05: Triad PM2.5 Conformity Process: Review of Regionally Significant/Exempt Projects and 2030 LRTP/06-12 TIP Comparison

Hello All,

At this time, EPA agrees that since we just completed the review/compare exercise for the FY 06-12 TIP conformity determinations due on 10/1/05 that we can rely on this pass review for the upcoming PM 2.5 conformity determinations. However, we need confirmation that the TIP is a subset of the LRTP. In the future we need to get to the point where we can cross-reference the projects in the TIP with those in the LRTP on our own. We would like to schedule a time that we can discuss this situation further.

Amanetta Wood, Environmental Scientist
U.S. Environmental Protection Agency, Region 4 Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Email: wood.amanetta@epa.gov
Phone: (404) 562-9025
Fax: (404) 562-9019

"Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>

09/20/2005 03:10 PM

To
"Heather Hildebrandt (E-mail)" <heather.hildebrandt@ncmail.net>, Amanetta Wood/R4/USEPA/US@EPA, "Frate, Doug <FTA>"

cc
"Scott Rhine (E-mail)" <scottr@partnc.org>, "Behshad Norowzi (E-mail)" <bnorowzi@dot.state.nc.us>, "Derry Schmidt (E-mail)" <daschmidt@dot.state.nc.us>, "Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>, "Marley, Bill" <Bill.Marley@fhwa.dot.gov>, "Craig Hughes (E-mail)" <craig.hughes@ci.high-point.nc.us>, *"Hanna Cockburn (E-mail)"* <hcockburn@ptcog.org>, "Mike Nunn (E-mail)" <mnunn@mblsolution.com>, "Monica Kerr (E-mail)" <mkerr@dot.state.nc.us>, "Nicole Hay (E-mail)" <nhay@nwpcog.org>, "Tyler Meyers (E-mail)" <tyler.meyer@ci.greensboro.nc.us>, "Upchurch, James (E-mail)" <jhupchurch@dot.state.nc.us>, "Wayne Davis (E-mail)" <wcdavis@dot.state.nc.us>, "Wendy Miller (E-mail)" <wendym@cityofws.org>, "Gregory Errett (E-mail)" <GREGE@cityofws.org>, Lynorae Benjamin/R4/USEPA/US@EPA

Subject
Reply Requested by 9/23/05: Triad PM2.5 Conformity Process: Review of Regionally Significant/Exempt Projects and 2030 LRTP/06-12 TIP Comparison

Heather/Amanetta/Doug,

Scott Rhine will be shortly sending out the Triad PM 2.5 project lists so that the transportation partners can review and provide comments on the regional significant and exempt projects.

At this point in the review process we also supposed to review/compare the FY 06-12 TIP to the 2030 LRTPs to ensure that the TIPs are subsets of the LRTPs. My thought is since we just completed this exercise for the FY 06-12 TIP conformity determinations due on 10/1/05, I see no need to have to go through this exercise for this conformity process.
Nothing has changed (LRTP and TIPs for the Greensboro, High Point and Burlington Graham MPOs have not changed) since we last went through the comparison. I just want to make sure that everyone is in agreement with my logic on this item.

Please let me know your thoughts (agree or disagree) by 9/23/05.

If you have any questions, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: **Triad Area Conformity Update**
Date: Fri, 30 Sep 2005 08:48:31 -0400
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "Alena Cook \(E-mail\)" <arcook@dot.state.nc.us>,
"Amanetta Wood \(E-mail\)" <Wood.Amanetta@epamail.epa.gov>,
"Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Benjamin, Lynorae \(E-mail\)" <Benjamin.Lynorae@epamail.epa.gov>,
"Cary Gentry \(E-mail\)" <gentrycd@forsyth.cc>,
"Craig Hughes \(E-mail\)" <craig.hughes@ci.high-point.nc.us>,
"Dan Thomas \(E-mail\)" <danthomas@dot.state.nc.us>,
"Frate, Doug <FTA>" <Doug.Frate@fta.dot.gov>,
"Gregory Errett \(E-mail\)" <GREGE@cityofws.org>,
"Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>,
"Heather Hildebrandt \(E-mail\)" <heather.hildebrandt@ncmail.net>,
"Jamal Alavi \(E-mail\)" <jalavi@dot.state.nc.us>,
"Lydia McIntyre \(E-mail\)" <lydia.mcintyre@ci.greensboro.nc.us>,
"Marley, Bill" <Bill.Marley@fhwa.dot.gov>,
"McNeil, Alex <FTA>" <Alex.McNeil@fta.dot.gov>,
"Michael Abuya \(E-mail\)" <mrabuya@dot.state.nc.us>,
"Mike Abraczinskas \(E-mail\)" <michael.abraczinskas@ncmail.net>,
"Mike Nunn \(E-mail\)" <mnunn@mblsolution.com>,
"Monica Kerr \(E-mail\)" <mkerr@dot.state.nc.us>,
"Patrick Reagan \(E-mail\)" <reaganpa@co.forsyth.nc.us>,
"Phil Conrad \(E-mail\)" <pconrad@mblsolution.com>,
"Phyllis Jones \(E-mail\)" <Phyllis.D.Jones@ncmail.net>,
"Tyler Meyers \(E-mail\)" <tyler.meyer@ci.greensboro.nc.us>,
"Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Wayne Davis \(E-mail\)" <wcdavis@dot.state.nc.us>,
"Wendy Miller \(E-mail\)" <wendym@cityofws.org>,
"Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>

The USDOT conformity determination letter (dated 10/1/05) has been signed for the following areas:

* Winston Salem Forsyth MPO including the donut area of Davie County
* The Greensboro/High Point/Burlington Graham MPO and the donut area of Davidson County

Thanks to all the interagency partners for making this a successful process.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: **Triad PM2.5 Updated SCH**
Date: Fri, 30 Sep 2005 11:13:28 -0400
From: Behshad Norowzi <bnorowzi@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: sullivvk@forsyth.cc, john.tippett@wpcog.org, taylor.dellinger@wpcog.org, lnguyen@dot.state.nc.us, bevwilliams@dot.state.nc.us, doug.frate@fta.dot.gov, Alena Cook <arcook@dot.state.nc.us> , "Behshad Norowzi (E-mail)" <bnorowzi@dot.state.nc.us> , Benjamin.Lynorae@epamail.epa.gov, "Bill Marley (E-mail)" <bill.marley@fhwa.dot.gov> , burlmpo@ci.burlington.nc.us, Cary Gentry <gentrycd@forsyth.cc> , 'Craig Hughes' <craig.hughes@ci.high-point.nc.us> , Edward.Dancausse@fhwa.dot.gov, Greg Errett <grege@cityofws.org> , Guy Cornman <gcornman@co.davidson.nc.us> , "Hanna Cockburn (E-mail)" <hcockburn@ptcog.org> , Heather Hildebrandt <heather.hildebrandt@ncmail.net> , '"Holland, Peggy"' <Peggy.Holland@ci.greensboro.nc.us> , "James Upchurch (E-mail)" <jhupchurch@dot.state.nc.us> , LAKESHAD@cityofws.org, Laura Boothe <Laura.Boothe@ncmail.net> , 'Loretta Barren' <loretta.barren@fhwa.dot.gov> , 'Lydia McIntyre' <lydia.mcintyre@ci.greensboro.nc.us> , Marcus Wilner <marcus.wilner@fhwa.dot.gov> , michael abraczinskas <michael.abraczinskas@ncmail.net> , Michael Abuya <mrabuya@dot.state.nc.us> , 'Michelle Farmer' <mrfarmer@dot.state.nc.us> , mkerr@dot.state.nc.us, Patrick Reagan <reaganpa@forsyth.cc> , Phil Wylie <Phil.Wylie@ci.high-point.nc.us> , 'Phyllis Jones' <phyllis.jones@ncmail.net> , ricka@lexingtonnc.net, scottr@partnc.org., Tyler Meyer <tyler.meyer@ci.greensboro.nc.us> , 'Wayne Davis' <wcdavis@dot.state.nc.us> , Wendy Miller <WENDYM@cityofws.org>, wood.amanetta@epa.gov, "Derry A. Schmidt" <daschmidt@dot.state.nc.us> , Cynthia Muldrow <cdmuldrow@dot.state.nc.us> , Scott Rhine <scottr@partnc.org>

```
Greetings,
Please see the updated Draft Sch for Triad PM2.5. Please let me
know if there is any concern or question.
Thanks,
Behshad
```

Triad-PM2.5-09-28-05.pdf	**Name:** Triad-PM2.5-09-28-05.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

Subject: **Triad PM2.5 speeds**
Date: Wed, 05 Oct 2005 17:37:36 -0400
From: Behshad Norowzi <bnorowzi@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: Benjamin.Lynorae@epamail.epa.gov,
"Bill Marley (E-mail)" <bill.marley@fhwa.dot.gov> , burlmpo@ci.burlington.nc.us,
Cary Gentry <gentrycd@forsyth.cc> ,
'Craig Hughes' <craig.hughes@ci.high-point.nc.us> ,
Edward.Dancausse@fhwa.dot.gov, Greg Errett <grege@cityofws.org> ,
Guy Cornman <gcornman@co.davidson.nc.us> ,
"Hanna Cockburn (E-mail)" <hcockburn@ptcog.org> ,
Heather Hildebrandt <heather.hildebrandt@ncmail.net> ,
'"Holland, Peggy"' <Peggy.Holland@ci.greensboro.nc.us> ,
"James Upchurch (E-mail)" <jhupchurch@dot.state.nc.us> ,
LAKESHAD@cityofws.org, Laura Boothe <Laura.Boothe@ncmail.net> ,
'Loretta Barren' <loretta.barren@fhwa.dot.gov> ,
'Lydia McIntyre' <lydia.mcintyre@ci.greensboro.nc.us> ,
michael abraczinskas <michael.abraczinskas@ncmail.net> ,
Michael Abuya <mrabuya@dot.state.nc.us> ,
'Michelle Farmer' <mrfarmer@dot.state.nc.us> , mkerr@dot.state.nc.us,
Patrick Reagan <reaganpa@forsyth.cc> ,
Phil Wylie <Phil.Wylie@ci.high-point.nc.us> ,
'Phyllis Jones' <phyllis.jones@ncmail.net> , ricka@lexingtonnc.net,
scottr@partnc.org., Tyler Meyer <tyler.meyer@ci.greensboro.nc.us> ,
'Wayne Davis' <wcdavis@dot.state.nc.us> , Wendy Miller <WENDYM@cityofws.org>,
wood.amanetta@epa.gov
CC: taylor.dellinger@wpcog.org, daschmidt@dot.state.nc.us,
"Behshad Norowzi (E-mail)" <bnorowzi@dot.state.nc.us> ,
Mike Bruff <mbruff@dot.state.nc.us> ,
Travis Marshall <tmarshall@dot.state.nc.us> ,
"Alena R. Cook, PE" <arcook@dot.state.nc.us>

```
Hi Patrick,
See the attached file for Triad area (Guilford and Davidson
Counties) speeds. Please provide us with PM2.5 emission factors
for 2002, 2010, 2020 and 2030 by 10-18-05. Please let me know if
there is any questions.
Thanks,
Behshad
```

TriadPM2.5-Speed.xls	**Name:** TriadPM2.5-Speed.xls **Type:** Microsoft Excel Worksheet (application/vnd.ms-excel) **Encoding:** base64

Subject: FW: MPO reply to EPA Comments: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists
Date: Tue, 29 Nov 2005 08:28:27 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Monday, October 24, 2005 4:07 PM
To: Amanetta Wood (E-mail)
Cc: Frate, Doug <FTA>; Heather Hildebrandt (E-mail); Craig Hughes (E-mail); Scott Rhine (E-mail); Benjamin, Lynorae (E-mail); Lydia McIntyre (E-mail); Craig Hughes (E-mail); Wilner, Marcus
Subject: MPO reply to EPA Comments: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Amanetta,

The attached file below contains the MPO reply to your comments. Please review the responses to your comments and let me know if your comments have been addressed (or not) by 10/28/05.

I have also attached the High Point MPO revised exempt project list. As you will see in the MPO reply to your comments this revised exempt list clears up a large number of your comments.

If you have any questions, please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Dancausse, Edward
Sent: Monday, October 17, 2005 9:27 AM
To: Amanetta Wood (E-mail)
Cc: Frate, Doug <FTA>; Heather Hildebrandt (E-mail); Craig Hughes (E-mail); Scott Rhine (E-mail)
Subject: FW: Action Requested by 10/14/05: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

The project list that the High Point MPO provided for our review of regional significant and exempt projects was not the correct list. Provided below is a correct list. The comments that you provided will be addressed by the MPO (a reply will be provided for each comment). In the meantime you will find that most of your comments are addressed (based on the correct project list below).

If you have any questions, please let me know

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: CRAIG HUGHES [mailto:craig.hughes@highpointnc.gov]
Sent: Friday, October 14, 2005 4:43 PM
To: Dancausse, Edward
Subject: RE: Action Requested by 10/14/05: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Eddie,

I apologize for sending the wrong list to Scott. The only project on the list that Amanetta sent that is exempt would be:

2020 Trinity Mendenhall Road Ext/Re-alignment. This will re-align both roadways so that the existing offset is eliminated. This is a 2 lane facility.

I am attaching the correct list.

Again, I apologize for any confusion. Thanks.

Craig Hughes
Transportation Planner
City of High Point
(336) 883-3310

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Friday, October 14, 2005 2:54 PM
To: Lydia McIntyre (E-mail); CRAIG HUGHES; Gregory Errett (E-mail); Wendy Miller (E-mail); Mike Nunn (E-mail)
Cc: Scott Rhine (E-mail); Behshad Norowzi (E-mail); Monica Kerr (E-mail); Upchurch, James (E-mail); Heather Hildebrandt (E-mail); Frate, Doug <FTA>; Michelle Renee Farmer (E-mail); Michael Abuya (E-mail); Marley, Bill; Wilner, Marcus; Amanetta Wood (E-mail); Derry Schmidt (E-mail); Hanna Cockburn (E-mail)
Subject: Action Requested by 10/14/05: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Provided below are EPA's comments on your project list review. Please review the comments and provide responses to each comment. Please provide responses to me by 10/21/05 (if you need more time please let me know). Hopefully we can work through the comments (to the satisfaction of the commenting agency) via email. If necessary I will set up a conference call to work through any unresolved issues.

I will provide my comments hopefully later today but no later than 10/17/05. We are still waiting on NCDENR's and FTA comments. I will contact them on 10/17 to check on their progress.

If you have any questions, please let me know

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Wood.Amanetta@epamail.epa.gov
[mailto:Wood.Amanetta@epamail.epa.gov]
Sent: Wednesday, October 12, 2005 1:25 PM
To: Dancausse, Edward
Cc: Wood.Amanetta@epamail.epa.gov; Benjamin.Lynorae@epamail.epa.gov
Subject: Re: Action Requested by 10/14/05: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Hello All,

I am sending this email on behalf of EPA Region 4 , and in response to your request for our review and comment on Triad PM2.5 non-attainment area regionally significant and exempt project lists. We have reviewed the document and have the following comments.

* For the Bridge replacement projects, please consider including current and existing laneage as opposed to "N/A" since there may be some instances where a bridge replacement may not necessarily be considered exempt (i.e., when the number of lanes change).

* For completeness of information for review, please provide more description in the exempt projects list with regard to the number of existing and future lanes.

* During our review, we were unable to determine the status of the following projects on the exempt list because existing laneage was not available:

- High Point Urban Area: U-3336, U4017, U3615B, U-3432, U-4420, U-3433.
- Additional High Point Urban Area projects with the following descriptions:

HORIZON YEAR	TIP #	CITY	LOC./DESC.
2020	n/a	Trinity	Finch Farm Road, from Interstate 85 to Trinity city limits, Widening to a multi-lane facility.
2020	n/a	Thomasville	Julian Avenue extension, from north of East Guilford

```
Street |
|                 |        |                    | to Unity Street,
Extend a four|
|                 |        |                    | lane facility.
|
|-----------------+--------+--------------------+-----------------------
--------|
|       2020      |   n/a  |Thomasville         | MLK Dr./ Jacobs St.
extension/|
|                 |        |                    | Business 85
interchange,      |
|                 |        |                    | Construction of a new
|
|                 |        |                    | interchange.
|
|-----------------+--------+--------------------+-----------------------
--------|
|       2020      |   n/a  |Trinity             | Mendenhall
Rd./Mendenhall Rd. |
|                 |        |                    | Ext. realignment,
Realign both|
|                 |        |                    | roadways so that the
existing |
|                 |        |                    | offset is eliminated
|
|-----------------+--------+--------------------+-----------------------
--------|
|       2020      |   n/a  |Trinity/ Thomasville| E. Sunrise Avenue
extension,  |
|                 |        |                    | from County Line Road
to Unity|
|                 |        |                    | Street.
|
|-----------------+--------+--------------------+-----------------------
--------|
|       2030      |   n/a  |Thomasville         | Holly Hill Road
Connector,    |
|                 |        |                    | from West Holly Hill
Rd to    |
|                 |        |                    | Baptist Childrens Home
Road,  |
|                 |        |                    | New 2-lane facility.
|
|-----------------+--------+--------------------+-----------------------
--------|
|       2030      |   n/a  |Archdale            | NC 62, from US 311 to
Trinity |
|                 |        |                    | Rd., Widening to three
lanes. |
|-----------------+--------+--------------------+-----------------------
--------|
|       2030      |   n/a  |Thomasville         | NC 109, from
Interstate 85 to |
|                 |        |                    | NC 47, Widen to
multi-lane    |
|                 |        |                    | facility.
|
|-----------------+--------+--------------------+-----------------------
--------|
|       2030      |   n/a  |Thomasville         | Southern Loop, from
existing  |
|                 |        |                    | Johnsontown Rd. to
Finch Farm |
|                 |        |                    | Rd., New 2-lane
facility.     |
|-----------------+--------+--------------------+-----------------------
--------|
```

2030	n/a	Trinity	Surrett Drive, from Eden Terrace to Interstate 85, Widening to multi-lanes.
2030	n/a	Trinity	Uwharrie Road extension, from Uwharrie Rd. to Surrett Dr., Multi-lane extension on new location.
2030	n/a	Davidson County	Wallburg/ High Point Road, from West Lexington Avenue to NC 109, Widening to a multi-lane facility. *

Many of the above projects do not appear to be exempt.
Further explanation of the projects is necessary.

* Greensboro MPO Area: The East Market Street projects decreases in laneage from 6 lanes to four lanes. This is not an exempt project.

Thank you for the opportunity to review this draft document. It may be necessary for us to have a conference call to go through these projects to discuss exempt and non-exempt status. Please contact me if you have questions or can provide clarification of the comments such that a conference call is not necessary. We look forward to reviewing future drafts.

Amanetta Wood

Amanetta Wood, Environmental Scientist
U.S. Environmental Protection Agency, Region 4
Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Email: wood.amanetta@epa.gov
Phone: (404) 562-9025
Fax: (404) 562-9019

"Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>

10/03/2005 03:52 PM

To
"Heather Hildebrandt (E-mail)" <heather.hildebrandt@ncmail.net>, Amanetta Wood/R4/USEPA/US@EPA, "Frate, Doug <FTA>"

cc
"Cary Gentry (E-mail)" <gentrycd@forsyth.cc>, "Craig Hughes (E-mail)" <craig.hughes@ci.high-point.nc.us>, *"Gregory Errett (E-mail)"* <GREGE@cityofws.org>, "Hanna Cockburn (E-mail)" <hcockburn@ptcog.org>, "Lydia McIntyre (E-mail)" <lydia.mcintyre@ci.greensboro.nc.us>, "Mike Nunn (E-mail)" <mnunn@mblsolution.com>, "Patrick Reagan (E-mail)" <reaganpa@co.forsyth.nc.us>, "Peggy Holland (E-mail)" <peggy.holland@ci.greensboro.nc.us>, "Scott Rhine (E-mail)" <scottr@partnc.org>, "Tyler Meyers (E-mail)" <tyler.meyer@ci.greensboro.nc.us>, "Wendy Miller (E-mail)" <wendym@cityofws.org>, "Alena Cook (E-mail)" <arcook@dot.state.nc.us>, "Behshad Norowzi (E-mail)" <bnorowzi@dot.state.nc.us>, "Dan Thomas (E-mail)" <danthomas@dot.state.nc.us>, "Derry Schmidt (E-mail)" <daschmidt@dot.state.nc.us>, "Jamal Alavi (E-mail)" <jalavi@dot.state.nc.us>, "Marley, Bill" <Bill.Marley@fhwa.dot.gov>, "Michael Abuya (E-mail)" <mrabuya@dot.state.nc.us>, "Michelle Renee Farmer (E-mail)" <mrfarmer@dot.state.nc.us>, "Monica Kerr (E-mail)" <mkerr@dot.state.nc.us>, "Upchurch, James (E-mail)" <jhupchurch@dot.state.nc.us>, "Wayne Davis (E-mail)" <wcdavis@dot.state.nc.us>

Subject
Action Requested by 10/14/05: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Heather/Amanetta/Doug,

The review will consist of the following:

1. Review all the lists to make sure you agree with the projects that have been labeled "regionally significant" and "exempt"

2. Just as a reminder we will not be comparing the 06-12 TIP to the 2030 LRTP since we agreed via email that this was not necessary because we just completed this exercise for the 06-12 TIP conformity determination that was due on 10/1/05.

