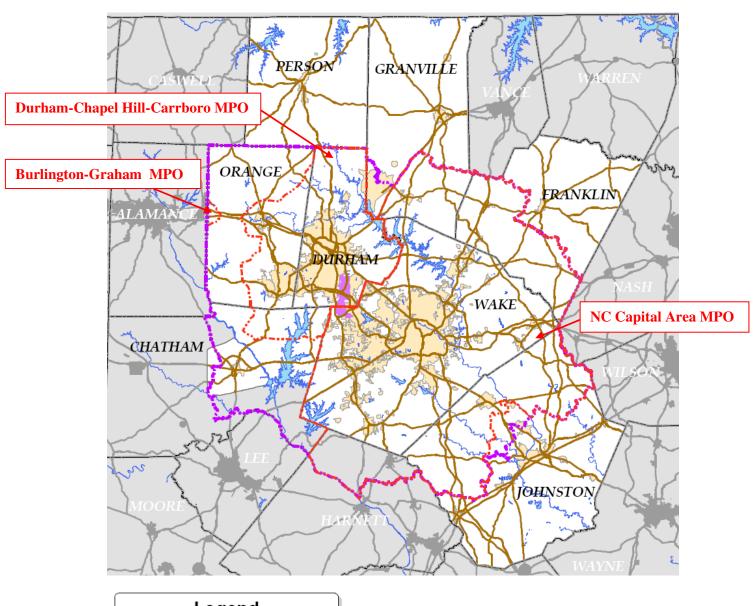
RESEARCH TRIANGLE REGION Conformity Determination Report

Amended 2035 Long Range Transportation Plan Amended 2009–2015 Transportation Improvement Program





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List of Acronyms

BG MPO: Burlington-Graham Metropolitan Planning Organization
CAAA: Clean Air Act Amendments of 1990 (United States)
CAMPO: Capital Area Metropolitan Planning Organization

CFR: Code of Federal Regulations CMAQ: Congestion Mitigation/Air Quality

CO: Carbon Monoxide

DAQ: Division of Air Quality (North Carolina)

DCHC MPO: Durham-Chapel Hill –Carrboro Metropolitan Planning Organization DENR: Department of Environment and Natural Resources (North Carolina)

DMV: Division of Motor Vehicles

DOT: Department of Transportation (North Carolina)
EPA: Environmental Protection Agency (United States)

FHWA: Federal Highway Administration
FTA: Federal Transit Administration
HBO: Home Based Other (trip purpose)
HBS: Home Based Shopping (trip purpose)
HBW: Home Based Work (trip purpose)

HOV: High Occupancy Vehicle

HPMS: Highway Performance Management System

I/M: Inspection/Maintenance

ISTEA: Intermodal Surface Transportation Efficiency Act
ITRE: Institute for Transportation Research and Education
KT RPO: Kerr-Tar Rural Transportation Planning Organization

LRTP: Long Range Transportation Plan MPO: Metropolitan Planning Organization

MTIP: Metropolitan Transportation Improvement Program (regional equivalent of the STIP)

NAAQS: National Ambient Air Quality Standards
NCDOT: North Carolina Department of Transportation

NHB: Non Home Based (trip purpose)

NO_x: Nitrogen Oxides

RPO: Rural Transportation Planning Organization RTAC: Rural Transportation Advisory Committee RTCC: Rural Technical Coordinating Committee

RVP: Reid Vapor Pressure

SAFETEA-LU: Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users

SIP: State Implementation Plan

STIP: State Transportation Improvement Program (statewide equivalent of the MTIP)

TAC: Transportation Advisory Committee

TAZ: Traffic Analysis Zone

TARPO: Triangle Area Rural Transportation Planning Organization

TCC: Technical Coordination Committee
TCM: Transportation Control Measure
TDM: Transportation Demand Management

TEA-21: Transportation Efficiency Act for the 21st Century

TIP: Transportation Improvement Program

TRM: Triangle Regional Model

UCPRPO: Upper Coastal Plain Rural Transportation Planning Organization

USEPA: United States Environmental Protection Agency

VKT: Vehicle Kilometers of Travel
VMT: Vehicle Miles of Travel
VOC: Volatile Organic Compound

