

UNIFIED PLANNING  
WORK PROGRAM  
2009 - 2010

**RFATS**

Rock Hill-Fort Mill Area Transportation Study

ROCK HILL – FORT MILL AREA  
TRANSPORTATION STUDY

FUNDING AGENCIES:  
CITY OF ROCK HILL, YORK COUNTY,  
TOWN OF FORT MILL, CITY OF TEGA CAY,  
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FEDERAL AID PROJECT # PL-112

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**INTRODUCTION**

The Unified Planning Work Program (UPWP) for the Rock Hill–Fort Mill Area Transportation Study Area (RFATS) is developed annually and documents all major transportation planning and related activities within the RFATS Study Area for the upcoming fiscal year (July 1, 2009 through June 30, 2010). The purpose of the UPWP is to plan work program tasks and present budget allocations for planning activities to be undertaken within the RFATS Study Area. The document also serves as the basis for all federal (FHWA/FTA), state (SCDOT), and local funding assistance for transportation planning activities.

**OVERVIEW**

With the passage of TEA–21 in 1998, the 15 metropolitan and 23 statewide planning factors for the old regulations were consolidated into eight factors. With the passage of SAFETEA–LU, the factors were expanded to include “...promote consistency between transportation improvements and State and local planned growth and economic development patterns.” With SAFETEA–LU, the eight planning factors (for both metro and statewide planning) are:

1. Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;
2. Increase the safety of the transportation system for motorized and nonmotorized users;
3. Increase the security of the transportation system for motorized and nonmotorized users;
4. Increase the accessibility and mobility of people and for freight;
5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;
6. Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;
7. Promote efficient system management and operation, and;
8. Emphasize the preservation of the existing transportation system.

**SAFETEA–LU PLANNING FACTORS**

<b>UPWP Work Tasks</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
A. Administration	X	X	X	X	X	X	X	X
B. Surveillance/Data Collection		X	X					
B-1. Travel Monitoring				X				
B-2. Land Use/Socio-economic Data Monitoring	X		X					
C. Transportation Planning Activities					X			
C-1. Long Range Planning	X	X			X	X		
C-2. Air Quality Planning					X		X	X
C-3. Short Range Planning		X					X	X
C-4. Transportation Improvement Program (TIP)						X		
C-5. Mapping				X			X	
C-6. Multi-Modal Planning	X			X		X		X
D. Public Participation Process		X		X				
E. MPO Consultant Services				X	X	X		X

## ORGANIZATION

### *Committees*

Policy Committee: The RFATS planning process is guided by a Policy Committee designated as the Metropolitan Planning Organization (MPO) by the Governor of South Carolina for the Rock Hill Urbanized Area. The RFATS Policy Committee is made up of eleven (11) voting members. The committee chair is determined through a yearly rotating schedule among members representing the local governments that participate in the process. The vice-chair is also selected by a vote of the members of the Policy Committee, and also serves a one year term. The voting members on the Policy Committee include local elected officials from the City of Rock Hill (3), Fort Mill (1), Tega Cay (1), York County (2), state senate representative (1), house representative (1), SCDOT Highway Commissioner(1), and the Tribal Chief or designee from the Catawba Indian Nation (1). Other agencies with interest or expertise in transportation participate in the process to provide additional input, advice, and coordination on transportation issues and programs. Interested parties affected by the transportation planning process may also be represented on standing committees such as the Study Team, which functions as the RFATS Technical Coordinating Committee (TCC). Other advisory committees or subcommittees may be formed on an as needed basis to address technical issues in the transportation planning process and to solicit citizen input. The City of Rock Hill Planning & Development Department provides administrative and technical services to RFATS and is responsible for implementing the RFATS Planning Program.

Study Team: The RFATS Study Team includes staff from each of the municipalities within the RFATS Study Area and York County, as well as the South Carolina Department of Transportation (SCDOT), the Federal Highway Administration (FHWA), the Catawba Regional Council of Governments (CRCOG) and the Catawba Indian Nation. The Rock Hill Transportation Planner serves as chair of the Study Team.