Responses will be provided to any questions/issues that are generated from your review. If the responses do not adequately address your questions/issues a meeting will be set up to discuss concerns and to hopefully address any outstanding issues.

Please provide your review comments to me (via email) by COB 10/14/05. If you complete your review prior to 10/14/05, please go ahead and send your review comments so that we may begin to work on the corrections/responses.

If you have any questions or need additional information, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/
-----Original Message-----
From: Scott Rhine [mailto:scottr@partnc.org]
Sent: Friday, September 30, 2005 10:03 AM
To: Dancausse, Edward
Subject: Items 16-18 material for Triad PM2.5

Please see attached, and advise me if you see any need to make edits.
Thanks

(Embedded image moved to file: pic11173.gif)
Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

(See attached file: Items 16 17 18 Triad Pre-Consensus Plan 2005.xls)

LRTP 04 Project List.pdf	**Name:** LRTP 04 Project List.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

MPO Reply to EPA Comments.doc	**Name:** MPO Reply to EPA Comments.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Subject: **Revised consensus plans and updated schedules for the Catawba and Triad PM2.5 Conformity Processes**
Date: Wed, 19 Oct 2005 15:42:43 -0400
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>,
"Amanetta Wood \(E-mail\)" <Wood.Amanetta@epamail.epa.gov>,
"John Tippett \(E-mail\)" <john.tippett@wpcog.org>,
"Williams, Beverly \(E-mail\)" <bevwilliams@dot.state.nc.us>,
"Linh Nguyen \(E-mail\)" <lnguyen@dot.state.nc.us>,
"Gregory Errett \(E-mail\)" <GREGE@cityofws.org>,
"Wendy Miller \(E-mail\)" <wendym@cityofws.org>,
"Mike Nunn \(E-mail\)" <mnunn@mblsolution.com>,
"Frate, Doug <FTA>" <Doug.Frate@fta.dot.gov>,
"Heather Hildebrandt \(E-mail\)" <heather.hildebrandt@ncmail.net>,
"Craig Hughes \(E-mail\)" <craig.hughes@ci.high-point.nc.us>,
"Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>,
"Mike Nunn \(E-mail\)" <mnunn@mblsolution.com>,
"Wayne Davis \(E-mail\)" <wcdavis@dot.state.nc.us>,
"Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Lydia McIntyre \(E-mail\)" <lydia.mcintyre@ci.greensboro.nc.us>,
"Nicole Hay \(E-mail\)" <nhay@nwpcog.org>,
"Monica Kerr \(E-mail\)" <mkerr@dot.state.nc.us>,
"Marc Allred \(E-mail\)" <mallred@nwpcog.org>,
"Michael Abuya \(E-mail\)" <mrabuya@dot.state.nc.us>
CC: "Benjamin, Lynorae \(E-mail\)" <Benjamin.Lynorae@epamail.epa.gov>,
"Behshad Norowzi" <bnorowzi@dot.state.nc.us>,
"Mike Abraczinskas" <Michael.Abraczinskas@ncmail.net>,
"Phyllis D Jones" <Phyllis.D.Jones@ncmail.net>, "Pat Bello" <Pat.Bello@ncmail.net>,
"Van Sullivan" <sullivvk@forsyth.cc>, "Cary Gentry" <gentrycd@co.forsyth.nc.us>,
"Barren, Loretta" <Loretta.Barren@fhwa.dot.gov>, "Pat Reagan" <reaganpa@forsyth.cc>,
"Derry Schmidt \(E-mail\)" <daschmidt@dot.state.nc.us>,
"Cynthia Muldrow \(E-mail\)" <cdmuldrow@dot.state.nc.us>,
"Scott Rhine \(E-mail\)" <scottr@partnc.org>,
"Vicki Chandler" <Vicki.Chandler@ncmail.net>,
"Laura Boothe \(E-mail\)" <laura.boothe@ncmail.net>,
"Mike Abraczinskas \(E-mail\)" <michael.abraczinskas@ncmail.net>,
"Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>,
"Tyler Meyers \(E-mail\)" <tyler.meyer@ci.greensboro.nc.us>,
"Marley, Bill" <Bill.Marley@fhwa.dot.gov>,
"Alena Cook \(E-mail\)" <arcook@dot.state.nc.us>

The attached files below contain the latest update of the Transportation Conformity Preanalysis Consensus Plan (TCPCP) for the Catawba and Triad PM2.5 NA areas and updated conformity process schedules for your information. The revision to the TCPCP is under item #14 "Mobile Model" and is in red font. These revisions resulted from a meeting that was held on 9/19/05 with NCDOT, NCDENR-DAQ, FHWA and Forsyth County EAD. The revisions resulting from the meeting were shared with EPA Region 4 and they concur with the revisions.

If you have any questions or corrections, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Catawba-PM2.5-09-26-05.pdf	**Name:** Catawba-PM2.5-09-26-05.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64 **Description:** Catawba-PM2.5-09-26-05.pdf

Catawba PM 2.5 PCPlan_10.19.05.doc	**Name:** Catawba PM 2.5 PCPlan_10.19.05.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64 **Description:** Catawba PM 2.5 PCPlan_10.19.05.doc

Triad-PM2.5-09-28-05.pdf	**Name:** Triad-PM2.5-09-28-05.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64 **Description:** Triad-PM2.5-09-28-05.pdf

Triad Region PM2 5 TCPCP_10.19.05.doc	**Name:** Triad Region PM2 5 TCPCP_10.19.05.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64 **Description:** Triad Region PM2 5 TCPCP_10.19.05.doc

Subject: **Triad PM2.5 Emission Factors**
Date: Wed, 19 Oct 2005 08:46:37 -0400
From: "Reagan, Patrick A" <reaganpa@forsyth.cc>
To: "Behshad Norowzi" <bnorowzi@dot.state.nc.us> ,
<Benjamin.Lynorae@epamail.epa.gov> ,
"Bill Marley \(E-mail\)" <bill.marley@fhwa.dot.gov> , <burlmpo@ci.burlington.nc.us> ,
"Gentry, Cary D" <gentrycd@forsyth.cc> ,
"Craig Hughes" <craig.hughes@ci.high-point.nc.us> ,
<Edward.Dancausse@fhwa.dot.gov> ,
"Holland, Peggy" <Peggy.Holland@ci.greensboro.nc.us> ,
"Greg Errett" <grege@cityofws.org> , "Guy Cornman" <gcornman@co.davidson.nc.us> ,
"Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org> ,
"Heather Hildebrandt" <heather.hildebrandt@ncmail.net> ,
"James Upchurch \(E-mail\)" <jhupchurch@dot.state.nc.us> , <LAKESHAD@cityofws.org> ,
"Laura Boothe" <Laura.Boothe@ncmail.net> ,
"Loretta Barren" <loretta.barren@fhwa.dot.gov> ,
"Lydia McIntyre" <lydia.mcintyre@ci.greensboro.nc.us> ,
"michael abraczinskas" <michael.abraczinskas@ncmail.net> ,
"Michael Abuya" <mrabuya@dot.state.nc.us> ,
"Michelle Farmer" <mrfarmer@dot.state.nc.us> , <mkerr@dot.state.nc.us> ,
"Phil Wylie" <Phil.Wylie@ci.high-point.nc.us> ,
"Phyllis Jones" <phyllis.jones@ncmail.net> , <ricka@lexingtonnc.net>,
<scottr@partnc.org> , "Tyler Meyer" <tyler.meyer@ci.greensboro.nc.us> ,
"Wayne Davis" <wcdavis@dot.state.nc.us> , "Wendy Miller" <WENDYM@cityofws.org>,
<wood.amanetta@epa.gov>
CC: <taylor.dellinger@wpcog.org>, <daschmidt@dot.state.nc.us> ,
"Mike Bruff" <mbruff@dot.state.nc.us> , "Travis Marshall" <tmarshall@dot.state.nc.us> ,
"Alena R. Cook, PE" <arcook@dot.state.nc.us>

Behshad, it seems the first attempt has been rejected by several recipients. Here is attempt number 2. Thanks...PAR

Patrick A. Reagan
Monitoring and Mobile Sources Division Manager
Forsyth County Environmental Affairs Department
537 N. Spruce Street
Winston-Salem, NC 27101
(336) 703-2440
Fax (336) 727-2777
reaganpa@forsyth.cc
www.forsyth.cc/environmentalaffairs

Behshad, attached are the input and output files for the Guilford and Davidson County MOBILE 6.2 model runs. Also attached is a summary spreadsheet for both counties which details the quarterly emission factors for each roadway type for 2002, 2010, 2020, and 2030. Please let me know if you have any questions about the files. Thanks...PAR

-----Original Message-----

From: Behshad Norowzi [mailto:bnorowzi@dot.state.nc.us]

Sent: Wednesday, October 05, 2005 5:38 PM

To: Benjamin.Lynorae@epamail.epa.gov; Bill Marley (E-mail); burlmpo@ci.burlington.nc.us; Gentry, Cary D; 'Craig Hughes'; Edward.Dancausse@fhwa.dot.gov; Greg Errett; Guy Cornman; Hanna Cockburn (E-mail); Heather Hildebrandt; 'Holland, Peggy'; James Upchurch (E-mail); LAKESHAD@cityofws.org; Laura Boothe; 'Loretta Barren'; 'Lydia McIntyre'; michael abraczinskas; Michael Abuya; 'Michelle Farmer'; mkerr@dot.state.nc.us; Reagan, Patrick A; Phil Wylie; 'Phyllis Jones'; ricka@lexingtonnc.net; scottr@partnc.org; Tyler Meyer; 'Wayne Davis'; Wendy Miller; wood.amanetta@epa.gov

Cc: taylor.dellinger@wpcog.org; daschmidt@dot.state.nc.us; Behshad Norowzi (E-mail); Mike Bruff; Travis Marshall; Alena R. Cook, PE

Subject: Triad PM2.5 speeds

Hi Patrick,

See the attached file for Triad area (Guilford and Davidson

Counties) speeds. Please provide us with PM2.5 emission factors

for 2002, 2010, 2020 and 2030 by 10-18-05. Please let me know if

there is any questions.

Thanks,

Behshad

2005 Inputs and Outputs.zip	**Name:** 2005 Inputs and Outputs.zip **Type:** Zip Compressed Data (application/x-zip-compressed) **Encoding:** base64 **Description:** 2005 Inputs and Outputs.zip

Subject: **FW: MPO reply to EPA Comments: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists**
Date: Tue, 29 Nov 2005 08:28:12 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Friday, October 28, 2005 9:58 AM
To: Lydia McIntyre (E-mail)
Cc: Amanetta Wood (E-mail); Scott Rhine (E-mail)
Subject: FW: MPO reply to EPA Comments: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Lydia,

EPA still has a couple of questions dealing with the following project:

Greensboro MPO Area: The East Market Street projects decreases in laneage from 6 lanes to four lanes. This is not an exempt project.

MPO Reply:
Response: This project is a "streetscape" project. The six lanes in this project consisted of 4 lanes and 2 turn lanes. This project eliminated the 2 turn lanes and replaced them with a median. We believe this project meets the definition of an exempt project per 40 CFR 93.126 and 93.127.

EPA's follow up questions are:
1. How extensive is this project?
2. What is the number of intersections impacted by this project?
3. What is the mileage associated with this project?

Please provide responses to me as soon as you can. If you have any questions or if you would like to discuss further, please let mw know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Dancausse, Edward
Sent: Monday, October 24, 2005 4:07 PM
To: 'Amanetta Wood (E-mail)'
Cc: Frate, Doug <FTA>; 'Heather Hildebrandt (E-mail)'; 'Craig Hughes (E-mail)'; 'Scott Rhine (E-mail)'; Benjamin, Lynorae (E-mail); Lydia McIntyre (E-mail); Craig Hughes (E-mail); Wilner, Marcus
Subject: MPO reply to EPA Comments: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Amanetta,

The attached file below contains the MPO reply to your comments. Please review the responses to your comments and let me know if your comments have been addressed (or not) by 10/28/05.

I have also attached the High Point MPO revised exempt project list. As you will see in the MPO reply to your comments this revised exempt list clears up a large number of your comments.

If you have any questions, please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Dancausse, Edward
Sent: Monday, October 17, 2005 9:27 AM
To: Amanetta Wood (E-mail)
Cc: Frate, Doug <FTA>; Heather Hildebrandt (E-mail); Craig Hughes (E-mail); Scott Rhine (E-mail)
Subject: FW: Action Requested by 10/14/05: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

The project list that the High Point MPO provided for our review of regional significant and exempt projects was not the correct list. Provided below is a correct list. The comments that you provided will be addressed by the MPO (a reply will be provided for each comment). In the meantime you will find that most of your comments are addressed (based on the correct project list below).

If you have any questions, please let me know

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: CRAIG HUGHES [mailto:craig.hughes@highpointnc.gov]
Sent: Friday, October 14, 2005 4:43 PM
To: Dancausse, Edward
Subject: RE: Action Requested by 10/14/05: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Eddie,

I apologize for sending the wrong list to Scott. The only project on the list that Amanetta sent that is exempt would be:

2020 Trinity Mendenhall Road Ext/Re-alignment. This will re-align both roadways so that the existing offset is eliminated. This is a 2 lane facility.

I am attaching the correct list.

Again, I apologize for any confusion. Thanks.

Craig Hughes
Transportation Planner
City of High Point
(336) 883-3310

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Friday, October 14, 2005 2:54 PM
To: Lydia McIntyre (E-mail); CRAIG HUGHES; Gregory Errett (E-mail); Wendy Miller (E-mail); Mike Nunn (E-mail)
Cc: Scott Rhine (E-mail); Behshad Norowzi (E-mail); Monica Kerr (E-mail); Upchurch, James (E-mail); Heather Hildebrandt (E-mail); Frate, Doug <FTA>; Michelle Renee Farmer (E-mail); Michael Abuya (E-mail); Marley, Bill; Wilner, Marcus; Amanetta Wood (E-mail); Derry Schmidt (E-mail); Hanna Cockburn (E-mail)
Subject: Action Requested by 10/14/05: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Provided below are EPA's comments on your project list review. Please review the comments and provide responses to each comment. Please provide responses to me by 10/21/05 (if you need more time please let me know). Hopefully we can work through the comments (to the satisfaction of the commenting agency) via email. If necessary I will set up a conference call to work through any unresolved issues.

I will provide my comments hopefully later today but no later than 10/17/05. We are still waiting on NCDENR's and FTA comments. I will contact them on 10/17 to check on their progress.

If you have any questions, please let me know

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Wood.Amanetta@epamail.epa.gov
[mailto:Wood.Amanetta@epamail.epa.gov]
Sent: Wednesday, October 12, 2005 1:25 PM
To: Dancausse, Edward
Cc: Wood.Amanetta@epamail.epa.gov; Benjamin.Lynorae@epamail.epa.gov
Subject: Re: Action Requested by 10/14/05: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Hello All,

I am sending this email on behalf of EPA Region 4 , and in response to your request for our review and comment on Triad PM2.5 non-attainment area regionally significant and exempt project lists. We have reviewed the document and have the following comments.

* For the Bridge replacement projects, please consider including current and existing laneage as opposed to "N/A" since there may be some instances where a bridge replacement may not necessarily be considered exempt (i.e., when the number of lanes change).

* For completeness of information for review, please provide more description in the exempt projects list with regard to the number of existing and future lanes.

* During our review, we were unable to determine the status of the following projects on the exempt list because existing laneage was not available:

- High Point Urban Area: U-3336, U4017, U3615B, U-3432, U-4420, U-3433.
- Additional High Point Urban Area projects with the following descriptions:

HORIZON YEAR	TIP #	CITY	LOC./DESC.
2020	n/a	Trinity	Finch Farm Road, from Interstate 85 to Trinity city limits, Widening to a multi-lane facility.
2020	n/a	Thomasville	Julian Avenue extension, from north of East Guilford Street to Unity Street, Extend a four lane facility.
2020	n/a	Thomasville	MLK Dr./ Jacobs St. extension/ Business 85 interchange, Construction of a new interchange.
2020	n/a	Trinity	Mendenhall Rd./Mendenhall Rd. Ext. realignment, Realign both roadways so that the

```
existing |
|                 |        |                    | offset is eliminated
|
|-----------------+--------+--------------------+----------------------
--------|
|       2020      |   n/a  |Trinity/ Thomasville| E. Sunrise Avenue
extension,  |
|                 |        |                    | from County Line Road
to Unity|
|                 |        |                    | Street.
|
|-----------------+--------+--------------------+----------------------
--------|
|       2030      |   n/a  |Thomasville         | Holly Hill Road
Connector,    |
|                 |        |                    | from West Holly Hill
Rd to    |
|                 |        |                    | Baptist Childrens Home
Road,  |
|                 |        |                    | New 2-lane facility.
|
|-----------------+--------+--------------------+----------------------
--------|
|       2030      |   n/a  |Archdale            | NC 62, from US 311 to
Trinity |
|                 |        |                    | Rd., Widening to three
lanes. |
|-----------------+--------+--------------------+----------------------
--------|
|       2030      |   n/a  |Thomasville         | NC 109, from
Interstate 85 to |
|                 |        |                    | NC 47, Widen to
multi-lane    |
|                 |        |                    | facility.
|
|-----------------+--------+--------------------+----------------------
--------|
|       2030      |   n/a  |Thomasville         | Southern Loop, from
existing  |
|                 |        |                    | Johnsontown Rd. to
Finch Farm |
|                 |        |                    | Rd., New 2-lane
facility.     |
|-----------------+--------+--------------------+----------------------
--------|
|       2030      |   n/a  |Trinity             | Surrett Drive, from
Eden      |
|                 |        |                    | Terrace to Interstate
85,     |
|                 |        |                    | Widening to
multi-lanes.      |
|-----------------+--------+--------------------+----------------------
--------|
|       2030      |   n/a  |Trinity             | Uwharrie Road
extension, from |
|                 |        |                    | Uwharrie Rd. to
Surrett Dr.,  |
|                 |        |                    | Multi-lane extension
on new   |
|                 |        |                    | location.
|
|-----------------+--------+--------------------+----------------------
--------|
|       2030      |   n/a  |Davidson County     | Wallburg/ High Point
Road,    |
|                 |        |                    | from West Lexington
Avenue to |
```

```
|                 |        |                    | NC 109, Widening to a
|
|                 |        |                    | multi-lane facility.
|
|                 |        |                    |*
|
|-----------------+--------+--------------------+----------------------
--------|
```

Many of the above projects do not appear to be exempt.
Further explanation of the projects is necessary.

* Greensboro MPO Area: The East Market Street projects decreases in laneage from 6 lanes to four lanes. This is not an exempt project.

Thank you for the opportunity to review this draft document. It may be necessary for us to have a conference call to go through these projects to discuss exempt and non-exempt status. Please contact me if you have questions or can provide clarification of the comments such that a conference call is not necessary. We look forward to reviewing future drafts.

Amanetta Wood

Amanetta Wood, Environmental Scientist
U.S. Environmental Protection Agency, Region 4
Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Email: wood.amanetta@epa.gov
Phone: (404) 562-9025
Fax: (404) 562-9019

"Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>

10/03/2005 03:52 PM

To
"Heather Hildebrandt (E-mail)" <heather.hildebrandt@ncmail.net>, Amanetta Wood/R4/USEPA/US@EPA, "Frate, Doug <FTA>"

cc
"Cary Gentry (E-mail)" <gentrycd@forsyth.cc>, "Craig Hughes (E-mail)" <craig.hughes@ci.high-point.nc.us>, *"Gregory Errett (E-mail)"* <GREGE@cityofws.org>, "Hanna Cockburn (E-mail)" <hcockburn@ptcog.org>, "Lydia McIntyre (E-mail)" <lydia.mcintyre@ci.greensboro.nc.us>, "Mike Nunn (E-mail)" <mnunn@mblsolution.com>, "Patrick Reagan (E-mail)" <reaganpa@co.forsyth.nc.us>,

"Peggy Holland (E-mail)" <peggy.holland@ci.greensboro.nc.us>, "Scott Rhine (E-mail)" <scottr@partnc.org>, "Tyler Meyers (E-mail)" <tyler.meyer@ci.greensboro.nc.us>, "Wendy Miller (E-mail)" <wendym@cityofws.org>, "Alena Cook (E-mail)" <arcook@dot.state.nc.us>, "Behshad Norowzi (E-mail)" <bnorowzi@dot.state.nc.us>, "Dan Thomas (E-mail)" <danthomas@dot.state.nc.us>, "Derry Schmidt (E-mail)" <daschmidt@dot.state.nc.us>, "Jamal Alavi (E-mail)" <jalavi@dot.state.nc.us>, "Marley, Bill" <Bill.Marley@fhwa.dot.gov>, "Michael Abuya (E-mail)" <mrabuya@dot.state.nc.us>, "Michelle Renee Farmer (E-mail)" <mrfarmer@dot.state.nc.us>, "Monica Kerr (E-mail)" <mkerr@dot.state.nc.us>, "Upchurch, James (E-mail)" <jhupchurch@dot.state.nc.us>, "Wayne Davis (E-mail)" <wcdavis@dot.state.nc.us>

Subject

Action Requested by 10/14/05: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Heather/Amanetta/Doug,

The review will consist of the following:

1. Review all the lists to make sure you agree with the projects that have been labeled "regionally significant" and "exempt"

2. Just as a reminder we will not be comparing the 06-12 TIP to the 2030 LRTP since we agreed via email that this was not necessary because we just completed this exercise for the 06-12 TIP conformity determination that was due on 10/1/05.