Conformity Analysis and Determination Report

Amended 2035 Long Range Transportation Plans:

• Durham-Chapel Hill-Carrboro Metropolitan Planning Organization

Amended FY 2009 – 2015 Transportation Improvement Programs

- NC Capital Area Metropolitan Planning Organization
- Durham-Chapel Hill-Carrboro Metropolitan Planning Organization

Projects from the Amended FY 2009-2015 State Transportation Improvement Program:

• the portions of Chatham, Franklin, Granville, Johnston, Orange and Person Counties that are within the Triangle Ozone Maintenance Area but Outside the NC Capital Area and Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Areas

Executive Summary

This report addresses amendments to the 2035 Long Range Transportation Plan and FY2009-15 TIP to accommodate ARRA ("Stimulus") High Speed Rail funding for a railroad grade separation and realignment project with associated roadway changes at Hopson Road in Durham County. Based on an interagency consultation meeting on September 4, 2009 and subsequent discussions between MPO, NCDOT and FHWA staff, the following are major points:

- 1. The "Hopson Road Project" will have four elements:
 - a. Realignment of the NCRR alignment at Hopson Road to lessen the curvature of the rail line and grade separation of the rail road, with the rail road on a bridge over Hopson Road; the bridge will accommodate two tracks allow for a four lane cross-section of Hopson Road
 - b. Closure of the Church Street crossing of the Railroad south of Hopson Road and connection of Church Street north to Hopson Road
 - c. Construction of a second track on NCRR from south of the I-40 underpass to north of McCrimmon Parkway in Wake County.
 - d. Widening of Hopson Road from 2 to 4 lanes from NC 54 to the part east of Davis Drive that is being widened as part of the Davis Drive project (a distance of ~ 0.7 miles) this element is not part of the ARRA high speed rail funding and is unfunded and unscheduled.
- 2. The project is not regionally significant (9-4-09 interagency consultation meeting).
- 3. A regional emissions analysis is not required (9-4-09 interagency consultation meeting).
- 4. The following actions will need to be taken by the DCHC MPO, NC CAMPO and NCDOT:
 - a. DCHC MPO will adopt a 2035 LRTP amendment
 - b. DCHC MPO will adopt a 2009-15 MTIP amendment
 - c. DCHC MPO will make a conformity determination on the 2035 LRTP amendment
 - d. DCHC MPO will make a conformity determination on the 2009-15 MTIP amendment
 - e. NC CAMPO will adopt a 2009-15 MTIP amendment
 - f. NC CAMPO will make a conformity determination on the 2009-15 MTIP amendment
 - g. NCDOT will adopt a 2009-15 STIP amendment
 - h. NCDOT will make a conformity determination on the 2009-15 STIP amendment

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 authorizes USEPA 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 violates 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, which links transportation and air quality planning activities within a non-attainment or maintenance 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 a non-attainment or maintenance 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 plan 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 in concurrence with all conformity requirements as detailed in 40 CFR Parts 51 and 93 (the Transportation Conformity Rule) and 23 CFR Part 450 (the Metropolitan Planning Regulations). It demonstrates that amendments to the financially constrained long-range transportation plans and the transportation improvement programs (TIPs) eliminate or reduce future violation of the National Ambient Air Quality Standards (NAAQS) in the following jurisdictions:

- The Capital Area Metropolitan Planning Organization (CAMPO) 2009-15 TIP amendment,
- The Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHC MPO) **2035 LRTP and 2009-15 TIP amendment**, and
- The rural "donut" portions of the Triangle Ozone Maintenance Area outside of the MPOs in four townships in Chatham County and Orange, Franklin, Granville, Johnston and Person Counties.

Conformity Determinations for the 2035 Long Range Transportation Plans in the Triangle, along with their conforming FY2009-15 TIP subset, were most recently approved as follows:

- Capital Area MPO: May 20, 2009
- Durham-Chapel Hill-Carrboro MPO: May 13, 2009
- The NCDOT (for the rural portions of Chatham, Franklin, Granville, Johnston, Person and Orange Counties in the Triangle Ozone Maintenance Area): April 15, 2009
- Burlington-Graham MPO: April 21, 2009 [note: the Burlington-Graham MPO is not affected by the project addressed in this conformity report]

The above-named MPOs and portions of RPOs combine to form a region known as the "Triangle." The entire Triangle maintenance region is shown as a map in Figure 1.