Citizens Advisory Committee: In 2007, the RFATS Policy Committee created a Citizens Advisory Committee to provide input and review of the RFATS' transportation planning process and activities. Members include representation from the five RFATS communities and at-large members representing underserved populations.

### *Management*

The management of the entire transportation planning program for RFATS is the responsibility of the City of Rock Hill Planning & Development Department, also known as the "Designated Planning Agency". This Planning Agency is responsible for coordinating, developing, and preparing all required RFATS plans and programs for submission to the Policy Committee after Study Team analysis and an appropriate citizen input process, if applicable. To a limited degree, York County Planning Department participates in various RFATS technical tasks in accordance with a City/County agreement identifying specific work tasks that are also related to the Unified Planning Work Program (UPWP). The SCDOT Planning and Mass Transit Divisions provide technical support for RFATS planning programs.

Specifically, RFATS required plans and programs include:

- Development of yearly budget and work tasks of the UPWP
- Update and maintenance of the Long Range Transportation Plan (LRTP)
- Ensuring the LRTP is in conformance with the EPA Clean Air Act and that the Plan meets the Conformity test for the non-attainment area
- Development and maintenance of a conforming Transportation Improvement Program (TIP)
- Enhancing and maintaining the Public Participation Process (PPP)
- Development and maintenance of a Congestion Management Process Plan (CMPP) and Congestion Mitigation Air Quality (CMAQ) program
- Development and maintenance of multi-modal transportation initiatives such as transit, bike and pedestrian alternatives
- Support for intermodal planning activities, i.e., freight movement
- Development and maintenance of the Transportation Enhancement Program (TEP)

- Update and maintenance of the Metrolina Travel Demand Model.

### Study Area

The RFATS Study Area includes the Rock Hill Urbanized Area as defined by the U.S. Census (population 94,156 – 2000 Census), plus those areas that are projected to experience growth similar in characteristics to the existing Urbanized Area over a twenty (20) year planning horizon (reference Figure 1). As a result of the 2000 Census, portions of the existing RFATS Study Area were included in the Charlotte Urbanized Area. This expansion of the Charlotte Urbanized Area enveloped the town of Fort Mill, Tega Cay and other unincorporated areas that were geographically tied (via census designation) to Charlotte–Mecklenburg urban growth that extended southward into South Carolina (reference Figure 2). This extended area had an estimated population of 24,149.

In order to maintain planning and programming continuity, the Mecklenburg–Union MPO (MUMPO) and RFATS agreed through a Memorandum of Agreement (MOA), that transportation planning and the FHWA/State required products would remain the responsibility of RFATS. Federal planning and programming funds that are earmarked for the South Carolina portion of the Charlotte Urbanized Area will be allocated by SCDOT directly to RFATS to support on-going planning and project programming activities. As a result of this agreement, there were no changes in membership on the RFATS Policy Committee.

Figure 1

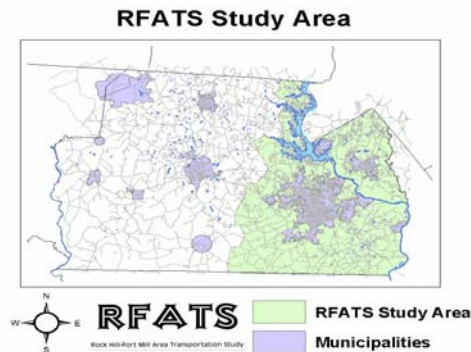
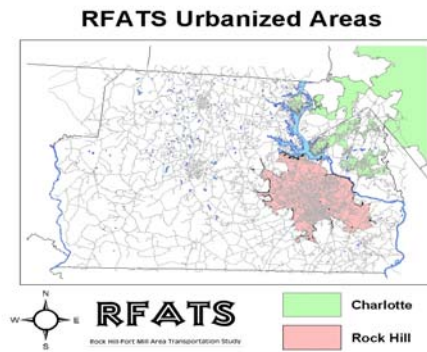