Responses will be provided to any questions/issues that are generated from your review. If the responses do not adequately address your questions/issues a meeting will be set up to discuss concerns and to hopefully address any outstanding issues.

Please provide your review comments to me (via email) by COB 10/14/05. If you complete your review prior to 10/14/05, please go ahead and send your review comments so that we may begin to work on the corrections/responses.

If you have any questions or need additional information, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/
-----Original Message-----
From: Scott Rhine [mailto:scottr@partnc.org]
Sent: Friday, September 30, 2005 10:03 AM
To: Dancausse, Edward
Subject: Items 16-18 material for Triad PM2.5

Please see attached, and advise me if you see any need to make edits.
Thanks

(Embedded image moved to file: pic11173.gif)
Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

(See attached file: Items 16 17 18 Triad Pre-Consensus Plan 2005.xls)

LRTP 04 Project List.pdf	**Name:** LRTP 04 Project List.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

MPO Reply to EPA Comments.doc	**Name:** MPO Reply to EPA Comments.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Subject: **Updated Triad PM2.5 Conformity SCH**
Date: Mon, 07 Nov 2005 11:35:02 -0500
From: Behshad Norowzi <bnorowzi@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: Eddie Dancausse <Edward.Dancausse@fhwa.dot.gov> ,
Scott Rhine <scottr@partnc.org> ,
"Heather.Hildebrandt" <Heather.Hildebrandt@ncmail.net> ,
James Upchurch <jhupchurch@dot.state.nc.us> ,
"Monica D. Kerr" <mkerr@dot.state.nc.us> ,
"Dr. Wayne C. Davis" <wcdavis@dot.state.nc.us> ,
"Alena R. Cook, PE" <arcook@dot.state.nc.us> ,
"Derry A. Schmidt" <daschmidt@dot.state.nc.us> ,
Cynthia Muldrow <cdmuldrow@dot.state.nc.us> ,
Michael Abuya <MRAbuya@dot.state.nc.us>
CC: Mike Bruff <mbruff@dot.state.nc.us> ,
Travis Marshall <tmarshall@dot.state.nc.us> ,
Wendy Miller <WENDYM@cityofws.org> ,
Greg Errett <"GREGE.LSP-PO.City of Winston-Salem"@cityofws.org>

```
Greetings,
Please see the attached draft updated SCH for the Triad PM2.5
Conformity and let me know if there is any concern or questions.
Thanks,
Behshad
```

Triad-PM2.5-11-07-05.pdf	**Name:** Triad-PM2.5-11-07-05.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

Subject: **Guilford County spreadsheet**
Date: Thu, 10 Nov 2005 14:00:30 -0500
From: Behshad Norowzi <bnorowzi@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: "Monica D. Kerr" <mkerr@dot.state.nc.us> ,
James Upchurch <jhupchurch@dot.state.nc.us>

Guilfordpm2.5-10-25-05.xls	**Name:** Guilfordpm2.5-10-25-05.xls **Type:** Microsoft Excel Worksheet (application/vnd.ms-excel) **Encoding:** base64

Subject: **Triad PM 2.5 CDR**
Date: Tue, 29 Nov 2005 10:15:00 -0500
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>

James,

Thanks for the update. Look forward to getting the conformity report tomorrow.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: **FW: High Point's Corrected Exempt Project List**
Date: Tue, 29 Nov 2005 08:27:17 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Wednesday, November 02, 2005 1:13 PM
To: Scott Rhine (E-mail)
Cc: Craig Hughes (E-mail)
Subject: High Point's Corrected Exempt Project List

<<LRTP 04 Project List.pdf>>

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

LRTP 04 Project List.pdf	**Name:** LRTP 04 Project List.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

Subject: **FW: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists**
Date: Tue, 29 Nov 2005 08:26:41 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Thursday, November 03, 2005 12:43 PM
To: Wood.Amanetta@epamail.epa.gov
Cc: Benjamin.Lynorae@epamail.epa.gov; Lydia McIntyre (E-mail); Scott Rhine (E-mail)
Subject: RE: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Amanetta,

To follow up on your phone message from yesterday.

Let me further clarify....
Your comment is that the streetscape project is not exempt and is regionally significant. The MPO agrees with your comment and the project list will be corrected to reflect that the streetscape project is regionally significant.

Have your other comments related to the Triad PM 2.5 "Regionally Significant" and Exempt Project List been addressed by the MPO?

If you have any additional questions, please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Dancausse, Edward
Sent: Wednesday, November 02, 2005 4:10 PM
To: 'Wood.Amanetta@epamail.epa.gov'
Cc: Behshad Norowzi (E-mail); Derry Schmidt (E-mail); Heather Hildebrandt (E-mail); Lydia McIntyre (E-mail); Benjamin.Lynorae@epamail.epa.gov; Scott Rhine (E-mail)
Subject: RE: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Amanetta,

The change will be made to the streetscape project. Exempt to Regional Significant.

Have your other comments related to the Triad PM 2.5 "Regionally Significant" and Exempt Project List been addressed by the MPO?

Please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Wood.Amanetta@epamail.epa.gov
[mailto:Wood.Amanetta@epamail.epa.gov]
Sent: Wednesday, November 02, 2005 9:15 AM
To: Dancausse, Edward
Cc: Behshad Norowzi (E-mail); Derry Schmidt (E-mail); Heather Hildebrandt (E-mail); Lydia McIntyre (E-mail); Benjamin.Lynorae@epamail.epa.gov; Scott Rhine (E-mail)
Subject: RE: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Hello All,

We will not be able to consider the East Market Street project as a non-regionally significant project because in the project description provided by the MPO it is a principal arterial. Per 93.101 a Regionally Significant project means a transportation project (other than an exempt project) that is on a facility which serves regional transportation needs (such as access to and from the area outside of the region, major activity centers in the region, major planned developments such as new retail malls, sports complexes, etc., or transportation terminals as well as most terminals themselves) and would normally be included in the modeling of a metropolitan area's transportation network, including at a minimum all principal arterial highways and all fixed guideway transit facilities that offer an alternative to regional highway travel.

Greensboro Urban Area 2030 Multi-Modal Long Range Transportation Plan
List of Exempt TIP Projects in the Guilford County Area

FACILITY	TIP #	DESCRIPTION	MILES	# LANES	HORIZON YR # LANES	FEDERAL FUNCTIONAL CLASS	REGIONAL SIGNIFICANT
2005-2014 Horizon Year - Greensboro MPO Area							
East Market		Streetscape		6 lane	4 lane	Principal	No

```
| Street      |    | and Traffic |       | divide| divided |   Arterial  |
|
|             |    | Management  |       |   d   |         |             |
|
|-------------+----+-------------+-------+-------+---------+-------------+--
----------|
```

Amanetta Wood, Environmental Scientist
U.S. Environmental Protection Agency, Region 4
Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Email: wood.amanetta@epa.gov
Phone: (404) 562-9025
Fax: (404) 562-9019

"Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
11/02/2005 08:39 AM

To: Amanetta Wood/R4/USEPA/US@EPA
cc: Lynorae Benjamin/R4/USEPA/US@EPA, "Scott Rhine (E-mail)" <scottr@partnc.org>, "Lydia McIntyre (E-mail)" <lydia.mcintyre@ci.greensboro.nc.us>, "Behshad Norowzi (E-mail)" <bnorowzi@dot.state.nc.us>, "Derry Schmidt (E-mail)" <daschmidt@dot.state.nc.us>, "Heather Hildebrandt (E-mail)" <heather.hildebrandt@ncmail.net>, "Frate, Doug <FTA>"
Subject: RE: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Amanetta,

We would then consider the "streetscape" project not exempt and also not regionally significant. Is this correct?

Have your other comments related to the Triad PM 2.5 "Regionally Significant" and Exempt Project List been addressed by the MPO?

Please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Wood.Amanetta@epamail.epa.gov
[mailto:Wood.Amanetta@epamail.epa.gov]
Sent: Tuesday, November 01, 2005 5:00 PM
To: Scott Rhine (E-mail); Lydia McIntyre (E-mail); Dancausse, Edward
Cc: Benjamin.Lynorae@epamail.epa.gov; Wood.Amanetta@epamail.epa.gov
Subject: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Hello all:

I previously had questions regarding the Street Scape project listed in Greensboro's exempt list and after review of the additional information and consultation with headquarters, we consider the project is NOT exempt. The project does not fit any of the criteria in 93.126 (exempt projects). Given that it is 1.5 miles long and involves seven interchanges, it doesn't fit any of the criteria in 93.127 either.

Amanetta Wood, Environmental Scientist
U.S. Environmental Protection Agency, Region 4
Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Email: wood.amanetta@epa.gov
Phone: (404) 562-9025
Fax: (404) 562-9019

-----Original Message-----

Lydia,

EPA still has a couple of questions dealing with the following project:

Greensboro MPO Area: The East Market Street projects decreases in laneage from 6 lanes to four lanes. This is not an exempt project.

MPO Reply:
Response: This project is a "streetscape" project. The six lanes in this project consisted of 4 lanes and 2 turn lanes. This project eliminated the 2 turn lanes and replaced them with a median. We believe this project meets the definition of an exempt project per 40 CFR 93.126 and 93.127.

EPA's follow up questions are:
1. How extensive is this project?
2. What is the number of intersections impacted by this project?
3. What is the mileage associated with this project?

Please provide responses to me as soon as you can. If you have any questions or if you would like to discuss further, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: FW: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists
Date: Tue, 29 Nov 2005 08:26:30 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Monday, November 07, 2005 11:08 AM
To: Scott Rhine (E-mail); Lydia McIntyre (E-mail); Behshad Norowzi (E-mail); Heather Hildebrandt (E-mail); Frate, Doug <FTA>; Derry Schmidt (E-mail); Craig Hughes (E-mail); Hanna Cockburn (E-mail); Gregory Errett (E-mail); Wendy Miller (E-mail); Monica Kerr (E-mail); Mike Nunn (E-mail); Michael Abuya (E-mail); Marley, Bill; Michelle Renee Farmer (E-mail)
Cc: Wilner, Marcus
Subject: FW: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Looks like we have agency (EPA/FTA/NCDENR/FHWA) agreement on the Regionally Significant and Exempt Project list for the Triad PM2.5 Conformity Process. See email from EPA below.

If you have any questions, please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Wood.Amanetta@epamail.epa.gov
[mailto:Wood.Amanetta@epamail.epa.gov]
Sent: Monday, November 07, 2005 10:20 AM
To: Dancausse, Edward
Subject: RE: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Hello Eddie,

At this time EPA does not have any further comments.

Amanetta Wood

Amanetta Wood, Environmental Scientist
U.S. Environmental Protection Agency, Region 4
Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Email: wood.amanetta@epa.gov

Phone: (404) 562-9025
Fax: (404) 562-9019

"Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
11/03/2005 12:42 PM

To: Amanetta Wood/R4/USEPA/US@EPA
cc: Lynorae Benjamin/R4/USEPA/US@EPA, "Lydia McIntyre (E-mail)" <lydia.mcintyre@ci.greensboro.nc.us>, "Scott Rhine (E-mail)" <scottr@partnc.org>
Subject: RE: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Amanetta,

To follow up on your phone message from yesterday.

Let me further clarify....
Your comment is that the streetscape project is not exempt and is regionally significant. The MPO agrees with your comment and the project list will be corrected to reflect that the streetscape project is regionally significant.

Have your other comments related to the Triad PM 2.5 "Regionally Significant" and Exempt Project List been addressed by the MPO?

If you have any additional questions, please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Dancausse, Edward
Sent: Wednesday, November 02, 2005 4:10 PM
To: 'Wood.Amanetta@epamail.epa.gov'
Cc: Behshad Norowzi (E-mail); Derry Schmidt (E-mail); Heather Hildebrandt (E-mail); Lydia McIntyre (E-mail); Benjamin.Lynorae@epamail.epa.gov; Scott Rhine (E-mail)
Subject: RE: EPA's Response: IC partner review and comment on the Triad

PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Amanetta,

The change will be made to the streetscape project. Exempt to Regional Significant.

Have your other comments related to the Triad PM 2.5 "Regionally Significant" and Exempt Project List been addressed by the MPO?

Please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Wood.Amanetta@epamail.epa.gov
[mailto:Wood.Amanetta@epamail.epa.gov]
Sent: Wednesday, November 02, 2005 9:15 AM
To: Dancausse, Edward
Cc: Behshad Norowzi (E-mail); Derry Schmidt (E-mail); Heather Hildebrandt (E-mail); Lydia McIntyre (E-mail); Benjamin.Lynorae@epamail.epa.gov; Scott Rhine (E-mail)
Subject: RE: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Hello All,

We will not be able to consider the East Market Street project as a non-regionally significant project because in the project description provided by the MPO it is a principal arterial. Per 93.101 a Regionally Significant project means a transportation project (other than an exempt project) that is on a facility which serves regional transportation needs (such as access to and from the area outside of the region, major activity centers in the region, major planned developments such as new retail malls, sports complexes, etc., or transportation terminals as well as most terminals themselves) and would normally be included in the modeling of a metropolitan area's transportation network, including at a minimum all principal arterial highways and all fixed guideway transit facilities that offer an alternative to regional highway travel.

Greensboro Urban Area 2030 Multi-Modal Long Range Transportation Plan
List of Exempt TIP Projects in the Guilford County Area

|----------+----+----------+-------+-------+---------+----------+--
----------|

| FACILITY | TIP| DESCRIPTION | MILES | # | HORIZON | FEDERAL
| REGIONAL |
| | # | | | LANES | YR # | FUNCTIONAL
| SIGNIFICANT|
| | | | | | LANES | CLASS
| |

2005-2014 Horizon Year - Greensboro MPO Area						
East Market No Street		Streetscape and Traffic Management		6 lane divided	4 lane divided	Principal Arterial

Amanetta Wood, Environmental Scientist
U.S. Environmental Protection Agency, Region 4
Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Email: wood.amanetta@epa.gov
Phone: (404) 562-9025
Fax: (404) 562-9019

"Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
11/02/2005 08:39 AM

To: Amanetta Wood/R4/USEPA/US@EPA

cc: Lynorae Benjamin/R4/USEPA/US@EPA, "Scott Rhine (E-mail)" <scottr@partnc.org>, "Lydia McIntyre (E-mail)" <lydia.mcintyre@ci.greensboro.nc.us>, "Behshad Norowzi (E-mail)" <bnorowzi@dot.state.nc.us>, "Derry Schmidt (E-mail)" <daschmidt@dot.state.nc.us>, "Heather Hildebrandt (E-mail)" <heather.hildebrandt@ncmail.net>, "Frate, Doug <FTA>"

Subject: RE: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Amanetta,

We would then consider the "streetscape" project not exempt and also not regionally significant. Is this correct?

Have your other comments related to the Triad PM 2.5 "Regionally Significant" and Exempt Project List been addressed by the MPO?

Please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Wood.Amanetta@epamail.epa.gov
[mailto:Wood.Amanetta@epamail.epa.gov]
Sent: Tuesday, November 01, 2005 5:00 PM
To: Scott Rhine (E-mail); Lydia McIntyre (E-mail); Dancausse, Edward
Cc: Benjamin.Lynorae@epamail.epa.gov; Wood.Amanetta@epamail.epa.gov
Subject: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Hello all:

I previously had questions regarding the Street Scape project listed in Greensboro's exempt list and after review of the additional information and consultation with headquarters, we consider the project is NOT exempt. The project does not fit any of the criteria in 93.126 (exempt projects). Given that it is 1.5 miles long and involves seven interchanges, it doesn't fit any of the criteria in 93.127 either.

Amanetta Wood, Environmental Scientist
U.S. Environmental Protection Agency, Region 4
Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Email: wood.amanetta@epa.gov
Phone: (404) 562-9025
Fax: (404) 562-9019

-----Original Message-----

Lydia,

EPA still has a couple of questions dealing with the following project:

Greensboro MPO Area: The East Market Street projects decreases in laneage from 6 lanes to four lanes. This is not an exempt project.

MPO Reply:
Response: This project is a "streetscape" project. The six lanes in this project consisted of 4 lanes and 2 turn lanes. This project eliminated the 2 turn lanes and replaced them with a median. We believe this project meets the definition of an exempt project per 40 CFR 93.126 and 93.127.

EPA's follow up questions are:
1. How extensive is this project?
2. What is the number of intersections impacted by this project?
3. What is the mileage associated with this project?

Please provide responses to me as soon as you can. If you have any questions or if you would like to discuss further, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: FW: Updated Air Quality Report
Date: Tue, 29 Nov 2005 08:24:39 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>

From: Monica D. Kerr [mailto:mkerr@dot.state.nc.us]
Sent: Tuesday, November 15, 2005 9:20 AM
To: Scott Rhine; Dancausse, Edward
Subject: Updated Air Quality Report

Attached is a copy of the updated Air Quality Report.

- Change made: Added the word Department at the end of this sentence "and the emissions factors developed by the Forsyth County Environmental Affairs *Department* (FCEAD)"

Thanks,

Monica

TRIAD Overview & Exec. Summar. 11-15-05.doc	**Name:** TRIAD Overview & Exec. Summar. 11-15-05.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Subject: **PM2.5 mapping**
Date: Mon, 28 Nov 2005 15:00:27 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Wendy Miller'" <WENDYM@cityofws.org>,
"'McIntyre, Lydia'" <Lydia.McIntyre@greensboro-nc.gov>, <burlmpo@ci.burlington.nc.us>,
"'CRAIG HUGHES'" <craig.hughes@highpointnc.gov>
CC: "'Meyer, Tyler'" <Tyler.Meyer@greensboro-nc.gov>, "'Greg Errett'" <GREGE@cityofws.org>,
"'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>

We need to include a pdf map of each MPO areas long range transportation plan. This should be included in the draft report going out for public comment. This is the same map that you provided during your last LRTP update/Air Quality conformity (ozone).

Please email your map to me, and James Upchurch at NCDOT (jhupchurch@dot.state.nc.us) by the end of the week.

Thank you, and please let me know if you have any questions.

PART
piedmont authority for regional transportation

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

Subject: RE: [WARNING: MESSAGE ENCRYPTED]Re: Triad PM 2.5 Conformity Regional Emissions Analysis
Date: Tue, 22 Nov 2005 16:30:03 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Dancausse, Edward'" <Edward.Dancausse@fhwa.dot.gov>,
"'Behshad Norowzi \(E-mail\)'" <bnorowzi@dot.state.nc.us>,
"'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>,
"'Monica Kerr \(E-mail\)'" <mkerr@dot.state.nc.us>,
"'Derry Schmidt \(E-mail\)'" <daschmidt@dot.state.nc.us>
CC: "'Heather Hildebrandt \(E-mail\)'" <heather.hildebrandt@ncmail.net>,
"'Frate, Doug <FTA>'" <Doug.Frate@fta.dot.gov>,
"'Barren, Loretta'" <Loretta.Barren@fhwa.dot.gov>,
"'Dr. Wayne C. Davis'" <wcdavis@dot.state.nc.us>

Thanks Eddie.

James, please let me know what information you need for me to compile for completion of the full document. Thanks

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Tuesday, November 22, 2005 2:25 PM
To: Behshad Norowzi (E-mail); Upchurch, James (E-mail); Monica Kerr (E-mail); Derry Schmidt (E-mail)
Cc: Scott Rhine (E-mail); Heather Hildebrandt (E-mail); Frate, Doug <FTA>; Barren, Loretta
Subject: FW: [WARNING: MESSAGE ENCRYPTED]Re: Triad PM 2.5 Conformity Regional Emissions Analysis

Good news. Looks like EPA is OK with the Triad PM2.5 Conformity Regional Emissions Analysis.

If you have nay questions, please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Wood.Amanetta@epamail.epa.gov
[mailto:Wood.Amanetta@epamail.epa.gov]
Sent: Tuesday, November 22, 2005 1:52 PM
To: Dancausse, Edward
Cc: Benjamin.Lynorae@epamail.epa.gov; Wood.Amanetta@epamail.epa.gov
Subject: [WARNING: MESSAGE ENCRYPTED]Re: Triad PM 2.5 Conformity Regional Emissions Analysis

Hello All,

After reviewing the additional information that was provided, EPA has no comments regarding the regional emissions analysis. We look forward to

reviewing the draft conformity report when it comes in.