By these actions, the MPOs and NCDOT demonstrated that the 2035 Long Range Transportation Plans are consistent with Section 176(c) of the Clean Air Act, the State Implementation Plan, SAFETEA-LU, and 40 CFR Parts 51 and 93. These conformity demonstrations were documented by the MPOs and NCDOT in the report entitled *Conformity Analysis and Determination Report, May 12, 2009.* That report included the regional emissions test comparison prepared for the 2035 Long Range Transportation Plans demonstrating that emissions in each of the analysis years of the long range plan (2015, 2025 and 2035) are less than or equal to, the motor vehicle emissions budget established by the State Implementation Plan in accordance with 40 CFR Part 93) and approved by USEPA for the corresponding year.

USDOT made its conformity determination on the 2035 Long Range Transportation Plans and the conforming FY2009-15 subsets listed above on June 15, 2009. A copy of the letter approving the conformity determinations is included in Appendix F.

All Federally funded projects and regionally significant projects, regardless of funding source, 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). The Triangle region is required by 40 CFR 51 and 93 to make a conformity determination on any newly adopted or amended fiscally constrained long-range transportation plan and 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 MPO Plans in the Triangle region and the related TIPs in all non-attainment and maintenance areas.

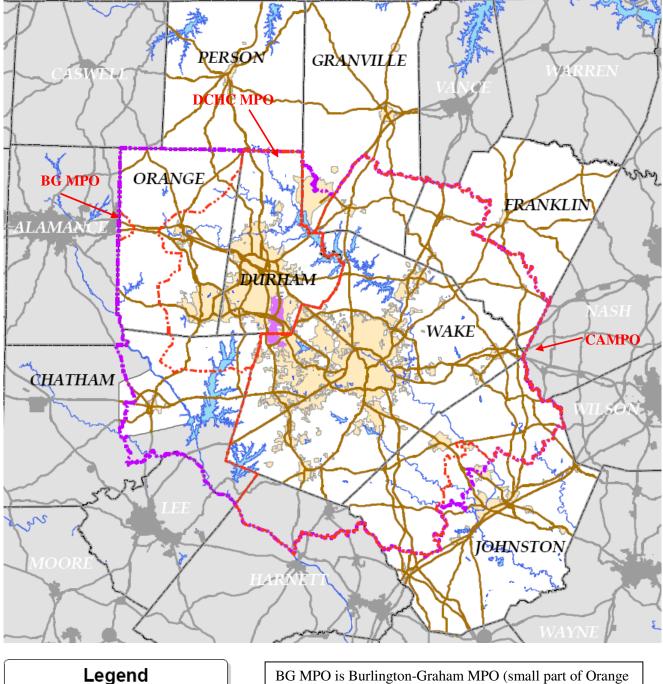


Figure 1. Triangle Ozone Maintenance Area



BG MPO is Burlington-Graham MPO (small part of Orange County in the maintenance area).

CAMPO is Capital Area MPO (all of Wake County and parts of Franklin, Granville, Harnett and Johnston Counties)

DCHC MPO is Durham-Chapel Hill-Carrboro MPO (all of Durham and parts of Orange and Chatham Counties

40 CFR Part 93 requires that a conforming transportation plan satisfy six 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.
- 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 each MPO's 2035 Transportation Plan, the 2009-15 TIPs and projects from the 2009-15 STIP in the donut areas meets each condition. Each condition is discussed in subsequent sections of this report. This report documents the interagency consultation process, public involvement process, and analysis used to demonstrate transportation conformity for amendments to the 2035 LRTP and 2009-15 TIP.