Figure 2



### AIR QUALITY BOUNDARY

The Environmental Protection Agency (EPA) released the nationwide list of counties that did not meet the 8-hour standard for ozone in 2004. The Charlotte region, including the RFATS Study Area (See Figure 1) was designated non-attainment (“Moderate”) for ozone, April 15, 2004. This action was final June 14, 2004. By determining that the RFATS Study Area should be a part of the Charlotte region for air quality conformity purposes, the Study Area is no longer eligible to participate in the South Carolina/EPA Early Action Compact (EAC). Both short range plans (TIP) and long range plans (LRTP) in the RFATS Study Area are required to demonstrate attainment with the ozone standards as well as to implement required air quality programs and measures that help to reduce ozone levels. To address the non-attainment classification, RFATS has participated in a regional transportation planning process with Charlotte and adjacent NC counties that were also designated non-attainment, to develop a regional travel demand model that will be used to test conformity of transportation plans. RFATS will continue to support the regional planning process currently in place. RFATS has a federally approved Conformity Determination Report for the non-attainment area as of March 5, 2007, and the USDOT and the USEPA found the 2030 LRTP and the 2006 – 2012 TIP to be in conformity in accordance with 40 CFR Part 93, et al., on March 5, 2007.

## AREAS OF EMPHASIS

The region's population, employment, and housing continue to expand creating the need to plan for and implement transportation infrastructure and services. The ability for the RFATS Study Area to remain livable and sustainable, as well as economically competitive is highly dependent on the quality of our transportation systems and availability of services. In order to address transportation needs, RFATS work tasks in the FY 09/10 UPWP emphasize the following key areas:

- Regional cooperation and coordination – Metrolina Regional Travel Demand Model maintenance and CRAFT (Charlotte Regional Alliance for Transportation) participation.
- Annual Land Use/Socio-Economic Data Monitoring and Update.
- Transportation Improvement Program (TIP) – continue to monitor and update as appropriate.
- Transportation Enhancement Program (TEP) – multi-year project development process.
- Congestion Management Process – updating of the 2004 CMS; implementation of CMP Plan and Congestion Management Air Quality (CMAQ) program.
- 2035 Long Range Transportation Plan and Air Quality Conformity Report – ongoing maintenance and implementation of action plan.
- Support for Multi-modal planning initiatives including fixed route and demand response transit service, rapid transit locally-preferred alternative implementation, and pedestrian/bicycle planning and programs.
- Support for Intermodal planning activities for containerized ship-rail-truck freight, truck routes, regional freight distribution centers, and related highway and intersection capacity improvements.
- ITS Coordination to ensure that intelligent planning is an active component in the overall transportation planning process.
- State Highway Safety Plan – project development and planning consistent with SHSP.
- Continuation and enhancement of Public Participation Process and supporting programs.
- Thoroughfare and sub-area planning in high growth areas.
- Short range planning and funding analysis for projects identified in the LRTP and TIP such as the 2010 Pennies for Progress initiative and economic stimulus funding.

Financial support for these elements is reflected in the allocation of resources in the UPWP to ensure the planning program will assist to meet local and regional transportation needs of area residents and businesses.

## PLANNING ACTIVITIES IN SUPPORT OF KEY AREAS OF EMPHASIS

### *Regional Cooperation and Coordination*

RFATS will continue to provide both technical (staff) and financial support to maintain the Metrolina Regional Travel Demand Model. This support will further the goal of enhancing regional cooperation in transportation planning in the Charlotte Metropolitan Area. Staff currently coordinates with its MPO partners in North Carolina through CRAFT, which exists to ensure coordination and consistency of the numerous transportation plans and programs being undertaken by the MPO's/RPO's throughout the entire metropolitan area. The intent of these efforts is to develop a framework for regional cooperation on those issues that transcend political boundaries (i.e. air quality, traffic models, long range plans, TIP's, CMP plans, TMA, transit, etc.)