Amanetta Wood, Environmental Scientist
U.S. Environmental Protection Agency, Region 4
Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Email: wood.amanetta@epa.gov
Phone: (404) 562-9025
Fax: (404) 562-9019

"Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>

11/10/2005 03:31 PM

To: "Frate, Doug <FTA>", Amanetta Wood/R4/USEPA/US@EPA

cc: "Heather Hildebrandt (E-mail)" <heather.hildebrandt@ncmail.net>, "Scott Rhine (E-mail)" <scottr@partnc.org>, "Behshad Norowzi (E-mail)" <bnorowzi@dot.state.nc.us>, "Derry Schmidt (E-mail)" <daschmidt@dot.state.nc.us>, Lynorae Benjamin/R4/USEPA/US@EPA, "Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>

Subject: Triad PM 2.5 Conformity Regional Emissions Analysis

Doug/Amanetta,

We are in the process of pulling together the draft conformity determination report (CDR) for the Triad PM2.5 conformity process. We hope to have the CDR to you for the draft document review by November 28, 2005. The regional emissions analysis that will be a major component of the CDR has been completed. We want to share the results of the analysis and get your input prior to the release of the draft CDR.

Please review and provide any comments/questions by 11/18/05.

If you have any questions or need additional information, please let me know.

Thanks
Eddie

<<2005 EF Summary11-04-05.xls>> <<Davidson Co_Rural Spreadsheet11-04-05.xls>> <<DavidsonPM2.5-11-04-05.xls>>

Edward J. Dancausse

Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

(See attached file: 2005 EF Summary11-04-05.xls)(See attached file: Davidson Co_Rural Spreadsheet11-04-05.xls)(See attached file: DavidsonPM2.5-11-04-05.xls)

Subject: **FW: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists**
Date: Tue, 29 Nov 2005 08:27:44 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Wednesday, November 02, 2005 8:39 AM
To: Wood.Amanetta@epamail.epa.gov
Cc: Benjamin.Lynorae@epamail.epa.gov; Scott Rhine (E-mail); Lydia McIntyre (E-mail); Behshad Norowzi (E-mail); Derry Schmidt (E-mail); Heather Hildebrandt (E-mail); Frate, Doug <FTA>
Subject: RE: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Amanetta,

We would then consider the "streetscape" project not exempt and also not regionally significant. Is this correct?

Have your other comments related to the Triad PM 2.5 "Regionally Significant" and Exempt Project List been addressed by the MPO?

Please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Wood.Amanetta@epamail.epa.gov
[mailto:Wood.Amanetta@epamail.epa.gov]
Sent: Tuesday, November 01, 2005 5:00 PM
To: Scott Rhine (E-mail); Lydia McIntyre (E-mail); Dancausse, Edward
Cc: Benjamin.Lynorae@epamail.epa.gov; Wood.Amanetta@epamail.epa.gov
Subject: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Hello all:

I previously had questions regarding the Street Scape project listed in Greensboro's exempt list and after review of the additional information and consultation with headquarters, we consider the project is NOT exempt. The project does not fit any of the criteria in 93.126 (exempt projects). Given that it is 1.5 miles long and involves seven interchanges, it doesn't fit any of the criteria in 93.127 either.

Amanetta Wood, Environmental Scientist
U.S. Environmental Protection Agency, Region 4

Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Email: wood.amanetta@epa.gov
Phone: (404) 562-9025
Fax: (404) 562-9019

-----Original Message-----

Lydia,

EPA still has a couple of questions dealing with the following project:

Greensboro MPO Area: The East Market Street projects decreases in laneage from 6 lanes to four lanes. This is not an exempt project.

MPO Reply:
Response: This project is a "streetscape" project. The six lanes in this project consisted of 4 lanes and 2 turn lanes. This project eliminated the 2 turn lanes and replaced them with a median. We believe this project meets the definition of an exempt project per 40 CFR 93.126 and 93.127.

EPA's follow up questions are:
1. How extensive is this project?
2. What is the number of intersections impacted by this project?
3. What is the mileage associated with this project?

Please provide responses to me as soon as you can. If you have any questions or if you would like to discuss further, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Dancausse, Edward
Sent: Monday, October 24, 2005 4:07 PM
To: 'Amanetta Wood (E-mail)'
Cc: Frate, Doug <FTA>; 'Heather Hildebrandt (E-mail)'; 'Craig Hughes (E-mail)'; 'Scott Rhine (E-mail)'; Benjamin, Lynorae (E-mail); Lydia McIntyre (E-mail); Craig Hughes (E-mail); Wilner, Marcus
Subject: MPO reply to EPA Comments: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Amanetta,

The attached file below contains the MPO reply to your comments. Please review the responses to your comments and let me know if your comments have been addressed (or not) by 10/28/05.

I have also attached the High Point MPO revised exempt project list. As you will see in the MPO reply to your comments this revised exempt list clears up a large number of your comments.

If you have any questions, please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Dancausse, Edward
Sent: Monday, October 17, 2005 9:27 AM
To: Amanetta Wood (E-mail)
Cc: Frate, Doug <FTA>; Heather Hildebrandt (E-mail); Craig Hughes (E-mail); Scott Rhine (E-mail)
Subject: FW: Action Requested by 10/14/05: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

The project list that the High Point MPO provided for our review of regional significant and exempt projects was not the correct list. Provided below is a correct list. The comments that you provided will be addressed by the MPO (a reply will be provided for each comment). In the meantime you will find that most of your comments are addressed (based on the correct project list below).

If you have any questions, please let me know

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: **FW: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists**
Date: Tue, 29 Nov 2005 08:27:30 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>

-----Original Message-----
From: Wood.Amanetta@epamail.epa.gov [mailto:Wood.Amanetta@epamail.epa.gov]
Sent: Wednesday, November 02, 2005 9:15 AM
To: Dancausse, Edward
Cc: Behshad Norowzi (E-mail); Derry Schmidt (E-mail); Heather Hildebrandt (E-mail); Lydia McIntyre (E-mail); Benjamin.Lynorae@epamail.epa.gov; Scott Rhine (E-mail)
Subject: RE: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Hello All,

We will not be able to consider the East Market Street project as a non-regionally significant project because in the project description provided by the MPO it is a principal arterial. Per 93.101 a Regionally Significant project means a transportation project (other than an exempt project) that is on a facility which serves regional transportation needs (such as access to and from the area outside of the region, major activity centers in the region, major planned developments such as new retail malls, sports complexes, etc., or transportation terminals as well as most terminals themselves) and would normally be included in the modeling of a metropolitan area's transportation network, including at a minimum all principal arterial highways and all fixed guideway transit facilities that offer an alternative to regional highway travel.

Greensboro Urban Area 2030 Multi-Modal Long Range Transportation Plan List of Exempt TIP Projects in the Guilford County Area

FACILITY	TIP #	DESCRIPTION	MILES	# LANES	HORIZON YR # LANES	FEDERAL FUNCTIONAL CLASS	REGIONAL SIGNIFICANT
2005-2014 Horizon Year - Greensboro MPO Area							
East Market Street		Streetscape and Traffic Management		6 lane divided	4 lane divided	Principal Arterial	No

----------|

Amanetta Wood, Environmental Scientist
U.S. Environmental Protection Agency, Region 4 Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Email: wood.amanetta@epa.gov
Phone: (404) 562-9025
Fax: (404) 562-9019

"Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
11/02/2005 08:39 AM

To: Amanetta Wood/R4/USEPA/US@EPA

cc: Lynorae Benjamin/R4/USEPA/US@EPA, "Scott Rhine (E-mail)" <scottr@partnc.org>, "Lydia McIntyre (E-mail)" <lydia.mcintyre@ci.greensboro.nc.us>, "Behshad Norowzi (E-mail)" <bnorowzi@dot.state.nc.us>, "Derry Schmidt (E-mail)" <daschmidt@dot.state.nc.us>, "Heather Hildebrandt (E-mail)" <heather.hildebrandt@ncmail.net>, "Frate, Doug <FTA>"

Subject: RE: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Amanetta,

We would then consider the "streetscape" project not exempt and also not regionally significant. Is this correct?

Have your other comments related to the Triad PM 2.5 "Regionally Significant" and Exempt Project List been addressed by the MPO?

Please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112

919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Wood.Amanetta@epamail.epa.gov
[mailto:Wood.Amanetta@epamail.epa.gov]
Sent: Tuesday, November 01, 2005 5:00 PM
To: Scott Rhine (E-mail); Lydia McIntyre (E-mail); Dancausse, Edward
Cc: Benjamin.Lynorae@epamail.epa.gov; Wood.Amanetta@epamail.epa.gov
Subject: EPA's Response: IC partner review and comment on the Triad PM2.5 nonattainment area "Regionally Significant" and "Exempt" Project lists

Hello all:

I previously had questions regarding the Street Scape project listed in Greensboro's exempt list and after review of the additional information and consultation with headquarters, we consider the project is NOT exempt. The project does not fit any of the criteria in 93.126 (exempt projects). Given that it is 1.5 miles long and involves seven interchanges, it doesn't fit any of the criteria in 93.127 either.

Amanetta Wood, Environmental Scientist
U.S. Environmental Protection Agency, Region 4 Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Email: wood.amanetta@epa.gov
Phone: (404) 562-9025
Fax: (404) 562-9019

-----Original Message-----

Lydia,

EPA still has a couple of questions dealing with the following project:

Greensboro MPO Area: The East Market Street projects decreases in laneage from 6 lanes to four lanes. This is not an exempt project.

MPO Reply:
Response: This project is a "streetscape" project. The six lanes in this project consisted of 4 lanes and 2 turn lanes. This project eliminated the 2 turn lanes and replaced them with a median. We believe this project meets the definition of an exempt project per 40 CFR 93.126 and 93.127.

EPA's follow up questions are:
1. How extensive is this project?
2. What is the number of intersections impacted by this project?
3. What is the mileage associated with this project?

Please provide responses to me as soon as you can. If you have any questions or if you would like to discuss further, please let me know.

Thanks
Eddie

Edward J. Dancausse

Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: RE: Air Quality PM 2.5 Draft
Date: Thu, 17 Nov 2005 08:59:06 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Monica D. Kerr'" <mkerr@dot.state.nc.us>,
"'Dancausse, Edward'" <Edward.Dancausse@fhwa.dot.gov>,
"'Behshad Norowzi'" <bnorowzi@dot.state.nc.us>
CC: "'James Upchurch'" <jhupchurch@dot.state.nc.us>,
"'Dr. Wayne C. Davis'" <wcdavis@dot.state.nc.us>

Monica good morning. Please let me know if you would like me to prepare anything for the full document (or assist in any way). Thanks
Scott

-----Original Message-----
From: Monica D. Kerr [mailto:mkerr@dot.state.nc.us]
Sent: Monday, November 14, 2005 4:15 PM
To: Scott Rhine; Dancausse, Edward; Behshad Norowzi
Cc: James Upchurch
Subject: Air Quality PM 2.5 Draft

Good Afternoon,

Attached you will find the TRIAD PM 2.5 Executive Summary and Overview for distribution to the MPO's TAC/TCC committees.

Thank you,

Monica

Subject: Fwd: Re: FW: Air Quality PM 2.5 Draft
Date: Tue, 29 Nov 2005 09:30:06 -0500
From: "Greg Errett" <GREGE@cityofws.org>
To: <jhupchurch@dot.state.nc.us>

James: As we just discussed.

Greg Errett, AICP
Planning Development Coordinator
City of Winston-Salem Department of Transportation
P.O. Box 2511
Winston-Salem, North Carolina 27102-2511
(336) 727-2707 Office
(336) 747-6871 Direct
(336) 748-3370 Fax

Subject: Re: FW: Air Quality PM 2.5 Draft
Date: Tue, 15 Nov 2005 14:53:29 -0500
From: "Greg Errett" <GREGE@cityofws.org>
To: "Scott Rhine" <scottr@partnc.org>

Scott: Regarding item 1 below, we had originally planned to do the public review from December 15 through January 13th, as per the time line set by Behshad. That worked ok for us because we like to start the public review of documents on a Thursday so that all of the urban area's newspapers can publish an ad on that date simultaneously. Some of the smaller papers only publish once a week, typically on a Thursday. Also, the 17th is a little tight also because our meeting is on January 19th, so it might be hard to respond to public comments in a timely fashion. Its not a big deal but I thought you should know these two points. Thanks.

Greg Errett, AICP
Planning Development Coordinator
City of Winston-Salem Department of Transportation
P.O. Box 2511
Winston-Salem, North Carolina 27102-2511
(336) 727-2707 Office
(336) 747-6871 Direct
(336) 748-3370 Fax

>>> "Scott Rhine" <scottr@partnc.org> 11/15/05 8:41:30 AM >>>
Sorry for any delay I have made in getting this overview/executive summary to you. To recap conversations I have had with all of you individually the following steps should take place between now and the time we make the full document available for the public review period.

1) Make the attached document available to your MPO committee's at their November meeting as information, and seek endorsement of the draft document for release to the public for the 30-day comment period December 17 - January 17, 2006.

2) PART will work with the City of Winston-Salem to create a public notice that can be used by all MPO's, PART, and PTRPO for advertisement of the 30-day review period. Once finalized I will distribute this to you for advertising in your local paper(s). This will create consistence for all MPO's, and hopefully eliminate any confusion for the public.

3) PART will make hard copies available to all MPO's prior to the 15th, and provide an electronic version for posting on web sites.

At this point the full document is being "fine tuned" and finalized by the

NCDOT Transportation Planning Branch, and will be distributed to state/federal agencies for their internal review prior to distribution to the public.

If you have any questions on any of the above, or the attached document please don't hesitate to contact me at your convenience.

Have a great day!
Scott

-----Original Message-----
From: Monica D. Kerr [mailto:mkerr@dot.state.nc.us]
Sent: Monday, November 14, 2005 4:15 PM
To: Scott Rhine; Dancausse, Edward; Behshad Norowzi
Cc: James Upchurch
Subject: Air Quality PM 2.5 Draft

Good Afternoon,

Attached you will find the TRIAD PM 2.5 Executive Summary and Overview for distribution to the MPO's TAC/TCC committees.

Thank you,

Monica

Subject: RE: Air Quality PM 2.5 Draft
Date: Tue, 15 Nov 2005 08:18:26 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Monica D. Kerr'" <mkerr@dot.state.nc.us>,
"'Dancausse, Edward'" <Edward.Dancausse@fhwa.dot.gov>,
"'Behshad Norowzi'" <bnorowzi@dot.state.nc.us>
CC: "'James Upchurch'" <jhupchurch@dot.state.nc.us>

Thank you Monica, and others for all your work/participation.

-----Original Message-----
From: Monica D. Kerr [mailto:mkerr@dot.state.nc.us]
Sent: Monday, November 14, 2005 4:15 PM
To: Scott Rhine; Dancausse, Edward; Behshad Norowzi
Cc: James Upchurch
Subject: Air Quality PM 2.5 Draft

Good Afternoon,

Attached you will find the TRIAD PM 2.5 Executive Summary and Overview for distribution to the MPO's TAC/TCC committees.

Thank you,

Monica

Subject: **Air Quality PM 2.5 Draft**
Date: Mon, 14 Nov 2005 16:15:24 -0500
From: "Monica D. Kerr" <mkerr@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: Scott Rhine <scottr@partnc.org> ,
"Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov> ,
Behshad Norowzi <bnorowzi@dot.state.nc.us>
CC: James Upchurch <jhupchurch@dot.state.nc.us>

Good Afternoon,

Attached you will find the TRIAD PM 2.5 Executive Summary and
Overview for distribution to the MPO's TAC/TCC committees.

Thank you,

Monica

TRIAD Overview & Exec. Summar. 11-14-05.pdf	**Name:** TRIAD Overview & Exec. Summar. 11-14-05.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

Subject: **Re: 2006 PM 2.5 Air Quality Exec. Summary & Overview**
Date: Mon, 14 Nov 2005 13:42:04 -0500
From: "Monica D. Kerr" <mkerr@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: Mike Bruff <mbruff@dot.state.nc.us> ,
"Alena R. Cook, PE" <arcook@dot.state.nc.us> ,
"Dr. Wayne C. Davis" <wcdavis@dot.state.nc.us> ,
James Upchurch <jhupchurch@dot.state.nc.us> ,
Behshad Norowzi <bnorowzi@dot.state.nc.us>

I apologize it has been a long day **:).**

"Monica D. Kerr" wrote:

> Good Afternoon,
>
> We have finished the Executive Summary and Overview which is attached for your comments and review. Please submit any comments or suggestions to me by this afternoon if possible. We would like to distribute this information tomorrow to the MPO's for their November TCC/TAC Meetings.
>
> Thanks

Executive Summary Triad Overview Comment Page.doc	**Name:** Executive Summary Triad Overview Comment Page.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Subject: RE: FHWA Comments on Triad PM 2.5 Conformity Report Overview and Executive Summary
Date: Mon, 14 Nov 2005 11:40:06 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Dancausse, Edward'" <Edward.Dancausse@fhwa.dot.gov>, "'Monica Kerr \(E-mail\)'" <mkerr@dot.state.nc.us>
CC: "'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>, "'Behshad Norowzi \(E-mail\)'" <bnorowzi@dot.state.nc.us>, "'Wilner, Marcus'" <Marcus.Wilner@fhwa.dot.gov>

Thanks Eddie. Just to throw out something for consideration I have incorporated Monica's additions, and removed the items you had suggested into the attached. The only thing really different from what Monica had edited and provided for your review was the removal of the Nash and Edgecombe references in the table of contents.

My only purpose of providing this to you all for consideration is that the local MPO's need something fairly clean to what the public review document will look like prior to it's release Dec. 15. For your information, BG MPO meets tomorrow. Greensboro meets Wednesday, High Point is the 22nd, and Winston-Salem meets on the 30th. None of the MPO's are planning to meet in December.

Thanks for your continued input.
Scott

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Monday, November 14, 2005 11:01 AM
To: Monica Kerr (E-mail); Scott Rhine (E-mail)
Cc: Upchurch, James (E-mail); Behshad Norowzi (E-mail); Wilner, Marcus
Subject: FHWA Comments on Triad PM 2.5 Conformity Report Overview and Executive Summary

Monica/Scott

The attached file below contains my suggested comments. If you have any questions, please let me know.

Eddie

<<Triad Overview and Executive Summary_FHWA Comments 11.14.05.doc>>

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

2006 Triad PM2 5 Overview Executive Summary Report.doc	**Name:** 2006 Triad PM2 5 Overview Executive Summary Report.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Subject: **FHWA Comments on Triad PM 2.5 Conformity Report Overview and Executive Summary**
Date: Mon, 14 Nov 2005 11:00:39 -0500
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "Monica Kerr \(E-mail\)" <mkerr@dot.state.nc.us>,
"Scott Rhine \(E-mail\)" <scottr@partnc.org>
CC: "Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>

Monica/Scott

The attached file below contains my suggested comments. If you have any questions, please let me know.

Eddie

<<Triad Overview and Executive Summary_FHWA Comments 11.14.05.doc>>

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Triad Overview and Executive Summary_FHWA Comments 11.14.05.doc	**Name:** Triad Overv Executive Summary_F Comments 11.14.05.dc **Type:** Microsoft W Document (applicatior **Encoding:** base64 **Description:** Triad Overv Executive Summary_F Comments 11.14.05.dc

Subject: **[Fwd: Triad PM2.5 Overview and Executive Summary]**
Date: Mon, 14 Nov 2005 09:32:03 -0500
From: "Monica D. Kerr" <mkerr@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: Behshad Norowzi <bnorowzi@dot.state.nc.us> ,
James Upchurch <jhupchurch@dot.state.nc.us>

Subject: **Triad PM2.5 Overview and Executive Summary**
Date: Fri, 11 Nov 2005 16:10:54 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Dancausse, Edward'" <Edward.Dancausse@fhwa.dot.gov>,
"'Monica Kerr \(E-mail\)'" <mkerr@dot.state.nc.us>

See the attached. Is this a sufficient second submittal for reaching endorsement from the MPO's to release for the public comment period beginning mid-December? Thanks

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

2006 Triad PM2 5 Overview Executive Summary Report.doc	**Name:** 2006 Triad PM2 5 Overview Executive Summary Report.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Subject: RE: Triad PM2.5 Conformity draft report
Date: Thu, 10 Nov 2005 16:34:37 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Dr. Wayne C. Davis'" <wcdavis@dot.state.nc.us>,
"'Meyer, Tyler'" <Tyler.Meyer@ci.greensboro.nc.us>,
"'PHILIP WYLIE'" <phil.wylie@highpointnc.gov>,
"'Greg Errett'" <"GREGE.LSP-PO.City of Winston-Salem"@cityofws.org>,
<burlmpo@ci.burlington.nc.us>
CC: "'Alena R. Cook, PE'" <arcook@dot.state.nc.us>,
"'James Upchurch'" <jhupchurch@dot.state.nc.us>,
"'Monica D. Kerr'" <mkerr@dot.state.nc.us>,
"'Behshad Norowzi'" <bnorowzi@dot.state.nc.us>

Thanks Wayne. I've included BG MPO since they a part of the Triad PM2.5. To give an overview of occurrences. PART gave Eddie a initial draft (review draft) of the Triad PM2.5 report on 10/28/05; prior to receipt of completed emission analysis from NCDOT.