These analyses are consistent with the set of amendments to 40 CFR Parts 51 and 93, published in the January 24, 2008 **Federal Register**, *Transportation Conformity Rule Amendments to Implement Provisions Contained in the 2005 Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU); Final Rule*, effective on February 25, 2008. Based on the analysis documented in this report, the following Long Range Transportation Plans and TIPs conform to the purpose of the Triangle Area SIP:

- Capital Area MPO 2035 LRTP and the amended 2009-15 TIP
- Durham-Chapel Hill-Carrboro MPO amended 2035 LRTP and the amended 2009-15 TIP
- Projects from the <u>amended</u> 2009-2015 STIP in the donut areas of the Triangle Maintenance Area

The amended 2035 Long Range Transportation Plan and 2009-15 TIP accomplish the intent of the North Carolina State Implementation Plan (SIP). This conformity determination is based on the original regional emissions analysis that uses the transportation network approved by each of the above-named Metropolitan Planning Organizations (MPOs) and NCDOT, in coordination with the affected Rural Planning Organizations (RPOs), for the 2035 long-range transportation plan, and the emissions factors developed in cooperation with the North Carolina Department of Environment and Natural Resources (DENR).

The amended TIP for Fiscal Years 2009-2015 developed by the Capital Area MPO and adopted by the TAC on [date to be added in final document] is a subset of the conforming 2035 LRTP documented in this report.

The amended TIP for Fiscal Years 2009-2015 developed by the Durham-Chapel Hill-Carrboro MPO and adopted by the TAC on [date to be added in final report] is a subset of the conforming amended 2035 LRTP also adopted on [date to be added in final report] documented in this report.

The rural (donut area) county projects from the amended STIP for Fiscal Years 2009-2015 developed by the NCDOT and adopted by the Board of Transportation on [date to be added in the final report], are consistent with the rural (donut area) projects from the 2009-2015 STIP (for the donut area counties of Chatham, Franklin, Granville, Johnston, Orange and Person) that were modeled and found to conform by the USDOT on June 15, 2009.

2. Air Quality Planning

USEPA originally declared Durham County, Wake County and Dutchville Township in Granville County non-attainment for ozone (O₃) under the 1-hour ozone standard and Durham County and Wake County non-attainment for Carbon Monoxide (CO) on November 15, 1990. Ozone, the primary component of smog, is a compound formed when volatile organic compounds (VOC) and oxides of nitrogen (NO_x) mix together in the atmosphere with sunlight. NO_x and VOC are referred to as ozone "precursors." Durham County, Wake County and Dutchville Township were redesignated by USEPA to attainment with a maintenance plan for ozone under the 1-hour standard on June 17, 1994 and Durham County and Wake County were redesignated by USEPA to attainment with a maintenance plan for CO on September 18, 1995.

In 1997 the NAAQS for ozone was reviewed and revised to reflect improved scientific understanding of the health impacts of this pollutant. When the standard was revised in 1997, an eight-hour ozone standard was established that was designed to replace the one-hour standard. The USEPA designated the entire Triangle area as a "basic" non-attainment area for ozone under the eight-hour standard with an effective date of June 15, 2004; the designation covered the following geographic areas:

- Durham County
- Wake County
- Orange County
- Johnston County
- Franklin County
- Granville County
- Person County
- Baldwin, Center, New Hope and Williams Townships in Chatham County

On December 26, 2007, the Triangle Area was redesignated as attainment with a maintenance plan for ozone under the eight-hour standard. The USEPA direct final rule from the Federal Register for CO is found in Appendix A. The USEPA direct final rule for ozone is provided in Appendix B.

2.1 Emissions Budgets

DENR prepared emissions budgets as part of their CO and 8-hour ozone maintenance plans for those areas subject to budgets. Each of the eight counties or portions of counties in the bulleted list above is part of the Triangle ozone maintenance area under the 8-hour ozone standard and has emissions budgets for NO_x. Emissions budgets were established for 2008 and 2017. The 2008 budgets apply for years up to and including 2016, while the 2017 budgets apply for 2017 and all subsequent years. The December 26, 2007 Federal Register notice establishing the NO_x budgets deemed VOCs insignificant, hence no VOC budgets apply to the region.

Durham and Wake Counties have CO maintenance requirements under the most recent SIP Maintenance Plan update, which supplemented the pre-existing 2005 CO budgets with new 2015 budgets for each county. Under the update, the existing 2005 budgets from the prior SIP apply between 2005 and 2014 and the newer 2015 budgets apply from 2015 onwards.

Tables related to CO in this report reflect the motor vehicle emission budgets published in the March 24, 2006 Federal Register and effective May 23, 2006 (see Appendix A).