### *Land Use and Socio-Economic Data Monitoring*

This key area of emphasis includes the continual monitoring of growth trends based on building permit and employment activities as well as updating the socio-economic data for the travel demand model. Work will focus on updating the data to ensure consistency with data formats for maintenance of the Metrolina travel demand model. In addition, data from the 2000 Census Transportation Planning Package (CTTP) will be analyzed to obtain additional insight into journey-to-work information in the RFATS area.

#### *Transportation Improvement Program (TIP)*

The TIP presents a list of projects that are planned for implementation each year over a five year period. The TIP is the list of all projects within the Study Area which are proposed for funding using federal, state, and/or local sources of funds. RFATS coordinates with the SCDOT, York County, Fort Mill, Tega Cay, and the Catawba Indian Nation in order to implement the TIP projects. Innovative planning and financing methods have been used to fund existing and on-going projects (i.e. York County "Pennies for Progress" capital projects sales tax). This key area of emphasis will focus on selection of new projects as funding is identified and the monitoring of existing projects. RFATS staff will work closely with York County staff regarding the funding priorities in the next round of Pennies for Progress projects.

#### *Transportation Enhancement Program (TEP)*

The TEP consists of multi-year project identification, selection, and prioritization. Funding may be used for: pedestrian/bicycle facilities and programs; scenic or historic sites preservation or programs; landscaping and other scenic beautification.

#### *Congestion Management Process: Program Updating & Implementation*

In order to ensure that the congestion management process serves as an effective planning tool, staff will be updating and refining the assumptions and results of the 2004 CMS. Specifically, this study will include an evaluation of CMP network monitoring procedures and measures of effectiveness as well as review of access management procedures and plans; review of appropriate mitigation strategies; as well as project prioritization and implementation strategies for CMP related projects. An additional focus will be thoroughfare and sub-area planning in high growth areas.

#### *CMAQ Program Implementation*

RFATS administers the CMAQ program, including an annual project selection process. RFATS is the only urban area in South Carolina that has been officially designated by EPA to be in violation of the 8-hour ozone standard - at the moderate level. The EPA considers RFATS' air quality the most degraded in South Carolina, and, as such, RFATS receives priority CMAQ funding from the FHWA. The types of projects and programs eligible for CMAQ funding include: improved public transit; HOV or transit lanes; traffic signal improvements; park and ride facilities; programs and ordinances to reduce the need for SOV travel; and construction of sidewalks and bicycle paths.

#### *Maintenance of the 2035 Long Range Transportation Plan and the Air Quality Conformity Report*

The 2035 LRTP and Air Quality Conformity Report were approved by the EPA and the FTA in June 2009. Both will be subject to on-going maintenance based on the identification of new projects or changes in scope of existing projects.

#### *Support for Multi-Modal Planning Initiatives*

Recognizing the need to move from an emphasis on major highway widening projects towards creating a multi-modal transportation system in the LRTP - RFATS will emphasize the development of transit and other alternative modes of travel in the Study Area, including transit, and pedestrian and bicycle systems. A Major Investment Study (MIS) was completed in the fall of 2007 to determine transit options in the I-77 travel corridor. Additional planning and transit-related strategies are needed to implement the study recommendations. Also, an additional express bus route has been proposed along the Celanese Road Corridor to begin operation in FY 2009-2010 to expand the availability of public transit as well as to improve

congestion on Celanese Road – a major arterial feeding into I-77. RFATS staff will also continue its coordination with York County and municipalities as well as the Carolina Thread Trail initiative regarding the development of a regional trail system involving both Carolinas.

#### *Support for Intermodal Planning Activities*

RFATS recognizes the importance of intermodal freight and associated truck and distribution activities, as well as the economic impact of these activities in the study area. Freight movement and accompanying distribution centers may serve to increase economic activity and employment in the study area; however, careful planning is necessary to ensure truck routes that minimize impacts on local roadways and to area residents, as well as reducing negative environmental impacts. RFATS has identified stakeholders in its Study Area and surrounding areas, and is part of a cooperative effort both in York County and in the Charlotte, NC metro area, to plan and coordinate on Intermodal activities.