The planning branch will include the finalized emissions analysis with any edited verbiage PART had prepared and a Executive Summary will be finalized by Monday 11/21/05. Following a review by FHWA on Monday of the Executive Summary, PART will provide copies to the Burlington-Graham MPO for their Nov. 15 MPO meeting, the Greensboro MPO meeting on Nov. 16, and the High Point and Winston-Salem MPO the following weeks.

The full document will be finalized for internal agency reviews, and available for the release to the public as scheduled the week of 12/17/05. Thanks for all your participation.

-----Original Message-----
From: Dr. Wayne C. Davis [mailto:wcdavis@dot.state.nc.us]
Sent: Thursday, November 10, 2005 2:13 PM
To: Meyer, Tyler; PHILIP WYLIE; Greg Errett
Cc: Alena R. Cook, PE; James Upchurch; Monica D. Kerr; Behshad Norowzi
Subject: Triad PM2.5 Conformity draft report

To The Greensboro, High Point, and Winston Salem Urban Area MPOs:

Per discussions with Eddie Dancausse and Behshad Norowzi, TPB will enhance and modify the pre-draft of the Triad PM 2.5 AQ Conformity report. TPB will work on the report to provide the final draft for resource agencies reviews and public comments.
This approach is for timely completion of the AQ conformity analysis and report for the Triad area.

Wayne

--
Wayne C. Davis, Ph.D., P.E., CPM.
Triad Planning Group Supervisor
NCDOT - Transportation Planning Branch, Triad Unit
1554 Mail Service Center, Raleigh, NC 27699-1554 Phone #: 919-733-4705, ext. 27 (Off.), 919-733-2417 (Fax)
Email: wcdavis@dot.state.nc.us

Subject: **Update Triad PM2.5 Schedule**
Date: Thu, 10 Nov 2005 15:14:59 -0500
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "Marley, Bill" <Bill.Marley@fhwa.dot.gov>,
"Frate, Doug <FTA>" <Doug.Frate@fta.dot.gov>,
"Heather Hildebrandt \(E-mail\)" <heather.hildebrandt@ncmail.net>,
"Amanetta Wood \(E-mail\)" <Wood.Amanetta@epamail.epa.gov>,
"Cary Gentry \(E-mail\)" <gentrycd@forsyth.cc>,
"Craig Hughes \(E-mail\)" <craig.hughes@ci.high-point.nc.us>,
"Gregory Errett \(E-mail\)" <GREGE@cityofws.org>,
"Hanna Cockburn \(E-mail\)" <hcockburn@ptcog.org>,
"Lydia McIntyre \(E-mail\)" <lydia.mcintyre@ci.greensboro.nc.us>,
"Mike Nunn \(E-mail\)" <mnunn@mblsolution.com>,
"Patrick Reagan \(E-mail\)" <reaganpa@co.forsyth.nc.us>,
"Peggy Holland \(E-mail\)" <peggy.holland@ci.greensboro.nc.us>,
"Scott Rhine \(E-mail\)" <scottr@partnc.org>,
"Tyler Meyers \(E-mail\)" <tyler.meyer@ci.greensboro.nc.us>,
"Wendy Miller \(E-mail\)" <wendym@cityofws.org>,
"Alena Cook \(E-mail\)" <arcook@dot.state.nc.us>,
"Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Dan Thomas \(E-mail\)" <danthomas@dot.state.nc.us>,
"Derry Schmidt \(E-mail\)" <daschmidt@dot.state.nc.us>,
"Jamal Alavi \(E-mail\)" <jalavi@dot.state.nc.us>,
"Marley, Bill" <Bill.Marley@fhwa.dot.gov>,
"Michael Abuya \(E-mail\)" <mrabuya@dot.state.nc.us>,
"Michelle Renee Farmer \(E-mail\)" <mrfarmer@dot.state.nc.us>,
"Monica Kerr \(E-mail\)" <mkerr@dot.state.nc.us>,
"Upchurch, James \(E-mail\)" <jhupchurch@dot.state.nc.us>,
"Wayne Davis \(E-mail\)" <wcdavis@dot.state.nc.us>
CC: "Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>

The attached file below contains a revised schedule for the Triad PM2.5 conformity process for your information.

If you have any questions, please let me know.

Eddie

Triad-PM2.5-11-10-05.pdf	**Name:** Triad-PM2.5-11-10-05.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64 **Description:** Triad-PM2.5-11-10-05.pdf

Subject: Re: Triad PM 2.5 CDR
Date: Wed, 30 Nov 2005 09:01:32 -0500
From: James Upchurch <jhupchurch@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
CC: "Monica D. Kerr" <mkerr@dot.state.nc.us>,
"Dr. Wayne C. Davis" <wcdavis@dot.state.nc.us>

Eddie,
Attached is the Triad PM 2.5 Conformity report document. This document does not include appendices or maps. They will be added prior to public review. Please review and respond with comments by December 5th. All MPO's are scheduled to go to public review December 15th. Thanks for your assistance in pulling the document together. We'll speak again on Thursday, because I'll be in meetings today.
James.

"Dancausse, Edward" wrote:

> *James,*
>
> *Thanks for the update. Look forward to getting the conformity report tomorrow.*
>
> *Eddie*
>
> *Edward J. Dancausse*
> *Air Quality Specialist*
> *FHWA NC Division*
> *919-856-4330 x112*
> *919-856-4353(fax)*
> *edward.dancausse@fhwa.dot.gov*
> *www.fhwa.dot.gov/ncdiv/*

--
James Upchurch
Transportation Engineer III
North Carolina Department of Transportation
1554 Mail Service Center
Raleigh, NC 27699-1554
(919) 733-4705
(919) 733-2417

2006 Triad PM2 5 Conformity Analysis and Determination Report Nov30.doc	**Name:** 2006 Triac Conformit and Deter Report No **Type:** Microsoft Document (applicatic **Encoding:** base64

Subject: **[Fwd: PM2.5 Conformity Schedules]**
Date: Wed, 07 Dec 2005 14:53:41 -0500
From: Behshad Norowzi <bnorowzi@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: James Upchurch <jhupchurch@dot.state.nc.us> ,
"Monica D. Kerr" <mkerr@dot.state.nc.us> , Linh Nguyen <lnguyen@dot.state.nc.us>

Subject: **PM2.5 Conformity Schedules**
Date: Wed, 7 Dec 2005 14:50:19 -0500
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "Amanetta Wood \(E-mail\)" <Wood.Amanetta@epamail.epa.gov>,
"Frate, Doug <FTA>" <Doug.Frate@fta.dot.gov>,
"Heather Hildebrandt \(E-mail\)" <heather.hildebrandt@ncmail.net>
CC: "Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Scott Rhine \(E-mail\)" <scottr@partnc.org>,
"Heather Hildebrandt \(E-mail\)" <heather.hildebrandt@ncmail.net>,
"Barren, Loretta" <Loretta.Barren@fhwa.dot.gov>,
"Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>,
"Mike Nunn \(E-mail\)" <mnunn@mblsolution.com>,
"Lydia McIntyre \(E-mail\)" <lydia.mcintyre@ci.greensboro.nc.us>,
"Craig Hughes \(E-mail\)" <craig.hughes@ci.high-point.nc.us>,
"Gregory Errett \(E-mail\)" <GREGE@cityofws.org>,
"Wendy Miller \(E-mail\)" <wendym@cityofws.org>

Amanetta/Doug:

The schedule has slipped a little but there is no impact on meeting the deadline. Looks like I will be sending the draft report to you and FTA by mid next week (12/14). This will coincide with the public review period.

I will send out revised conformity process schedules soon.

If you have any questions, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Behshad Norowzi [mailto:bnorowzi@dot.state.nc.us]
Sent: Monday, December 05, 2005 2:38 PM
To: Dancausse, Edward
Cc: James Upchurch; Monica D. Kerr; Linh Nguyen; Derry A. Schmidt
Subject: Updated Conformity SCH

Hi,
Please see the updated SCH for Triad and Catawba areas and let me know if there is any comments.
Thanks,
Behshad

Subject: RE: PM2.5 Conformity Schedules
Date: Wed, 7 Dec 2005 16:01:13 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Dancausse, Edward'" <Edward.Dancausse@fhwa.dot.gov>
CC: "'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>,
"'Behshad Norowzi \(E-mail\)'" <bnorowzi@dot.state.nc.us>

Public Review is scheduled for 12/15 - 1/13/06 ?

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Wednesday, December 07, 2005 2:50 PM
To: Amanetta Wood (E-mail); Frate, Doug <FTA>; Heather Hildebrandt (E-mail)
Cc: Behshad Norowzi (E-mail); Scott Rhine (E-mail); Heather Hildebrandt (E-mail); Barren, Loretta; Wilner, Marcus; Mike Nunn (E-mail); Lydia McIntyre (E-mail); Craig Hughes (E-mail); Gregory Errett (E-mail); Wendy Miller (E-mail)
Subject: PM2.5 Conformity Schedules

Amanetta/Doug:

The schedule has slipped a little but there is no impact on meeting the deadline. Looks like I will be sending the draft report to you and FTA by mid next week (12/14). This will coincide with the public review period.

I will send out revised conformity process schedules soon.

If you have any questions, please let me know.

Thanks
Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Behshad Norowzi [mailto:bnorowzi@dot.state.nc.us]
Sent: Monday, December 05, 2005 2:38 PM
To: Dancausse, Edward
Cc: James Upchurch; Monica D. Kerr; Linh Nguyen; Derry A. Schmidt
Subject: Updated Conformity SCH

Hi,
Please see the updated SCH for Triad and Catawba areas and let me know if there is any comments.
Thanks,
Behshad

Subject: **[Fwd: Triad PM 2.5 CDR]**
Date: Tue, 06 Dec 2005 10:36:34 -0500
From: Behshad Norowzi <bnorowzi@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: James Upchurch <jhupchurch@dot.state.nc.us>

Subject: **RE: Triad PM 2.5 CDR**
Date: Fri, 2 Dec 2005 09:09:33 -0500
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "James Upchurch" <jhupchurch@dot.state.nc.us>
CC: "Monica D. Kerr" <mkerr@dot.state.nc.us>,
"Dr. Wayne C. Davis" <wcdavis@dot.state.nc.us>,
"Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Derry Schmidt \(E-mail\)" <daschmidt@dot.state.nc.us>,
"Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>

James/Monica,

The attached file below contains suggested changes to the report.

Also please address the following items in the CDR:
1. Make sure that the page numbers/headings in the table of contents match what is in the document.
2. Make sure that all references to tables and appendices in the document are correct.
3. Make sure that the table of appendices match up to the appendices at the end of the document.
4. The appendices at the end of the document were not labeled. Make sure to label what the appendices are (i.e., A, B, C, D, etc.)
5. For appendix D, I do not like the way that all the MPO projects are lumped together by horizon year. Lets provide the project lists by MPOs and rural dount area of Davidson County (let me know if I need to explain further).

Nice first attempt on the CDR.

If you have any question or require additional assistance, please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: James Upchurch [mailto:jhupchurch@dot.state.nc.us]
Sent: Wednesday, November 30, 2005 9:02 AM
To: Dancausse, Edward
Cc: Monica D. Kerr; Dr. Wayne C. Davis
Subject: Re: Triad PM 2.5 CDR

Eddie,

Attached is the Triad PM 2.5 Conformity report document. This document does not include appendices or maps. They will be added prior to public review. Please review and respond with comments by December 5th. All MPO's are scheduled to go to public review December 15th. Thanks for your assistance in pulling the document together. We'll speak again on Thursday, because I'll be in meetings today.
James.

"Dancausse, Edward" wrote:

> *James,*
>
> *Thanks for the update. Look forward to getting the conformity report tomorrow.*
>
> *Eddie*
>
> *Edward J. Dancausse*
> *Air Quality Specialist*
> *FHWA NC Division*
> *919-856-4330 x112*
> *919-856-4353(fax)*
> *edward.dancausse@fhwa.dot.gov*
> *www.fhwa.dot.gov/ncdiv/*

--
James Upchurch
Transportation Engineer III
North Carolina Department of Transportation
1554 Mail Service Center
Raleigh, NC 27699-1554
(919) 733-4705
(919) 733-2417

2006 Triad PM2 5 Conformity Analysis and Determination Report Nov30.doc	**Name:** 2006 Tr Conforn and Det Report I **Type:** Microso Docume (applica **Encoding:** base64 **Description:** 2006 Tr Conforn and Det Report I

Subject: FW:
Date: Fri, 2 Dec 2005 08:50:11 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>

Please confirm receipt. Thanks

From: McIntyre, Lydia [mailto:Lydia.McIntyre@greensboro-nc.gov]
Sent: Wednesday, November 30, 2005 1:26 PM
To: Scott Rhine
Subject:

Hello Scott,

I have put the pdf of the LRTP map and project descriptions on our FTP site. My first emails were sent back, but I believe James did receive it. Also, when do you expect the draft document to be sent to us to be put out for public comment? Let me know if I need to do anything else.

The documents can be uploaded from ftp://ftp.ci.greensboro.nc.us and is in the GDOT folder.

Thanks

Lydia M. McIntyre

Transportation Planning Engineer

Greensboro DOT/MPO

P.O. Box 3136

Greensboro, NC 27402

336-373-3117

==========
Please note that email sent to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

Subject: **[Fwd: Updated Conformity SCH]**
Date: Mon, 05 Dec 2005 15:33:42 -0500
From: Behshad Norowzi <bnorowzi@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: James Upchurch <jhupchurch@dot.state.nc.us>

Subject: **Updated Conformity SCH**
Date: Mon, 05 Dec 2005 14:37:30 -0500
From: Behshad Norowzi <bnorowzi@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: Eddie Dancausse <Edward.Dancausse@fhwa.dot.gov>
CC: James Upchurch <jhupchurch@dot.state.nc.us>,
"Monica D. Kerr" <mkerr@dot.state.nc.us>,
Linh Nguyen <lnguyen@dot.state.nc.us>,
"Derry A. Schmidt" <daschmidt@dot.state.nc.us>

```
Hi,
Please see the updated SCH for Triad and Catawba areas and let me
know if there is any comments.
Thanks,
Behshad
```

Catawba-PM2.5-12-05-05.mpp	**Name:** Catawba-PM2.5-12-05-05.mpp **Type:** application/vnd.ms-project **Encoding:** base64
Catawba-PM2.5-12-05-05.pdf	**Name:** Catawba-PM2.5-12-05-05.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64
Triad-PM2.5-12-05-05.mpp	**Name:** Triad-PM2.5-12-05-05.mpp **Type:** application/vnd.ms-project **Encoding:** base64
Triad-PM2.5-12-05-05.pdf	**Name:** Triad-PM2.5-12-05-05.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

Subject: **PM2.5 Draft Report**
Date: Mon, 12 Dec 2005 12:48:46 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'McIntyre, Lydia'" <Lydia.McIntyre@greensboro-nc.gov>,
"'Wendy Miller'" <WENDYM@cityofws.org>,
"'CRAIG HUGHES'" <craig.hughes@highpointnc.gov>, <burlmpo@ci.burlington.nc.us>,
<gcornman@co.davidson.nc.us>
CC: "'Meyer, Tyler'" <Tyler.Meyer@greensboro-nc.gov>, "'Greg Errett'" <GREGE@cityofws.org>,
<jhupchurch@dot.state.nc.us>,
"'Dancausse, Edward'" <Edward.Dancausse@fhwa.dot.gov>,
"'Reagan, Patrick A'" <reaganpa@forsyth.cc>

The Triad PM2.5 Transportation Conformity Air Quality Analysis draft report is complete. I have made CD's of the full pdf document, and presently have the report being printed. The full document is 364 pages, but the first 71 pages is what's presently being produced at the printer.

The full document is on CD. Your copy of the full report on CD, and printed hard copies will be available by end of business tomorrow. If you or someone from your office is attending the PART Board meeting Wednesday morning - I would like to give you the CD and printed copies for distribution of the report to your various localities where the report will be on display during the public review period.

Also, PART will place the document on our website. If you have any questions, please let me know. Thanks, and have a great day!

PART
piedmont authority for regional transportation

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

Subject: RE: DOT File Transfer System: Triad PM Draft Report for December 15 Public Review
Date: Mon, 12 Dec 2005 11:41:11 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: <jhupchurch@dot.state.nc.us>

Thanks James - I got the file. Have a great day!
Scott

From: jhupchurch@dot.state.nc.us [mailto:jhupchurch@dot.state.nc.us]
Sent: Monday, December 12, 2005 10:53 AM
To: scottr@partnc.org
Subject: DOT File Transfer System: Triad PM Draft Report for December 15 Public Review

Scott,

This is an automated message to notify you that James Upchurch has sent you a message using the DOT File Transfer System.

Please follow this link to retrieve the message:

https://fts.dot.state.nc.us/default.aspx

If you have any questions, please send email to James Upchurch: jhupchurch@dot.state.nc.us

Subject: Re: PM2.5 mapping
Date: Thu, 01 Dec 2005 10:58:17 -0500
From: "Wendy Miller" <WENDYM@cityofws.org>
To: <jhupchurch@dot.state.nc.us>, <scottr@partnc.org>

James and Scott
I've attached the 2030 LRTP map.
Wendy

>>> "Scott Rhine" <scottr@partnc.org> 11/28/05 3:00 PM >>>
We need to include a pdf map of each MPO areas long range transportation plan. This should be included in the draft report going out for public comment. This is the same map that you provided during your last LRTP update/Air Quality conformity (ozone).

Please email your map to me, and James Upchurch at NCDOT (jhupchurch@dot.state.nc.us) by the end of the week.

Thank you, and please let me know if you have any questions.

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org <http://www.partnc.org/>

2030_S&H_Map_B.pdf	**Name:** 2030_S&H_Map_B.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

Subject: **[Fwd: Triad PM 2.5 CDR]**
Date: Tue, 06 Dec 2005 10:36:34 -0500
From: Behshad Norowzi <bnorowzi@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: James Upchurch <jhupchurch@dot.state.nc.us>

Subject: **RE: Triad PM 2.5 CDR**
Date: Fri, 2 Dec 2005 09:09:33 -0500
From: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>
To: "James Upchurch" <jhupchurch@dot.state.nc.us>
CC: "Monica D. Kerr" <mkerr@dot.state.nc.us>,
"Dr. Wayne C. Davis" <wcdavis@dot.state.nc.us>,
"Behshad Norowzi \(E-mail\)" <bnorowzi@dot.state.nc.us>,
"Derry Schmidt \(E-mail\)" <daschmidt@dot.state.nc.us>,
"Wilner, Marcus" <Marcus.Wilner@fhwa.dot.gov>

James/Monica,

The attached file below contains suggested changes to the report.

Also please address the following items in the CDR:
1. Make sure that the page numbers/headings in the table of contents match what is in the document.
2. Make sure that all references to tables and appendices in the document are correct.
3. Make sure that the table of appendices match up to the appendices at the end of the document.
4. The appendices at the end of the document were not labeled. Make sure to label what the appendices are (i.e., A, B, C, D, etc.)
5. For appendix D, I do not like the way that all the MPO projects are lumped together by horizon year. Lets provide the project lists by MPOs and rural dount area of Davidson County (let me know if I need to explain further).

Nice first attempt on the CDR.

If you have any question or require additional assistance, please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: James Upchurch [mailto:jhupchurch@dot.state.nc.us]
Sent: Wednesday, November 30, 2005 9:02 AM
To: Dancausse, Edward
Cc: Monica D. Kerr; Dr. Wayne C. Davis
Subject: Re: Triad PM 2.5 CDR

Eddie,

Attached is the Triad PM 2.5 Conformity report document. This document does not include appendices or maps. They will be added prior to public review. Please review and respond with comments by December 5th. All MPO's are scheduled to go to public review December 15th. Thanks for your assistance in pulling the document together. We'll speak again on Thursday, because I'll be in meetings today.
James.