Tables 1 and 2 list the motor vehicle emission budgets for those portions of the Triangle subject to SIP budgets.

Table 1. NO_x Budget for Triangle Counties

NO _x : Redesignation SIP (kilograms/day)					
Area	SIP Budget year				
	2008	2017			
Chatham	1,565	948			
Durham	13,106	4,960			
Franklin	2,048	1,139			
Granville	4,649	1,714			
Johnston	12,583	5,958			
Orange	9,933	3,742			
Person	1,359	791			
Wake	36,615	16,352			

^{*} the last NO_x emission budgets are for 2017; all subsequent years are compared to the 2017 budget.

Table 2. CO Budget - Durham and Wake Counties

CO: from State Implementation Plan (SIP)				
	motor vehicle emissions budget (tons/day)			
Area	March 24, 2006 Federal Register Maintenance Plan Update			
	(2015 budget)			
Durham County	177.22			
Wake County	384.27			

^{*} the last CO emission budgets are for 2015; all subsequent years are compared to the 2017 budget.

3. Long-Range Transportation Plans

The 2035 Transportation Plans were developed between 2007 and 2009. Federal law 40 CFR part 93.104(b)(3) requires a conformity determination of transportation plans no less frequently than every four years. As required in 40 CFR 93.106, the analysis years for the transportation plans are no more than ten years apart.

The CAMPO area includes all of Wake County and parts of Franklin, Granville, Harnett and Johnston Counties. The DCHC MPO area includes all of Durham and parts of Orange and Chatham Counties. The BGMPO area includes a small portion of Orange County within the 8-hour maintenance area for ozone. The remaining portions of the non-attainment area are rural (donut) areas within the Triangle Area, Kerr-Tar and Upper Coastal Plain RPOs.

This report amends the DCHC MPO 2035 Long Range Transportation Plan by adding TIP Project #U4716, a railroad realignment and grade separation project with associated roadway changes at Hopson Road in Durham County; the project includes four elements:

- a) Project Element A Realign railroad and construct double track railroad bridge over Hopson Road; close Hopson at-grade crossing.
- b) Project Element B Extend Church Street north to Hopson Road and close Church St. atgrade crossing
- c) Project Element C Construct second track on NCRR from south of I-40 underpass to north of McCrimmon Parkway.
- d) Project Element D Widen Hopson Road to multilanes from east of Davis Drive to NC 54 (unfunded).

In addition to DCHC MPO amending its LRTP, the DCHC MPO, NC CAMPO and NCDOT will need to amend their relevant MTIPs and STIP to accommodate the project. NC CAMPO will need to amend the MTIP since the addition of a section of railroad track in Project Element C extends into Wake County. The NC CAMPO LRTP will not need to be amended to include the Hopson Road Project Elements because rail projects are included in the LRTP as a general funding category (which covers this project).

3.1 Consultation

The amendments to the 2035 Transportation Plan and FY2009-15 TIP are consistent with consultation requirements discussed in 40 CFR 93.105. Consultation on the development of this conformity determination was accomplished through an interagency consultation meeting held on September 4, 2009. A summary of the topics discussed and decisions reached at this meeting is included in Appendix C.

3.2 Financial Constraint Assumptions

Project Elements A, B and C listed earlier have been submitted for ARRA High Speed Rail stimulus funding. Grant awards are expected in January 2010 for the ARRA High Speed Rail

funding. Projects A and B will also receive funding through federal crossing elimination funds and railroad participation.

Estimates of cost and year of expenditure for Federal Fiscal Year (FFY) is as follows:

	2010	2011	2012	2013	unfunded
Element A		\$1,756,588	\$3,764,117	\$2,844,000	
Element B	\$633,600	\$1,800,000	\$300,000		
	(ROW)				
Element C		\$1,509,779	\$3,503,901	\$2,664,297	
Element D					\$1,126,400 (ROW)
					\$3,160,045 (construction)

Note: All costs are for construction, except where noted. Right-of-Way (ROW) is not required for Project elements B and C as these projects are being constructed on existing North Carolina Railroad (NCRR) ROW. Note that Project element D is unfunded and not scheduled. Eventual funding for Project element D is a condition of private sector development approvals in Durham and would not affect the fiscal constraint assumptions of the LRTP.