#### *Intelligent Transportation System Planning / Projects*

RFATS and SCDOT maintain active coordination regarding (ITS) deployment within the RFATS Study Area. While to date Incident Management has been the key application of ITS, it was noted during the 2008 Certification review that enhanced ITS coordination should be implemented to ensure that consistent and supportive project planning is achieved; RFATS will work SCDOT to improve the incorporation of ITS planning into the broader transportation planning process.

#### *State Highway Safety Plan*

The statewide highway safety plan is the key framework for highway safety. Therefore, RFATS will continue to support the plan as well as actively taking account of its goals and key strategies in the transportation planning process. Specifically, RFATS staff will review how to contribute to the eight key strategies identified in the SHSP as well as coordinate with SCDOT on the development of appropriate, regionally-based safety strategies for the RFATS Study Area.

#### *Public Participation Process Monitoring*

As part of its ongoing transportation/transit planning process, the RFATS Policy Committee invites and encourages public participation. RFATS has increased public outreach and education through the development and use of an aggressive Public Participation Process. This Plan was utilized during the development of the 2035 LRTP update in 2008–09, and will continue to be employed in FY 2009–10 in order to ensure that meaningful public participation continues to inform the RFATS Planning Process. It should be noted that the RFATS Policy Committee established a Citizens Advisory Committee to promote participation, input and information-sharing with traditionally underserved populations. In addition, the Policy Committee approved an updated PPP in early 2008.

### **ALLOCATION METHODOLOGY**

The allocation of available funds in the UPWP is based on an assessment of ongoing activities in the current year UPWP and planned activities to be undertaken in the new fiscal year. In addition to in-house staff time spent on RFATS related tasks, it is anticipated that consultant services will be utilized for project management assistance on specific objectives and tasks. The transportation planning activities are divided into the following general areas:

- Administration – general administration, program development, participation in regional coordination activities including coordination of air quality issues
- Surveillance/data collection – collecting and monitoring land use and travel characteristics and factors affecting travel
- Transportation planning activities – includes transportation system work tasks which are supportive of the overall transportation planning effort

- Public participation - implementation and monitoring of the PPP consistent with federal/state guidelines.

## A. Administration

Purpose: To provide effective and efficient management of the entire transportation planning program for the RFATS Study Area. This includes the support required to prepare and administer the UPWP and act as staff to the Policy Committee, Study Team, Citizens Advisory Committee and other committees involved in the RFATS Planning Program.

Prior Work: Transportation planning activities to date have been conducted by staff from the City of Rock Hill Planning Department with limited assistance from staff of the York County Planning Department. Staff from the various agencies involved in the MPO process also participates in RFATS planning activities via the Study Team. Participants include the Town of Ft. Mill, the City of Tega Cay, the South Carolina Department of Transportation (SCDOT), the Federal Highway Administration (FHWA), the Catawba Indian Nation, and the Catawba Regional Council of Governments (CRCOG).

Staff also completed a Title VI Program Plan update consistent with Title 49, Chapter 53, et esq. Additionally, staff completed to a Title VI Program Compliance Assessment from SCDOT.

Scope/Work: To provide the administrative support and supervision that is needed to administer the plans and programs identified in the UPWP and provide staff support to the MPO. Tasks include: preparation of time sheets and annual and quarterly reports; administration of related grants; processing and maintaining related records, correspondence, agendas, minutes, maps and materials, and coordination of the MPO program with other transportation planning agencies. Staff will apply for and administer other related grants; meet requirements on contracts, purchases, fiscal accountability and audits. Funds are administered by SCDOT, regardless of sources, will be subject to provisions of OMS Circular A133, the Single Audit Act. The scope also includes staff attendance at various training sessions related to the transportation planning process and annual MPO conference. In addition, this task includes participation in regional transportation planning activities that have an impact on the transportation system in the RFATS Study Area, including CRAFT.

Responsibility: This element will be completed by the City of Rock Hill Planning & Development Department, Project Management Consultants, and the SCDOT.