"Dancausse, Edward" wrote:

> *James,*
>
> *Thanks for the update. Look forward to getting the conformity report tomorrow.*
>
> *Eddie*
>
> *Edward J. Dancausse*
> *Air Quality Specialist*
> *FHWA NC Division*
> *919-856-4330 x112*
> *919-856-4353(fax)*
> *edward.dancausse@fhwa.dot.gov*
> *www.fhwa.dot.gov/ncdiv/*

--
James Upchurch
Transportation Engineer III
North Carolina Department of Transportation
1554 Mail Service Center
Raleigh, NC 27699-1554
(919) 733-4705
(919) 733-2417

2006 Triad PM2 5 Conformity Analysis and Determination Report Nov30.doc	**Name:** 2006 Tr Conforn and Det Report I **Type:** Microso Docume (applica **Encoding:** base64 **Description:** 2006 Tr Conforn and Det Report I

Subject: RE: 12.20.05 Triad PM 2.5 Conformity Process Meeting Summary
Date: Tue, 20 Dec 2005 15:38:07 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Dancausse, Edward'" <Edward.Dancausse@fhwa.dot.gov>,
"'Derry Schmidt \(E-mail\)'" <daschmidt@dot.state.nc.us>,
"'Behshad Norowzi \(E-mail\)'" <bnorowzi@dot.state.nc.us>,
"'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>
CC: "'Wilner, Marcus'" <Marcus.Wilner@fhwa.dot.gov>,
"'Barren, Loretta'" <Loretta.Barren@fhwa.dot.gov>

Thanks Eddie

From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Tuesday, December 20, 2005 2:55 PM
To: Derry Schmidt (E-mail); Behshad Norowzi (E-mail); Upchurch, James (E-mail); Scott Rhine (E-mail)
Cc: Wilner, Marcus; Barren, Loretta
Subject: 12.20.05 Triad PM 2.5 Conformity Process Meeting Summary

Here is a summary of today's meeting:

PART (Scott R.) will collect all public and agency comments. He will distribute the comments to the appropriate parties so that comments can be addressed. Per the schedule all comments need to be addressed to the satisfaction of the transportation partners (EPA/FTA/FHWA/NCDENR) by 1/20/06. Hopefully we can work through the comments without the need for an Interagency Consultation (IC) meeting. Scott will track schedule due dates to make sure that we meet the dates on the conformity process schedule (FHWA-Eddie will also assist with this).

NCDOT (James/Behshad/Derry) will incorporate all agency/public comments in the Conformity Determination Report (CDR) and generate a final draft for the MPOs to adopt and for the federal agencies to review. NCDOT will provide the final draft to PART and PART will distribute the final draft to MPOs (for adoption) and also for the federal agencies to review. The final federal CDR review is scheduled to begin on 2/16/06.

The Triad PM2.5 MPOs/RPO/NCDOT will adopt the CDR's on the following dates:

Winston Salem MPO 1/19/06

Greensboro MPO 1/25/06

High Point MPO 1/24/06

Burlington Graham MPO 1/17/06

NCDOT for donut Davidson County ??????

RPO endorsement (Need to coordinate w/Hanna Cockburn)??????

We also might want to put together draft resolutions for review (by FHWA) prior to adoption to make sure we have the appropriate language.

The attached file below contains the latest conformity process schedule for the Triad PM2.5 area (FYI)

If you have any questions or corrections this document, please let me know.

Look forward to working with you all in the New Year.....

Happy Holidays
Eddie

<<Triad-PM2.5-12-07-05.pdf>>

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

Subject: **Draft PM2.5 MPO Resolution**
Date: Tue, 3 Jan 2006 11:38:53 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'Dancausse, Edward'" <Edward.Dancausse@fhwa.dot.gov>,
"'Upchurch, James \(E-mail\)'" <jhupchurch@dot.state.nc.us>

Please review the attached "initial draft", and provide me your input for editing and distribution to the MPO's for their upcoming TAC meeting(s). I would like to provide this to Winston-Salem by EOB tomorrow - if possible?

To date, I have not received any public comments on the report. I have received confirmation from the MPO's that they have not received any comments either. James, has NCDOT received any public comments?

Thanks for your review. Happy New Year!

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

2006 TAC AQ resolution.doc	**Name:** 2006 TAC AQ resolution.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Subject: **PM 2.5 Conformity Resolution**
Date: Mon, 30 Jan 2006 12:16:32 -0500
From: "McIntyre, Lydia" <Lydia.McIntyre@greensboro-nc.gov>
To: <jhupchurch@dot.state.nc.us>

James,

Here is the resolution.

<<Resolution Adopting Conformity for PM2.5- 1-25-06.pdf>>

Lydia M. McIntyre

Transportation Planning Engineer

Greensboro DOT/MPO

P.O. Box 3136

Greensboro, NC 27402

336-373-3117

==========
Please note that email sent to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

Resolution Adopting Conformity for PM2.5- 1-25-06.pdf	**Name:** Resolution Adopting Conformity for PM2.5- 1-25-06.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64 **Description:** Resolution Adopting Conformity for PM2.5- 1-25-06.pdf **Download Status:** Not downloaded with message

Subject: PM 2.5 Conformity Report- Resolutions
Date: Mon, 30 Jan 2006 10:43:44 -0500
From: "McIntyre, Lydia" <Lydia.McIntyre@greensboro-nc.gov>
To: "Davis, PhD PE, Wayne C. " <wcdavis@dot.state.nc.us>
CC: <jhupchurch@dot.state.nc.us>, "Rhine, Scott " <scottr@partnc.org>

Good Morning All,

Please find attached the resolutions adopting the 2030 LRTP and the 2006-12 MTIP for inclusion the conformity report. Jeff mailed out original copies of the resolution finding the MTIP and LRTP conforming for PM 2.5 to Wayne and Scott on Friday. If you should have any questions, let me know. Thanks!

<<Resolution Adopting 2030 LRTP.pdf>> <<Resolution Adopting 06-12 MTIP.pdf>>

Lydia M. McIntyre

Transportation Planning Engineer

Greensboro DOT/MPO

P.O. Box 3136

Greensboro, NC 27402

336-373-3117

==========
Please note that email sent to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

Resolution Adopting 2030 LRTP.pdf	**Name:** Resolution Adopting 2030 LRTP.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64 **Description:** Resolution Adopting 2030 LRTP.pdf **Download Status:** Not downloaded with message

Resolution Adopting 06-12 MTIP.pdf	**Name:** Resolution Adopting 06-12 MTIP.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64 **Description:** Resolution Adopting 06-12 MTIP.pdf **Download Status:** Not downloaded with message

Subject: Re: MPO Action
Date: Fri, 27 Jan 2006 09:57:05 -0500
From: James Upchurch <jhupchurch@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: Scott Rhine <scottr@partnc.org>

Ok Partner.
j-out

Scott Rhine wrote:

> Thanks James. Let me know if there is anything I can do to assist. Have a great day!
> Scott
>
> ---
>
> **From:** James Upchurch [mailto:jhupchurch@dot.state.nc.us]
> **Sent:** Friday, January 27, 2006 9:11 AM
> **To:** Scott Rhine; Edward.Dancausse@fhwa.dot.gov; bnorowzi@dot.state.nc.us; daschmidt@dot.state.nc.us
> **Subject:** Re: MPO Action
>
> Scott,
> Just about. We need to attach the Davidson County signed approval letter for the portion outside the MPO boundary, attacht the applicable project directly from the TIP that include or match the LRTP, and there two responses to EPA comments regarding calculation and rounding producing our final emissions that Behshad will clarify. The Secretary's signature will probably take the longest time. The complete document shall be delivered to USDOT for their approval to be included before distributing the final to MPO partners.
> We desire to complete the document for USDOT by 1st or 2nd week in February.
> If there any corrections or question about this process please let me know.
> James.
>
> Scott Rhine wrote:
>
> > Hello James. I got your message. All four MPO's have taken action (High Point was on Tuesday - Wayne attended) I have asked the MPO's to send the signed resolution(s) to NCDOT-TPB, and to PART for inclusion into the final document.Are the resolutions the last things needed before final printing? Are you at the point whereby you can forward me the full document in preparation of printing? Thanks

Scott W. RhinePrograms Manager7800 Airport Center Dr., Ste. 102Greensboro, NC 27409336/662-0002336/662-9253 Faxscottr@partnc.orgwww.partnc.org

---

WARNING: This e-mail has been altered by MIMEDefang. Following this paragraph are indications of the actual changes made. For more information about your site's MIMEDefang policy, contact MIMEDefang Administrator <access.denied@nc.gov>. For more information about MIMEDefang

http://www.roaringpenguin.com/mimedefang/enduser.php3

An attachment named 'clip_image002.gif' was converted to 'defang-1.binary'. To recover the file, click on the attachment and Save As 'clip_image002.gif' in order to access it.

WARNING!! IF THE BINARY YOU RECOVER IS A VIRUS, YOU MAY INFECT YOUR SYSTEM.

--

James Upchurch
Transportation Engineer III
North Carolina Department of Transportation
1554 Mail Service Center
Raleigh, NC 27699-1554
(919) 733-4705
(919) 733-2417

--

James Upchurch
Transportation Engineer III
North Carolina Department of Transportation

1554 Mail Service Center
Raleigh, NC 27699-1554
(919) 733-4705
(919) 733-2417

Subject: MPO Action
Date: Thu, 26 Jan 2006 14:17:02 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'James Upchurch'" <jhupchurch@dot.state.nc.us>

Hello James. I got your message. All four MPO's have taken action (High Point was on Tuesday - Wayne attended) I have asked the MPO's to send the signed resolution(s) to NCDOT-TPB, and to PART for inclusion into the final document.

Are the resolutions the last things needed before final printing? Are you at the point whereby you can forward me the full document in preparation of printing? Thanks

Scott W. Rhine
Programs Manager
7800 Airport Center Dr., Ste. 102
Greensboro, NC 27409
336/662-0002
336/662-9253 Fax
scottr@partnc.org
www.partnc.org

WARNING: This e-mail has been altered by MIMEDefang. Following this paragraph are indications of the actual changes made. For more information about your site's MIMEDefang policy, contact MIMEDefang Administrator <access.denied@nc.gov>. For more information about MIMEDefang, see:

http://www.roaringpenguin.com/mimedefang/enduser.php3

An attachment named 'clip_image002.gif' was converted to 'defang-1.binary'. To recover the file, click on the attachment and Save As 'clip_image002.gif' in order to access it.

WARNING!! IF THE BINARY YOU RECOVER IS A VIRUS, YOU MAY INFECT YOUR SYSTEM.

Subject: RE: Responses to Comments
Date: Wed, 25 Jan 2006 08:32:44 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'James Upchurch'" <jhupchurch@dot.state.nc.us>
CC: "'McIntyre, Lydia'" <Lydia.McIntyre@greensboro-nc.gov>, <Edward.Dancausse@fhwa.dot.gov>, <bnorowzi@dot.state.nc.us>, <daschmidt@dot.state.nc.us>

Thanks James. Yes, I am planning to attend the Greensboro TAC; and I will be distributing the comments as an informational item. Thanks for forwarding the comments document. Please let me know if you need anything from me for preparation of the final document.

I have requested the MPO's to provide a signed resolution to the NCDOT - TPB coordinator, and to PART for inclusion of the final document. Thanks again for all your excellent work!
Scott

-----Original Message-----
From: James Upchurch [mailto:jhupchurch@dot.state.nc.us]
Sent: Wednesday, January 25, 2006 7:41 AM
To: Scott Rhine
Cc: McIntyre, Lydia; Edward.Dancausse@fhwa.dot.gov; bnorowzi@dot.state.nc.us; daschmidt@dot.state.nc.us
Subject: Responses to Comments

Scott,
Attached are the responses to agency comments. I don't know if you are planning to attend Greensboro's TAC to make the request for conformity finding. Please speak with Lydia regarding distribution and responses & NCDOT's and PART's request for conformity finding and approval.
if you need anything please call.
Thanks. James.

--
James Upchurch
Transportation Engineer III
North Carolina Department of Transportation
1554 Mail Service Center
Raleigh, NC 27699-1554
(919) 733-4705
(919) 733-2417

Subject: Re: Additional FHWA comments on the Draft Triad PM2.5 CDR
Date: Fri, 20 Jan 2006 08:46:51 -0500
From: James Upchurch <jhupchurch@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>

No problem. We will include TIP projects for the Guilford and Davidson Counties that are in the corresponding MPO areas.
Thanks. James.

"Dancausse, Edward" wrote:

> James,This is good.How about this in terms of the TIP's:Guilford County 06-12 TIP (includes projects from the Greensboro MPO, High Point MPO, and the Burlington Graham MPO)Davidson County 06-12 TIP (includes projects from the Winston Salem Forsyth MPO and the High Point MPO)Donut Portion of Davidson County 06-12 TIP Projects (Piedmont Triad RPO)Thanks again.Eddie**Edward J. Dancausse**
> **Air Quality Specialist**
> **FHWA NC Division**
> **919-856-4330 x112**
> **919-856-4353(fax)**
> **edward.dancausse@fhwa.dot.gov**
> **www.fhwa.dot.gov/ncdiv/**
>
> -----Original Message-----
> **From:** James Upchurch [mailto:jhupchurch@dot.state.nc.us]
> **Sent:** Wednesday, January 18, 2006 3:10 PM
> **To:** Dancausse, Edward
> **Subject:** Re: Additional FHWA comments on the Draft Triad PM2.5 CDR
>
> Attached is the revised project listing.
> James.
>
> "Dancausse, Edward" wrote:
>
> > James/Behshad,
> >
> > I reviewed the updated version (that incorporated the agency comments) of the draft Triad PM2.5 CDR (provided to me yesterday).
> >
> > Most of my comments were addressed. The attached file contains some remaining corrections that need to be made to the document.
> >
> > Just as a reminder. I will need the agency comments (EPA/FHWA/NCDENR) provided to me with your responses. I will forward these to the appropriate agencies and make sure that their comments are addressed. Until this is completed and we get the OK from the agency partners we cannot print the final version of the CDR for Federal Review.

If you have any questions, please let me know.

Eddie

<<FHWA Comments on the Draft Triad PM2.5 CDR_Followup_1.18.06.doc>>

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

ole1.bmp

WARNING: This e-mail has been altered by MIMEDefang. Following this paragraph are indications of the actual changes made. For more information about your site's MIMEDefang policy, contact MIMEDefang Administrator <access.denied@nc.gov>. For more information about MIMED

http://www.roaringpenguin.com/mimedefang/enduser.php3

An attachment named 'ole1.bmp' was converted to 'defang-1.binary'.
To recover the file, click on the attachment and Save As
'ole1.bmp' in order to access it.

WARNING!! IF THE BINARY YOU RECOVER IS A VIRUS, YOU MAY INFECT YOUR SYSTEM.

--

James Upchurch
Transportation Engineer III
North Carolina Department of Transportation
1554 Mail Service Center
Raleigh, NC 27699-1554
(919) 733-4705
(919) 733-2417

--

James Upchurch
Transportation Engineer III
North Carolina Department of Transportation

1554 Mail Service Center
Raleigh, NC 27699-1554
(919) 733-4705
(919) 733-2417

Subject: Re: Additional FHWA comments on the Draft Triad PM2.5 CDR
Date: Wed, 18 Jan 2006 15:10:04 -0500
From: James Upchurch <jhupchurch@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>

Attached is the revised project listing.
James.

"Dancausse, Edward" wrote:

> James/Behshad,
>
> I reviewed the updated version (that incorporated the agency comments) of the draft Triad PM2.5 CDR (provided to me yesterday).
>
> Most of my comments were addressed. The attached file contains some remaining corrections that need to be made to the document.
>
> Just as a reminder. I will need the agency comments (EPA/FHWA/NCDENR) provided to me with your responses. I will forward these to the appropriate agencies and make sure that their comments are addressed. Until this is completed and we get the OK from the agency partners we cannot print the final version of the CDR for Federal Review.
>
> If you have any questions, please let me know.
>
> Eddie
>
> <<FHWA Comments on the Draft Triad PM2.5 CDR_Followup_1.18.06.doc>>
>
> **Edward J. Dancausse**
> **Air Quality Specialist**
> **FHWA NC Division**
> **919-856-4330 x112**
> **919-856-4353(fax)**
> **edward.dancausse@fhwa.dot.gov**
> **www.fhwa.dot.gov/ncdiv/**
>
> ---
>
> WARNING: This e-mail has been altered by MIMEDefang. Following this paragraph are indications of the actual changes made. For more information about your site's MIMEDefang policy, contact MIMEDefang Administrator <access.denied@nc.gov>. For more information about MIMEDefang,

http://www.roaringpenguin.com/mimedefang/enduser.php3

```
An attachment named 'ole1.bmp' was converted to 'defang-1.binary'.
To recover the file, click on the attachment and Save As
'ole1.bmp' in order to access it.

WARNING!! IF THE BINARY YOU RECOVER IS A VIRUS, YOU MAY INFECT YOUR SYSTEM.
```

--

James Upchurch
Transportation Engineer III
North Carolina Department of Transportation
1554 Mail Service Center
Raleigh, NC 27699-1554
(919) 733-4705
(919) 733-2417

Revised MPO LRTP Project List 1-17-06.pdf	**Name:** Revised MPO LRTP Project List 1-17-06.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

Subject: FW: FHWA Comments on the Draft Triad PM 2.5 CDR
Date: Tue, 10 Jan 2006 11:08:04 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'James Upchurch'" <jhupchurch@dot.state.nc.us>

For incorporation into final document. Please contact me if you have any questions.
Scott

From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Tuesday, January 10, 2006 9:22 AM
To: Scott Rhine (E-mail)
Cc: Heather Hildebrandt (E-mail); Amanetta Wood (E-mail); Frate, Doug <FTA>; Wilner, Marcus
Subject: FHWA Comments on the Draft Triad PM 2.5 CDR

Scott,

The attached files below contains my comments. I will send you EPA's comments hopefully before lunch today.

If you have any questions, please let me know.

Thanks
Eddie

<<FHWA Comments on the Draft Triad PM2.5 CDR.doc>>

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

WARNING: This e-mail has been altered by MIMEDefang. Following this
paragraph are indications of the actual changes made. For more
information about your site's MIMEDefang policy, contact
MIMEDefang Administrator <access.denied@nc.gov>. For more information about MIMEDefang, se

http://www.roaringpenguin.com/mimedefang/enduser.php3

An attachment named 'ole1.bmp' was converted to 'defang-1.binary'.
To recover the file, click on the attachment and Save As
'ole1.bmp' in order to access it.

WARNING!! IF THE BINARY YOU RECOVER IS A VIRUS, YOU MAY INFECT YOUR SYSTEM.

FHWA Comments on the Draft Triad PM2.5 CDR.doc	**Name:** FHWA Comments on the Draft Triad PM2.5 CDR.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Subject: FW: EPA's Comments on the Triad Area Draft CDR
Date: Tue, 10 Jan 2006 11:08:57 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'James Upchurch'" <jhupchurch@dot.state.nc.us>

For incorporation into final document. Please contact me if you have any questions. Thanks
Scott

-----Original Message-----
From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Tuesday, January 10, 2006 9:47 AM
To: Scott Rhine (E-mail)
Cc: Heather Hildebrandt (E-mail); Amanetta Wood (E-mail); Frate, Doug <FTA>; Behshad Norowzi (E-mail); Barren, Loretta; Wilner, Marcus
Subject: EPA's Comments on the Triad Area Draft CDR

Scott,

Provided below are EPA's comments on the Draft Triad PM 2.5 CDR. You should now have all agency comments: EPA, FHWA, NCDENR, and FTA (FTA had no comments).

The next step is that all comments will need to be addressed in writing. Once the comments have been addressed, provide them to me and I will forward the responses and follow up with the agencies (to make sure they are satisfied with the responses to their comments). We need to make sure that the agency comments are adequately addressed before we can complete the final version of the Triad PM 2.5 CDR.

Based on the schedule the final report is to be completed by 1/30/06.

The if the TAC needs to take an action on the CDR prior to addressing the agency comments make sure that the resolution contains the following language: "BE IT FURTHER RESOLVED that this conformity finding is made contingent pending all comments on the draft conformity determination report are addressed." The resolution that I reviewed for you previously contains this statement. So I think you are OK with this.

If you have any questions, please let me know.

Eddie

Edward J. Dancausse
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/

-----Original Message-----
From: Wood.Amanetta@epamail.epa.gov
[mailto:Wood.Amanetta@epamail.epa.gov]
Sent: Tuesday, January 10, 2006 9:25 AM
To: Dancausse, Edward; Benjamin.Lynorae@epamail.epa.gov; Lorretta.Barren@fhwa.dot.gov
Cc: Wood.Amanetta@epamail.epa.gov
Subject: Triad Area Draft CDR

Hello All,

I am sending this email on behalf of Region 4 and in response to your request for our review and comment on the draft of the Conformity Determination and the 2030 Long Range Transportation Plans for the Triad Area. We have reviewed the documents and have a few comments or suggestions for revisions.

In the Conformity Determination Report the first comment is in regards to public involvement. For public Involvement I suggest that proof (i.e. a copy of an announcement issued in a newspaper) be included for the Triad conformity determination.

The second comment is a statement is needed saying that "all regionally significant projects regardless of funding source were included in the analysis." We suggest that this statement be placed in section 3.4.

Corrections:

. In Table 15, Davidson County Emissions Comparison Summary, under the 2020 County total for PM2.5 the correct value should be 87 not 88. Also in this table, the 2030 County total for NOx should be 1729 not 1728.

. In Table 16, Guilford County Emissions Comparison Summary, under the 2030 Comparison total for NOx the total should be 5064 not 5063.