Therefore, with this amendment, the Transportation Plans remain fiscally constrained as discussed in 40 CFR 93.108. The DCHC MPO, Capital Area MPO and Burlington-Graham Long Range Transportation Plans are fiscally constrained to the year 2035. All projects included in the current 2009-2015 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 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 2035 Long-Range Transportation Plans.

3.3 Latest Planning Assumptions

The 2035 Transportation Plans used the latest adopted planning assumptions as discussed in 40 CFR 93.110, and were adopted as part of the Plans. No changes to these assumptions were made as part of the Plan amendment covered by this conformity report. A single travel demand model was developed for the urbanized portion of the Triangle non-attainment area. A single set of population, housing and employment projections was developed. In addition, a set of highway and transit projects that was consistent across jurisdictional boundaries was developed and refined through MPO cooperation. This collection of socioeconomic data, highway and transit networks and travel forecast tools, representing the latest planning assumptions, was finalized through the adoption of the Long Range Transportation Plans by the Capital Area MPO and Durham-Chapel Hill-Carrboro MPO in May 2009. Additional detail on these planning assumptions is available in the 2035 Long Range Transportation Plans and the conformity determination report for those plans.

3.4 Future year roadway projects

Roadway improvements used for conformity modeling were developed in the 2035 Transportation Plan process in each MPO. Outside of the MPO boundaries, TIP projects from the 2009-2015 TIP served as the future year roadway projects. For the 2035 Plans, lists of needed projects were developed based on modeled congestion and identified local needs. Improvements were coded into the TRM and analyzed. Intermediate analysis for the years 2015 and 2025 were performed to assist in prioritizing the 2035 roadway needs. The final 2015, 2025, and 2035 networks are fiscally constrained. Projects were added from MPO priority lists until estimated project costs equaled the expected funding available. The base network (2005) and the three future networks (2015, 2025, and 2035) used for the conformity determination were the same as the networks used for the 2035 Transportation Plans. 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.

The amendment to the DCHC MPO LRTP adds two roadway projects to the project list for the 2015 interim analysis year:

- a) the widening of existing Hopson Road, a 2-lane collector street, to 4-lanes for a 0.7 mile segment between Davis Drive and NC 54.
- b) the closure of the Church Street crossing of the NCRR and the extension of Church Street, a 2-lane collector street, north to Hopson Road.

The interagency partners also jointly developed lists of regionally significant and exempt projects for the 2035 LRTPs. The checklist below was used to guide the identification of regionally significant projects. After the MPOs, RPOs and NCDOT generated initial lists, the lists were reviewed by DENR, EPA, FTA and FHWA. Hopson Road is classified as an urban collector in the federal functional classification and is included in the Triangle Regional Travel Demand Model as a collector. The participants discussed the nature of the project and all concurred that the project elements, along with the designation of Hopson as a collector street, means that the project is not regionally significant as defined by 40 CFR Part 93.101.

Regionally Significant Project Checklist

- 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.
- 4. The facility is included in the travel model for the region (in many cases collector streets are modeled and not regionally significant).

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

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 2005. 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. Additions of passing sidings or additional double tracking of the freight/intercity rail system was not part of the modeled network; therefore, this amendment does not affect modeled transit networks.

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 is allocated to projects serving more than one non-attainment or maintenance area on a competitive basis. This amendment does not affect CMAQ projects in the Triangle region.

4. Regional Emission Analysis

In areas with an USEPA approved attainment demonstration or maintenance plan, an emissions budget comparison satisfies the emissions test requirement of 40 CFR Part 93.118. For pollutants for which an emissions budget has been submitted, the estimated emissions from the transportation plan must be less than or equal to the emissions budget values. Emissions factors were provided by DENR.

All parts of the Triangle Ozone Maintenance Area have emissions budgets. The participants at the September 4, 2009 Interagency Consultation Meeting discussed appropriate analysis. The participants concurred that because the project is not regionally significant, a new regional emissions analysis is not required; the analysis conducted earlier in 2009 for the 2035 LRTP is sufficient to demonstrate conformity.

For the LRTP amendment, 2 changes to the LRTP document will be prepared for the DCHC MPO:

- An amended project list in Appendix 1 of the 2035 LRTP to include the Hopson Road and Church Street changes
- A new amendment page within the body of the document to track this and any future amendments to the 2035 LRTP.