Emissions:

. On pg. 134, the M 49 warning values should be 1.0

. On pg. 134 does the data file: C:\2005PM\GUILFORD\IDLE.D reflect the fact that OBD is the only test that will be utilized in 2006?

In regards to the LRTP projects section, we also have some comments regarding several of the projects.

. Please reorganize the Burlington-Graham MPO LRTP, the Greensboro Urban Area MPO LRTP, the High-Point Urban Area MPO LRTP, and the Winston-Salem Urban Area MPO LRTP. It appears as though there are several pages missing.

. In the Non-Regionally Significant Projects for the Guilford and Davidson County Areas (Federal) table for the 2005-2014 Greensboro Urban Area MPO section the existing laneage was missing for the following projects: U-4006,Turner-Smith road extension to Eckerson Road, Bryan Boulevard extension, Hornaday road to Chimney Rock Road, Reedy Fork Service Road, and Turner Smith Road Extension.

. In the Non-Regionally Significant Projects for the Guilford and Davidson County Areas (Federal) table for the 2021-2030 Winston-Salem Urban Area MPO section the mileage value is listed as the existing laneage.

. In the Regionally Significant Projects (Federal and Non Federal) for the Guilford and Davidson County Areas table for the 2005-2014 Greensboro Urban Area MPO section the following projects do not have existing laneage listed: u-2524, R-2413,U-2913, and U-2525.

I'm looking forward to reviewing the TIP and the final conformity document when they come in.

Amanetta Wood

Amanetta Wood, Environmental Scientist
U.S. Environmental Protection Agency, Region 4
Air, Pesticides and Toxics Management Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Email: wood.amanetta@epa.gov
Phone: (404) 562-9025
Fax: (404) 562-9019

Subject: FW: PM 2.5 Report Comments
Date: Mon, 9 Jan 2006 14:29:13 -0500
From: "Scott Rhine" <scottr@partnc.org>
To: "'James Upchurch'" <jhupchurch@dot.state.nc.us>

FYI - to be incorporated where applicable. Thanks
Scott

From: McIntyre, Lydia [mailto:Lydia.McIntyre@greensboro-nc.gov]
Sent: Monday, January 09, 2006 2:21 PM
To: Scott Rhine
Subject: PM 2.5 Report Comments

Good Morning Scott,

Thanks again for putting the report together. The report looks good and it was a tremendous help. I did review and had the following comments.

Page 4: Typo 'form' → 'from'

Page 5: 3rd paragraph, 'These LRTPs have three analysis years: 2010, 2020, and 2030.' → I believe the analysis year should be 2014 instead of 2010. It looks like 2010 was use for the air quality analysis, but 2014 was used for the LRTP. I am not sure, but maybe there should be a note to this effect.

Page 7: Some of the page numbers were off in Table 4 → #4,pg. 13(12), #5,pg. 13(12), #6,pg. 27(28), #9,pg. 24 (22), #10,pg.26(23), #11,pg.28(27), and #13,pg.29(28).

Page 15: Similar to page 5, 3.4- has sentence midway down 'The base network (2002) and the three future networks (2010, 2020, and 2030) used for the conformity determination are the same as the network used for the 2030 Long Range Transportation Plans.' → The network used for air quality analysis was 2010, but 2014 in LRTP.

Page 15: Last sentence on page → Did not know if the 'and' between County and within should be deleted.

Page 17: 3.8, last sentence in paragraph → should it be (2004, 2014, 2020, and 2030)

Appendix: The LRTP Horizon spreadsheets were out of order. Page 10 did is not updated with Market Street removed as exempt.

I attached our public involvement policy and will for the resolutions together. But I was not sure what the Triad Region Transportation Implementation Plan resolution is. Let me know if you have any questions. Thanks

<<Public Involvement Plan 01-31-01.doc>>

Lydia M. McIntyre

Transportation Planning Engineer

Greensboro DOT/MPO

P.O. Box 3136

Greensboro, NC 27402

336-373-3117

==========
Please note that email sent to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

Public Involvement Plan 01-31-01.doc	**Name:** Public Involvement Plan 01-31-01.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Subject: Re: FW: DAQ comments on Triad Conformity Analysis
Date: Thu, 05 Jan 2006 08:23:55 -0500
From: James Upchurch <jhupchurch@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: Scott Rhine <scottr@partnc.org>, daschmidt@dot.state.nc.us
CC: Edward.Dancausse@fhwa.dot.gov, bnorowzi@dot.state.nc.us

Scott,
Heather had already sent DAQ's comments and It makes sense for us to continue incorporating comments and responses into the final report. If there are any answers to questions/comments that would require your assistance, we would greatly appreciated it. Always feel free to provide feedback and suggestions during the completion of the final document.
james.

Scott Rhine wrote:

James give me a call to discuss incorporation of comments from all agencies, and preparation of final document. I do not have a WORD version - only pdf. Looking forward to hearing from you!
Scott
Happy New Year!

From: Dancausse, Edward [mailto:Edward.Dancausse@fhwa.dot.gov]
Sent: Wednesday, January 04, 2006 4:04 PM
To: Scott Rhine (E-mail)
Cc: Heather Hildebrandt (E-mail)
Subject: FW: DAQ comments on Triad Conformity Analysis

Scott,The attached file below contains NCDENR's comments so we can start the process of addressing the comments. Hopefully I will have FHWA's comments completed by this Friday. EPA is working on their comments and they are due to us by 1.10.06. FTA had no comments.If you have any questions, please let me know.Eddie **Edward J. Dancausse**
Air Quality Specialist
FHWA NC Division
919-856-4330 x112
919-856-4353(fax)
edward.dancausse@fhwa.dot.gov
www.fhwa.dot.gov/ncdiv/
-----Original Message-----
From: Heather.Hildebrandt [mailto:Heather.Hildebrandt@ncmail.net]
Sent: Wednesday, January 04, 2006 10:26 AM
To: jhupchurch@dot.state.nc.us; Dancausse, Edward
Subject: DAQ comments on Triad Conformity Analysis

Please see my comments on the attached file.

Heather J. Hildebrandt

Environmental Engineer
NC Division of Air Quality
phone: 919-733-1498
fax: 919-733-1812

* *
E-mail correspondence to and from this address may
be subject to the North Carolina Public Records Law
and may be disclosed to third parties.
* *

jhupchurch@dot.state.nc.us wrote:

> Hello,
>
> This is an automated message to notify you that James Upchurch has sent you a message using the DOT File Transfer System.
>
> Please follow this link to retrieve the message:
>
> https://fts.dot.state.nc.us/default.aspx
>
> Since this is the first time that you have used the DOT File Transfer System, you will need to login and provide your personal contact information. Your initial login information is:
>
> User Name: Heather.Hildebrandt@ncmail.net
> Password: 429Heather.Hildebrandt@ncmail.net
>
> After logging in, please change your password.
>
> If you have any questions, please send email to James Upchurch: jhupchurch@dot.state.nc.us

--

James Upchurch
Transportation Engineer III
North Carolina Department of Transportation
1554 Mail Service Center
Raleigh, NC 27699-1554
(919) 733-4705
(919) 733-2417

Subject: DAQ comments on Triad Conformity Analysis
Date: Wed, 04 Jan 2006 10:25:42 -0500
From: "Heather.Hildebrandt" <Heather.Hildebrandt@ncmail.net>
To: jhupchurch@dot.state.nc.us, "Dancausse, Edward" <Edward.Dancausse@fhwa.dot.gov>

Please see my comments on the attached file.

Heather J. Hildebrandt
Environmental Engineer
NC Division of Air Quality
phone: 919-733-1498
fax: 919-733-1812

* *
E-mail correspondence to and from this address may
be subject to the North Carolina Public Records Law
and may be disclosed to third parties.
* *

jhupchurch@dot.state.nc.us wrote:

> Hello,
>
> This is an automated message to notify you that James Upchurch has sent you a message using the DOT File Transfer System.
>
> Please follow this link to retrieve the message:
>
> https://fts.dot.state.nc.us/default.aspx
>
> Since this is the first time that you have used the DOT File Transfer System, you will need to login and provide your personal contact information. Your initial login information is:
>
> User Name: Heather.Hildebrandt@ncmail.net
> Password: 429Heather.Hildebrandt@ncmail.net
>
> After logging in, please change your password.
>
> If you have any questions, please send email to James Upchurch: jhupchurch@dot.state.nc.us

DAQ Comments Triad Conformity.doc	**Name:** DAQ Comments Triad Conformity.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64 **Download Status:** Not downloaded with message

Subject: **Response to EPA comments**
Date: Tue, 31 Jan 2006 17:49:10 -0500
From: Behshad Norowzi <bnorowzi@dot.state.nc.us>
Organization: North Carolina Department of Transportation
To: James Upchurch <jhupchurch@dot.state.nc.us>
CC: Eddie Dancausse <Edward.Dancausse@fhwa.dot.gov>

```
Hi James,
Please see the attached file. I added response to four EPA
comments.
Thanks,
Behshad
```

Responses to Comments Triad PM 25 Conformity2.doc	**Name:** Responses to Comments Triad PM 25 Conformity2.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Appendix L: Conformity Determination Resolutions

RESOLUTION FINDING THE GREENSBORO URBAN AREA 2030 LONG RANGE TRANSPORTATION PLAN AND THE FY 2006-2012 METROPOLITAN TRANSPORTATION IMPROVEMENT PROGRAM IN CONFORMANCE WITH THE NORTH CAROLINA STATE IMPLEMENTATION PLAN (SIP), OR LESS THAN BASELINE EMISSIONS WHERE NO SIP BUDGETS HAVE BEEN FOUND ADEQUATE OR APPROVED

A motion was made by TAC Member Kirk Perkins and seconded by TAC Member Keith Holliday for the adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, the Transportation Advisory Committee has found the Metropolitan Planning Organization is conducting transportation planning in a continuous, cooperative, and comprehensive (3-C) manner in accordance with 23 U.S.C. and 49 U.S.C. 1607; AND

WHEREAS, the Greensboro Urban Area 2030 Long Range Transportation Plan (LRTP) meets the planning requirements of 23 CFR Part 450.322; AND

WHEREAS, the Greensboro Urban Area 2006-2012 Metropolitan Transportation Improvement Program is a subset of the currently conforming 2030 Long Range Transportation Plan; AND

WHEREAS, the United States Environmental Protections Agency (EPA) designated Davidson, and Guilford Counties as non-attainment areas for PM2.5 on April 5, 2005; AND

WHEREAS, the conformity analysis of the Greensboro Urban Area 2030 LRTP is based on the most recent estimates of population, employment, travel and congestion; AND

WHEREAS, the projects in the Greensboro Urban Area 2030 LRTP and the FY 2006-2012 MTIP, have been financially constrained; AND

WHEREAS, there are no transportation control measures in the North Carolina State Implementation Plan (SIP) that pertain to the Greensboro Urban Area; AND

WHEREAS, those projects and programs included in the Greensboro Urban Area 2030 LRTP contribute to annual emissions reductions using the most recent vehicle emissions model to prepare the quantitative emissions analysis dated December 15, 2005; AND

WHEREAS, the Transportation Advisory Committee has provided for a 30-day public review and comment period for the proposed conformity determination and analysis.

NOW, THEREFORE, BE IT RESOLVED that the Greensboro Urban Area Transportation Advisory Committee finds that the Greensboro Urban Area 2030 LRTP and the FY 2006-2012 MTIP, conforms to the purposes of the emissions budget, or is less than baseline emissions where no SIP budgets have been found adequate or approved, in accordance with the Clean Air Act As Amended (CAAA), and the Safe, Accountable, Flexible, Efficient Transportation Equity Act-A Legacy for Users (SAFETEA-LU).

BE IT FURTHER RESOLVED that this conformity finding is made contingent upon determination by all comments on the draft conformity determination report addressed.

Adopted on this the 25th day of January, 2006.

****

I, Sandy Carmany, TAC Chair
(Name of Certifying Official) (Title of Certifying Official)

do hereby certify that the above is a true and correct copy of an excerpt from the minutes of a meeting of the Greensboro Urban Area TAC duly held on this, the 25th day of January, 2006.

Sandy Carmany
Chair, Transportation Advisory Committee

****

Subscribed and sworn to me this, the 25th day of January, 2006.

Margie L Chrismon
Notary Public

My commission expires 6-23-07.

OFFICIAL SEAL
MARGIE L. CHRISMON
Notary Public - Guilford County
State of North Carolina
My Commission Expires

High Point

Archdale

Jamestown

Thomasville

Trinity

Davidson County

Guilford County

Randolph County

RESOLUTION
FINDING THE HIGH POINT URBAN AREA 2030 LONG RANGE TRANSPORTATION PLAN AND THE FY 2006-2012 METROPOLITAN TRANSPORTATION IMPROVEMENT PROGRAM IN CONFORMANCE WITH THE NORTH CAROLINA STATE IMPLEMENTATION PLAN (SIP) OR LESS THAN BASELINE EMISSIONS WHERE NO SIP BUDGETS HAVE BEEN FOUND ADEQUATE OR APPROVED

A motion was made by TAC member Marie Culbreth and seconded by TAC member Charles Dowdy for the adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, the Transportation Advisory Committee (TAC) is the duly recognized transportation decision making body for the 3-C transportation planning process in the High Point Urban Area Metropolitan Planning Organization (MPO); and

WHEREAS, the High Point Urban Area 2030 Long Range Transportation Plan (LRTP) meets the planning requirements of 23 CFR Part 450.322; and

WHEREAS, the 2006–2012 Metropolitan Transportation Improvement Program (MTIP) is a subset of the High Point Urban Area 2030 LRTP; and

WHEREAS, the United States Environmental Protections Agency (EPA) designated Davidson, and Guilford Counties as non-attainment areas for PM2.5 on April 5, 2005; and

WHEREAS, the conformity analysis of the High Point Urban Area 2030 LRTP is based on the most recent estimates of population, employment, travel and congestion; and

WHEREAS, the projects in the High Point Urban Area 2030 LRTP and the FY 2006-2012 MTIP, have been financially constrained; and

WHEREAS, there are no transportation control measures in the North Carolina State Implementation Plan (SIP) that pertain to the High Point Urban Area; and

WHEREAS, those projects and programs included in the High Point Urban Area 2030 LRTP contribute to annual emissions reductions using the most recent vehicle emissions model to prepare the quantitative emissions analysis dated December 15, 2005.

NOW, THEREFORE, BE IT RESOLVED that the High Point Urban Area Transportation Advisory Committee has made a finding that the High Point Urban Area 2030 LRTP and the FY 2006-2012 MTIP , conforms to the purposes of the emissions budget or less than baseline emissions where no SIP budgets have been found adequate or approved in accordance with the Clean Air Act As Amended (CAAA), the Transportation

P.O. Box 230, High Point, N.C. 27261
Telephone (336) 883-3225 Fax (336) 883-8568 TDD (336) 883-8517

Equity Act for the 21st Century (TEA-21) and the Safe, Accountable, Flexible, Efficient Transportation Equity Act-A Legacy for Users (SAFETEA-LU).

BE IT FURTHER RESOLVED that this conformity finding is made contingent pending all comments on the draft conformity determination report are addressed.

Adopted on this the 24th day of January, 2006.

Larry Warlick, Chairman
Transportation Advisory Committee

RESOLUTION
FINDING THE BURLINGTON / GRAHAM URBAN AREA 2030 LONG RANGE TRANSPORTATION PLAN AND THE FY 2006-2012 METROPOLITAN TRANSPORTATION IMPROVEMENT PROGRAM IN CONFORMANCE WITH THE NORTH CAROLINA STATE IMPLEMENTATION PLAN (SIP) OR LESS THAN BASELINE EMISSIONS WHERE NO SIP BUDGETS HAVE BEEN FOUND ADEQUATE OR APPROVED

A motion was made by TAC member Ed Hooks and seconded by TAC member Steve Ross for the adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, the Transportation Advisory Committee (TAC) is the duly recognized transportation decision making body for the 3-C transportation planning process in the Winston-Salem Urban Area Metropolitan Planning Organization (MPO); and

WHEREAS, the Burlington / Graham Urban Area 2030 Long Range Transportation Plan (LRTP) meets the planning requirements of 23 CFR Part 450.322; and

WHEREAS, the 2006–2012 Metropolitan Transportation Improvement Program (MTIP) is a subset of the Burlington / Graham Urban Area 2030 LRTP; and

WHEREAS, the United States Environmental Protections Agency (EPA) designated Davidson, and Guilford Counties as non-attainment areas for PM2.5 on April 5, 2005; and

WHEREAS, the conformity analysis of the Burlington / Graham Urban Area 2030 LRTP is based on the most recent estimates of population, employment, travel and congestion; and

WHEREAS, the projects in the Burlington / Graham Urban Area 2030 LRTP and the FY 2006-2012 MTIP, have been financially constrained; and

WHEREAS, there are no transportation control measures in the North Carolina State Implementation Plan (SIP) that pertain to the Burlington / Graham Urban Area; and

WHEREAS, those projects and programs included in the Burlington / Graham Urban Area 2030 LRTP contribute to annual emissions reductions using the most recent vehicle emissions model to prepare the quantitative emissions analysis dated December 15, 2005.

NOW, THEREFORE, BE IT RESOLVED that the Burlington / Graham Urban Area Transportation Advisory Committee has made a finding that the Burlington / Graham Urban Area 2030 LRTP and the FY 2006-2012 MTIP, conforms to the purposes of the emissions budget or less than baseline emissions where no SIP budgets have been found adequate or approved in accordance with the Clean Air Act As Amended (CAAA), the Transportation Equity Act for the 21st Century (TEA-21) and the Safe, Accountable, Flexible, Efficient Transportation Equity Act-A Legacy for Users (SAFETEA-LU).

BE IT FURTHER RESOLVED that this conformity finding is made contingent pending all comments on the draft conformity determination report are addressed.

Adopted on this the 17th day of January, 2006.

Leonard Williams, Chairman
Transportation Advisory Committee

Mike Nunn, Secretary
Transportation Advisory Committee

RESOLUTION
FINDING THE WINSTON-SALEM URBAN AREA 2030 LONG RANGE TRANSPORTATION PLAN AND THE FY 2006-2012 METROPOLITAN TRANSPORTATION IMPROVEMENT PROGRAM IN CONFORMANCE WITH THE NORTH CAROLINA STATE IMPLEMENTATION PLAN (SIP) OR LESS THAN BASELINE EMISSIONS WHERE NO SIP BUDGETS HAVE BEEN FOUND ADEQUATE OR APPROVED

A motion was made by TAC member Ed Brewer and seconded by TAC member Curtis Swisher for the adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, the Transportation Advisory Committee (TAC) is the duly recognized transportation decision making body for the 3-C transportation planning process in the Winston-Salem Urban Area Metropolitan Planning Organization (MPO); and

WHEREAS, the Winston-Salem Urban Area 2030 Long Range Transportation Plan (LRTP) meets the planning requirements of 23 CFR Part 450.322; and

WHEREAS, the 2006–2012 Metropolitan Transportation Improvement Program (MTIP) is a subset of the Winston-Salem Urban Area 2030 LRTP; and

WHEREAS, the United States Environmental Protections Agency (EPA) designated Davidson and Guilford Counties as non-attainment areas for PM 2.5 on April 5, 2005; and

WHEREAS, the conformity analysis of the Winston-Salem Urban Area 2030 LRTP is based on the most recent estimates of population, employment, travel and congestion; and

WHEREAS, the projects in the Winston-Salem Urban Area 2030 LRTP and the FY 2006-2012 MTIP have been financially constrained; and

WHEREAS, there are no transportation control measures in the North Carolina State Implementation Plan (SIP) that pertain to the Winston-Salem Urban Area; and

WHEREAS, those projects and programs included in the Winston-Salem Urban Area 2030 LRTP contribute to annual emissions reductions using the most recent vehicle emissions model to prepare the quantitative emissions analysis dated December 15, 2005.

NOW, THEREFORE, BE IT RESOLVED that the Winston-Salem Urban Area Transportation Advisory Committee has made a finding that the Winston-Salem Urban Area 2030 LRTP and the FY 2006-2012 MTIP conforms to the purposes of the emissions budget or less than baseline emissions where no SIP budgets have been found adequate or approved in accordance with the Clean Air Act As Amended (CAAA), the Transportation Equity Act for the 21st Century (TEA-21) and the Safe, Accountable, Flexible, Efficient Transportation Equity Act-A Legacy for Users (SAFETEA-LU).

BE IT FURTHER RESOLVED that this conformity finding is made contingent pending all comments on the draft conformity determination report are addressed.

Adopted on this the 19th day of January, 2006.

Larry T. Williams, Chairman
Transportation Advisory Committee

Margaret C. Bessette, Secretary
Transportation Advisory Committee

Appendix M: LRTP & MTIP Adoption Resolutions

RESOLUTION
ADOPTING THE
FISCAL YEAR 2006 - 2012
METROPOLITAN TRANSPORTATION IMPROVEMENT PROGRAM
FOR THE WINSTON-SALEM URBAN AREA

A motion was made by TAC member Willa Lash and seconded by TAC member Fred Terry for adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, the Winston-Salem Urban Area Transportation Advisory Committee (TAC) has found that the Metropolitan Planning Organization (MPO) is conducting transportation planning in a continuous, cooperative, and comprehensive manner in accordance with 23 U.S.C. 134 and 49 U.S.C. 1607; and

WHEREAS, the Transportation Equity Act for the 21st Century (TEA-21) requires all States and MPOs to develop and approve a Transportation Improvement Program (TIP) at least once every two years; and

WHEREAS, members of the MPO reviewed the draft Fiscal Year 2006-2012 State Transportation Improvement Program (STIP) and discussed proposed adjustments to the document in a meeting with NCDOT on March 4, 2004; and

WHEREAS, the North Carolina Department of Transportation (NCDOT) developed a final draft STIP for Fiscal Years 2006–2012 in April 2005; and

WHEREAS, the TAC has found that the draft Fiscal Year 2006-2012 Winston-Salem Urban Area Metropolitan Transportation Improvement Program (MTIP) conforms to the purpose of the North Carolina State Implementation Plan (SIP) for maintaining the National Ambient Air Quality Standards (NAAQS) in accordance with 40 CFR 51 and 93; and

WHEREAS, the TAC has found the MTIP to be in full compliance with Title VI of the Civil Rights Act of 1964 and the Title VI Assurance executed by each State under 23 U.S.C. 324 and 29 U.S.C 794; and

WHEREAS, the TAC has considered how the MTIP will affect the elderly and disabled per the provisions of the Americans with Disabilities Act of 1990 (Pub. L. 101-336, 104 Stat. 327, as amended) and the United States Department of Transportation (USDOT) implementing regulations; and

WHEREAS, the MTIP is a subset of the currently conforming Winston-Salem Urban Area 2030 Long Range Transportation Plan (LRTP) approved by USDOT on May 28, 2005, and as amended on July 21st, 2005; and

WHEREAS, the general public was given an opportunity to review and comment on the draft MTIP during a public meeting held on June 30, 2005, and during a thirty (30) day public review period with the process concluding on July 18, 2005; and

WHEREAS, the MTIP, for years one through three, will serve as the project selection document for transportation projects within the Winston-Salem Urban Area boundary, and the NCDOT may move projects and phases of projects without additional programming or project selection approval by the MPO within that three-year period, providing that the air quality conformity and financial constraint criteria are still met.

NOW, THEREFORE BE IT RESOLVED that the Winston-Salem Urban Area TAC adopts the Fiscal Year 2006-2012 Metropolitan Transportation Improvement Program (MTIP), for the Winston-Salem Urban Area MPO.

Adopted on this the 21st day of July, 2005.

Larry T. Williams

Larry Williams, Chairman
Transportation Advisory Committee

Margaret C. Bessette

Margaret C. Bessette, Secretary
Transportation Advisory Committee

RESOLUTION
APPROVING THE 2005 AMENDMENTS OF THE
WINSTON-SALEM URBAN AREA
2030 LONG RANGE TRANSPORTATION PLAN

A motion was made by TAC member Ed Brewer and seconded by TAC member Curtis Swisher for approval of the following resolution, and upon being put to a vote was duly approved.

WHEREAS, the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) and the Transportation Equity Act for the 21st Century (TEA-21) require all Metropolitan Planning Organizations (MPOs) to develop and maintain a long range transportation plan (LRTP); and

WHEREAS, the LRTP must address all modes of transportation in an urban area, have a horizon year of at least 20 years, and be financially constrained; and

WHEREAS, the LRTP for an urban area must be found to be in conformance with the State Implementation Plan (SIP) for air quality; and

WHEREAS, the air quality conformity analysis report for the Urban Area is based on the updated projected street and highway network for the year 2030; and

WHEREAS, the Winston-Salem Urban Area 2030 LRTP was adopted by the Transportation Advisory Committee (TAC) on March 31, 2005; and

WHEREAS, the 2030 LRTP was approved by the Federal Highway Administration (FHWA) on May 28, 2005; and

WHEREAS, the draft Fiscal Year 2006-2012 State Transportation Improvement Program (STIP) shows the schedule for the Northern Beltway and other roads as different than the 2030 LRTP; and

WHEREAS, amendments to the 2030 LRTP are necessary to have the Fiscal Year 2006-2012 MTIP remain a subset of the 2030 LRTP; and

WHEREAS, the air quality conformity analysis report and the amendments to the 2030 LRTP for the Urban Area were reviewed by the general public in accordance to the TAC public review policy for transportation plans.

NOW, THEREFORE, BE IT RESOLVED that the Winston-Salem Urban Area Transportation Advisory Committee does hereby approve the 2005 amendments of the Winston-Salem Urban Area 2030 Long Range Transportation Plan.

Adopted on this the 21st day of July, 2005.

Larry D. Williams

Larry Williams, Chairman
Transportation Advisory Committee

Margaret C Bessette

Margaret C. Bessette, Secretary
Transportation Advisory Committee

RESOLUTION ADOPTING THE HIGH POINT URBAN AREA 2030 LONG RANGE TRANSPORTATION PLAN

A motion was made by MARIE ZULBRETA and seconded by BILLY JOE KEPLEY for the adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, the High Point Urban Area Metropolitan Planning Organization (MPO) is required by the Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991 and the Transportation Efficiency Act for the 21st Century (TEA-21) to complete and maintain a Long Range Transportation Plan (LRTP); and

WHEREAS, the Long Range Transportation Plan must address all modes of transportation an urban area, have a horizon year of at least 20 years, and be fiscally constrained; and

WHEREAS, the High Point Urban Area Metropolitan Planning Organization has found the 2030 Long Range Transportation Plan to be in conformance with the North Carolina State Implementation Plan for maintenance of the National Ambient Air Quality Standards; and

WHEREAS, the Transportation Advisory Committee has provided for a 30-day public comment period for the Long Range Transportation Plan; and

WHEREAS, the Transportation Advisory Committee is the duly recognized transportation decision making body for the High Point Urban Area MPO, as required by 23 CFR Part 134; and

WHEREAS, the Transportation Advisory Committee of the MPO feels it to be in the best interests of the MPO to approve the LRTP.

NOW THEREFORE, BE IT RESOLVED that the 2030 High Point Urban Area Long Range Transportation Plan be adopted by the Transportation Advisory Committee of the High Point Urban Area Metropolitan Planning Organization.

****

I do hereby certify that the above is a true and correct copy of excerpts from the minutes of the Transportation Advisory Committee meeting of the said MPO, duly held on the 24th day of August, 2004.

Larry Warlick, Chair
Transportation Advisory Committee

****

Subscribed and sworn to me this 24th day of August, 2004.

Diane W. Nance
Notary Public

HPMPO
High Point Urban Area Metropolitan Planning Organization

RESOLUTION ADOPTING THE FISCAL YEAR 2006-2012 METROPOLITAN TRANSPORTATION IMPROVEMENT PROGRAM FOR THE HIGH POINT URBAN AREA

High Point

A motion was made by MARIE CULBRETH and seconded by DARRELL FRYE for adoption of the following resolution, and upon being put to a vote was duly adopted.

Archdale

WHEREAS, the High Point Urban Area Transportation Advisory Committee (TAC) has found that the Metropolitan Planning Organization (MPO) is conducting transportation planning in a continuous, cooperative, and comprehensive manner in accordance with 23 U.S.C. 134 and 49 U.S.C. 1607; and

Jamestown

WHEREAS, the Transportation Equity Act for the 21st Century (TEA-21) requires all States and MPOs to develop and approve a Transportation Improvement Program (TIP) at least once every two years; and

Thomasville

WHEREAS, the North Carolina Department of Transportation (NCDOT) developed a draft State Transportation Improvement Program (STIP) for Fiscal Years 2006-2012 in April of 2005; and

Trinity

WHEREAS, the Transportation Advisory Committee has found that the Metropolitan Transportation Improvement Program conforms to the purpose of the North Carolina State Implementation Plan for maintaining the National Ambient Air Quality Standards in accordance with 40 CFR 51 & 93; and

Davidson County

WHEREAS, the Transportation Advisory Committee has found the Metropolitan Transportation Improvement Program to be in full compliance with Title VI of the Civil Rights Act of 1964 and the Title VI Assurance executed by each State under 23 U.S.C. 324 and 29 U.S.C. 794; and

Guilford County

WHEREAS, the Transportation Advisory Committee has considered how the Metropolitan Transportation Improvement Program will affect the elderly and the disabled per the provisions of the Americans With Disabilities Act of 1990 (Pub. L. 101-336, 104 Stat. 327, as amended) and the United States Department of Transportation (USDOT) implementing regulations; and

Randolph County

WHEREAS, the High Point Urban Area Metropolitan Transportation Improvement Program is a subset of the High Point Urban Area Long Range Transportation Plan; and

WHEREAS, the Long Range Transportation Plan has a planning horizon year of 2030, and meets all the requirements for an adequate Transportation Plan; and

P.O. Box 230, High Point, N.C. 27261
Telephone (336) 883-3225 Fax (336) 883-8568 TDD (336) 883-8517

WHEREAS, the Transportation Advisory Committee has provided for a 30-day public comment period for the draft Metropolitan Transportation Improvement Program; and

WHEREAS, this approval is contingent on the High Point Urban Area Metropolitan Planning Organization receiving its full proportional share of CMAQ funding in the amount of $4.6 million over the next seven years; and

WHEREAS, the Metropolitan Transportation Improvement Program, for years one through three, will serve as the project selection document for transportation projects within the High Point Urban Area Metropolitan Area Boundary, and the NCDOT may move projects and phases of projects without additional programming or project selection approval by the MPO within that three-year period, providing that air quality conformity and financial constraint criteria are still met.

NOW THEREFORE, BE IT RESOLVED, that the High Point Urban Area Transportation Advisory Committee adopts the FY 2006-2012 Metropolitan Transportation Improvement Program for the High Point Urban Area Metropolitan Planning Organization on this, the 23rd day of August, 2005.

Larry Warlick

Larry Warlick, Chair
Transportation Advisory Committee

Phil Wylie

Phil Wylie, Chair
Technical Coordinating Committee

RESOLUTION ADOPTING THE GREENSBORO URBAN AREA
2030 LONG RANGE TRANSPORTATION PLAN

A motion was made by TAC Member Bob Landreth and seconded by TAC Member Don Vaughan for the adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) and the Transportation Equity Act for the 21st Century (TEA-21) require all Metropolitan Planning Organizations (MPO's) to develop and maintain a Long Range Transportation Plan; and

WHEREAS, the Long Range Transportation Plan must address all modes of transportation in an urban area, have a horizon year of at least 20 years, and be fiscally constrained; and

WHEREAS, the Greensboro Urban Area Thoroughfare Plan is hereby incorporated as a part of the Long Range Transportation Plan; and

WHEREAS, the socio-economic data inputs for the Piedmont Triad Regional Travel Demand Model, upon which forecasts of future vehicular travel and air pollutant emissions are based, have been updated to reflect the most recent planning assumptions; and

WHEREAS, the Greensboro Urban Area Metropolitan Planning Organization has found the 2030 Long Range Transportation Plan to be in conformance with the North Carolina State Implementation Plan for maintenance of the National Ambient Air Quality Standards; and

WHEREAS, the Transportation Advisory Committee has provided for a 30-day public comment period for the proposed Long Range Transportation Plan; and

WHEREAS, the Transportation Advisory Committee has solicited public and private transportation provider comments; and

WHEREAS, the Transportation Advisory Committee has found the proposed Long Range Transportation Plan to be in full compliance with Title VI of the Civil Rights Act; and

WHEREAS, the Transportation Advisory Committee has considered how the proposed Long Range Transportation Plan will affect Disadvantaged Business Enterprises; and

WHEREAS, the Transportation Advisory Committee has considered how the proposed Long Range Transportation Plan will affect the elderly and the disabled.

NOW THEREFORE, be it resolved by the Greensboro Urban Area Transportation Advisory Committee, that the 2030 Long Range Transportation Plan, dated August 25, 2004, be adopted for the Greensboro Urban Area Metropolitan Planning Organization on this the 25th day of August, 2004.

****

I, Sandy Carmany, TAC Chair

(Name of Certifying Official) *(Title of Certifying Official)*

do hereby certify that the above is a true and correct copy of an excerpt from the minutes of a meeting of the Greensboro Urban Area TAC duly held on this, the 25th day of August, 2004.

Sandy Carmany

Chair, Transportation Advisory Committee

****

Subscribed and sworn to me this, the 25th day of August, 2004.

Marcel A. Edwards

Notary Public

My commission expires 11/9/2008.

OFFICIAL SEAL
MARCEL A. EDWARDS
Notary Public - North Carolina
GUILFORD COUNTY
My Commission Expires
11/9/2008

RESOLUTION ADOPTING THE FINAL GREENSBORO URBAN AREA METROPOLITAN TRANSPORTATION IMPROVEMENT PROGRAM FY 2006 - FY 2012

A motion was made by TAC Member Robbie Perkins and seconded by TAC Member Keith Holliday for the adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, the Transportation Advisory Committee has found the Metropolitan Planning Organization is conducting transportation planning in a continuous, cooperative, and comprehensive manner in accordance with 23 U.S.C. and 49 U.S.C. 1607; AND

WHEREAS, the Transportation Advisory Committee has found that the Transportation Improvement Program conforms to the purpose of the North Carolina State Implementation Plan for maintaining the National Ambient Air Quality Standards in accordance with 40 CFR 51 & 93; AND

WHEREAS, the Transportation Advisory Committee has found the Transportation Improvement Program to be in full compliance with Title VI of the Civil Rights Act of 1964 and Title VI Assurance executed by each State under 23 U.S.C. 324 and 29 U.S.C. 794; AND

WHEREAS, the Transportation Advisory Committee has considered how the Transportation Improvement Program will affect the participation of Disadvantaged Business Enterprises in FHWA and FTA funded projects (Sec. 105(f), Pub. L. 97-424, 96 Stat. 2100, 49 CFR part 23); AND

WHEREAS, the Transportation Advisory Committee has considered how the Transportation Improvement Program will affect elderly and disabled persons, in compliance with the Americans With Disabilities Act of 1990 (Pub. L. 101-336, 104 Stat. 327, as amended) and the U.S. DOT implementing regulations; AND

WHEREAS, the Greensboro Urban Area Metropolitan Transportation Improvement Program is pending conformity determination review; AND

WHEREAS, Interagency Consultation evaluation shows the Greensboro Urban Area Metropolitan Transportation Improvement Program is a subset of the currently conforming Long Range Transportation Plan; AND

WHEREAS, the Transportation Plan has a planning horizon year of 2030, and meets all the requirements for an adequate Transportation Plan; AND

WHEREAS, the Transportation Advisory Committee has provided for a 30 day public comment period for the proposed Transportation Improvement Program; AND

WHEREAS, the Transportation Advisory Committee has solicited public and private transportation provider comments; AND

WHEREAS, the Transportation Improvement Program, for year one only, will serve as the project selection document for transportation within the Greensboro Urban Area Metropolitan Area Boundary, and the NCDOT may move projects and phases of projects without additional programming or project selection approval by the MPO within that three-year period, providing that air quality conformity and financial constraint criteria are still met.

NOW THEREFORE be it resolved by the Greensboro Urban Area Transportation Advisory Committee that the Metropolitan Transportation Improvement Program for FY 2006 - FY 2012, dated June 22, 2005, be adopted, contingent upon approval of the conformity determination, for the Greensboro Urban Area Metropolitan Planning Organization on this, the 22nd day of June, 2005.

****

I, Sandy Carmany, TAC Chair
(Name of Certifying Official) (Title of Certifying Official)

do hereby certify that the above is a true and correct copy of an excerpt from the minutes of a meeting of the Greensboro Urban Area TAC duly held on this, the 22nd day of June, 2005.

Sandy Carmany
Chair, Transportation Advisory Committee

****

Subscribed and sworn to me this, the 22nd day of June, 2005.

Margie L Chrismon
Notary Public

My commission expires 6-23-07.

RESOLUTION ADOPTED BY THE BURLINGTON-GRAHAM URBAN AREA TRANSPORTATION ADVISORY COMMITTEE APPROVING THE LONG RANGE TRANSPORTATION PLAN UPDATE

WHEREAS, the Burlington-Graham Urban Area Metropolitan Planning Organization, and the North Carolina Department of Transportation are actively involved in transportation planning for the Burlington Graham Urban Area; and

WHEREAS, the Burlington-Graham Urban Area has an existing Long Range Plan dated July 1999 and a Thoroughfare Plan dated May 1999; and

WHEREAS, the Transportation Advisory Committee is the duly recognized transportation decision making body for the 3-C transportation planning process in the Burlington Graham Urban Area as required by 23 CFR Part 134; and

WHEREAS, the Technical Coordinating Committee and the Transportation Advisory Committee for the Urban Area have prepared an update to the 1999 Long Range Transportation Plan for the Urban Area; and

WHEREAS, it is recognized that the proper movement of traffic within and through the Burlington Graham Urban Area is a highly desirable element of the Long Range Plan for the orderly growth and development of the Urban Area; and

WHEREAS, after the full study of the updated Long Range Transportation Plan the Transportation Advisory Committee of the Burlington Graham Urban Area agrees that it to be in the best interests of the Urban Area to adopt said Plan and recommends its adoption to the North Carolina Department of Transportation; and

WHEREAS, the Long Range Plan has at least a 20 year horizon year and is fiscally restrained as required by 23 CFR Part 450.322; and

WHEREAS, the public has had the opportunity to review and comment on the Long Range Transportation Plan through public meetings and document sharing; and

WHEREAS, the Burlington Area Transportation Advisory Committee recognizes that the Long Range Transportation Plan 2030 must be in conformance with the North Carolina State Implementation Plan (SIP) and the National Ambient Air Quality Standards as mandated by the Clean Air Act Amendments of 1990.

NOW, THEREFORE BE IT RESOLVED that the Burlington Graham Urban Area Transportation Advisory Committee does hereby approve the Burlington Graham Urban Area Long Range Transportation Plan 2030, subject to a finding of conformity with the State Implementation Plan (SIP) or base year emission, in areas where no SIP has been approved or found adequate by the Environmental Protection Agency.

Adopted this day the 12th day of April 2005.

Leonard Williams

Leonard Williams, Chair
Transportation Advisory Committee

RESOLUTION ADOPTING THE FY 2006-2012 BURLINGTON GRAHAM MPO METROPOLITAN TRANSPORTATION IMPROVEMENT PROGRAM (MTIP)

A motion was made by Ed Hooks and seconded by Bill Miller for adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, the Transportation Advisory Committee has found that the Metropolitan Planning Organization is conducting transportation planning in a continuous, cooperative, and comprehensive manner in accordance with 23 U.S.C. 134 and 49 U.S.C. 1607;

WHEREAS, the Transportation Advisory Committee has found that the Transportation Improvement Program conforms to the purpose of the North Carolina State Implementation Plan for maintaining the National Ambient Air Quality Standards in accordance with 40 CFR 51 & 93;

WHEREAS, the Transportation Advisory Committee has found the Transportation Improvement Program to be in full compliance with Title VI of the Civil Rights Act of 1964 and the Title VI Assurance executed by each State under 23 U.S.C. 324 and 29 U.S.C. 794;

WHEREAS, the Transportation Advisory Committee has considered how the Transportation Improvement Program will affect the involvement of Disadvantaged Business Enterprises in the FHWA and the FTA funded project (Sec. 105(f), Pub. L. 97-424, 96 Stat. 2100, 49 CFR part 23);

WHEREAS, the Transportation Advisory Committee has considered how the Transportation Improvement Program will affect the elderly and the disabled per the provision of the Americans With Disabilities Act of 1990 (Pub. L. 101-336, 104 Stat. 327, as amended) and the U.S. DOT implementing regulations;

WHEREAS, the Burlington Graham MPO FY 2006-12 Metropolitan Transportation Improvement Program (MTIP) is a subset of the currently conforming 2030 Long Range Transportation Plan;

WHEREAS, the Transportation Plan has a planning horizon of 25 years, and meets all the requirements for an adequate Transportation Plan,

WHEREAS, the Transportation Advisory Committee has provided for a public comment period for the Metropolitan Transportation Improvement Program consistent with the MPO TIP Public Involvement Policy;

WHEREAS, the Transportation Advisory Committee has solicited public and private transportation provider comment;

WHEREAS, the Metropolitan Transportation Improvement Program, for years one and two, will serve as the project selection document for transportation projects within the Burlington Graham MPO, and the NCDOT may move projects and phases of projects without additional programming or project selection approval by the MPO within that two-year period, providing that air quality conformity and financial constraint criteria are still met;

NOW THEREFORE, be it resolved that the Burlington Graham MPO Transportation Advisory Committee (TAC) adopts the FY 2006-2012 Metropolitan Transportation Improvement Program dated August 16th, 2005, for the Burlington Graham Metropolitan Planning Organization on this the 16th day of August 2005.

Chair Transportation Advisory Committee

Clerk/Secretary/Planner