4.1 Transportation Control Measures

The North Carolina State Implementation Plan lists no transportation control measures pertaining to the Triangle.

5. Public Involvement and Interagency Consultation

The amended 2035 Transportation Plan is consistent with consultation requirements discussed in 40 CFR 93.105. Interagency consultation was a cooperative effort on the part of the Capital Area MPO, the Durham-Chapel Hill-Carrboro MPO, the North Carolina Department of Transportation and the Federal Highway Administration. The process was administered by the Triangle J Council of Governments on behalf of the partners and an interagency consultation meeting was held on September 4, 2009; the meeting summary is included in Appendix C.

Public review of this report is being handled in accordance with each MPO's public participation policy. A copy of the public participation policies are available for review. Comments from the public participation process will be incorporated into the final Conformity Analysis and Determination Report. Those comments will be included in Appendix D 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.

Table 3: Summary of Conformity Status of Triangle Transportation Plans

Criteria (√ indicates the criterion is met)	Burlington- Graham MPO 2035 LRTP & 2009-15 TIP*	Durham-Chapel Hill-Carrboro MPO 2035 LRTP & 2009-15 TIP*	Capital Area MPO 2035 LRTP & 2009-15 TIP*	Rural (Donut) Area of the Triangle 2009-15 STIP		
Less Than Emissions Budgets	\checkmark	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$		
TCM Implementation	The NC SIP includes no Transportation Control Measures in the Trian					
Interagency Consultation	V	V	V	V		
Latest Emissions Model	V	V	V	√		
Latest Planning Assumptions	V	V	V	V		
Fiscal Constraint	V	V	V	√		

^{*} The amended 2009-15 TIPs are direct subsets of the amended 2035 LRTPs

Yellow highlighting indicates amendments covered by this conformity report.

Specific conformity findings for each of these areas are listed below:

Burlington-Graham MPO Ozone Conformity Finding for the 2035 Long-Range Transportation Plan and 2009-2015 Transportation Improvement Program

No amendment to the 2035 LRTP or 2009-15 TIP is required

Capital Area MPO Ozone and Carbon Monoxide Conformity Finding for the amended 2009-2015 Transportation Improvement Program

Based on the analysis and consultation and involvement processes described in this report, the Capital Area MPO amended 2009-2015 Transportation Improvement Program is found to conform to the purpose of the North Carolina State Implementation Plan. The amended FY2009-15 TIP is a conforming subset of the conforming 2035 LRTP, thus emissions expected from the implementation of the Capital Area MPO 2035 Long-Range Transportation Plan and 2009-2015 Transportation Improvement Program are less than the applicable budgets for NO_x and CO; therefore the LRTP and TIP are in conformity with the 8-hour ozone standard and the carbon monoxide standard.

Durham-Chapel Hill-Carrboro MPO Ozone and Carbon Monoxide Conformity Finding for the amended 2035 Long-Range Transportation Plan and amended 2009-2015 Transportation Improvement Program

Based on the analysis and consultation and involvement processes described in this report, the Durham-Chapel Hill-Carrboro MPO amended 2035 Long-Range Transportation Plan and amended 2009-2015 Transportation Improvement Program are found to conform to the purpose of the North Carolina State Implementation Plan. The emissions expected from the implementation of the Durham-Chapel Hill-Carrboro MPO 2035 Long-Range Transportation Plan and 2009-2015 Transportation Improvement Program are less than the applicable budgets for NO_x and CO; therefore the LRTP and TIP are in conformity with the 8-hour ozone standard and the carbon monoxide standard.

NCDOT Triangle Rural (Donut) Area Ozone Conformity Finding for the amended 2009-2015 State Transportation Improvement Program

Based on the analysis and consultation and involvement processes described in this report, the amended 2009-2015 State Transportation Improvement Programs for the rural areas of counties in the Triangle that are outside of the MPO boundaries are found to conform to the purpose of the North Carolina State Implementation Plan. The emissions expected from the implementation of the 2009-2015 State Transportation Improvement Program are less than the applicable budgets for NO_x in the SIP; therefore the TIP is in conformity with the 8-hour ozone standard.