Products: Continuance of a comprehensive and coordinated transportation planning process and the management of a viable transportation planning program in the RFATS Study Area including regional coordination of the entire transportation planning program with MPO partners in the Metropolitan Study Area (MSA). Other products include:

- Adopted FY 2010/11 UPWP
- Meeting agenda packets and minutes of meetings
- Communication to appropriate individuals and agencies
- Transportation grant applications and financial reports and audits
- Invoices and quarterly progress reports, including records of funds, expenditures and overall program progress
- Implementation of suggestions from 2008 MPO Certification Review
- Internet Web Site maintenance and updates
- Training and conference attendance
- Regional coordination activities, i.e., CRAFT and regional model

Schedule:

- Policy Committee agenda packets / minutes - 6 days prior to meeting

- Transportation grant applications
  - FTA 5307 – March 31, 2010
  - SMTF – January 31, 2010
  - Other applications – as needed
- UPWP Preparation – March , 2010
- PL and quarterly progress reports – 7/15/09; 10/15/09; 1/15/10; 4/15/10;
- Public notification/ website updates – monthly
- Grant invoices / reports – monthly
- Training / conferences – as available
- Regional meetings – quarterly
- Administrative duties – on-going
- CRAFT meetings – quarterly

**Funding: A**

SOURCE	SHARE	AMOUNT
Local (Rock Hill/York Co.)	20%	\$10,000
Federal (FHWA-PL)	80%	\$40,000
State (SCDOT)	*	
Federal (FHWA-SPR)	*	
TOTAL (PL/Local)	100%	\$50,000

*\*Not included in totals--see Summary of Costs table for totals.*

**B. SURVEILLANCE/DATA COLLECTION**

This element includes the collection, analysis, and dissemination of data related to transportation planning. Land use and socio-economic data are collected from existing sources and inventoried by Traffic Analysis Zone (TAZ) to produce a base year-forecast year for transportation model inputs. In addition, travel data (counts) are obtained from the SCDOT traffic counting program, private development proposals, and from information collected from city police traffic counters and speed monitoring devices.

*B-1 Travel Monitoring*

**Purpose:** Monitor current traffic characteristics and travel patterns. Data will provide planners with information on both the existing and projected operating conditions of the transportation system and to assist in the identification of needs.

**Prior Work:** Traffic counts from 2007 were reviewed and information disseminated to the general public based on request. Traffic count data and speed studies were completed for several neighborhoods and road corridors and documented in a project notebook.

**Scope/Work:** SCDOT conducts annual traffic counts, monitors auto registrations and accident trends and assists in analyzing area-wide travel trends. The Rock Hill Police Department completes special traffic counts and speed studies as needed or directed by the Traffic Commission. This information will continue to be collected in a project notebook. The City may procure computer hardware and/or software as needed to assist in the collection, storage, and analysis of traffic count data or out source data collection to assist in the implementation of the CMP Plan or in support of Traffic Commission activities. Count data will be updated on York County's website.

**Responsibility:** City of Rock Hill Planning Staff, SCDOT and consultant services (if needed).

**Products:**

- Improved traffic generation database

- Trip generation studies for various land uses
- Maintenance of traffic count database
- Street segment speed and electronic eye (stealth) count studies
- Composition/turning movements and accident reports
- Traffic count and/or flow map (digitized, geo-based)
- CMP network monitoring including congestion analysis
- Major intersection inventory & congestion ranking based on operating LOS
- Acquisition of traffic counting devices (if needed)

Schedule:

- Trip generation studies - monthly based on development project
- Traffic monitoring / studies - monthly
- Traffic counts data website update - annual

Funding: B-1

SOURCE	SHARE	AMOUNT
Local (Rock Hill/York Co.)	20%	\$2,000
Federal (FHWA-PL)	80%	\$8,000
State (SCDOT)	*	
Federal (FHWA-SPR)	*	
TOTAL (PL/local)	100%	\$10,000

*\*Not included in totals—see Summary of Costs table for totals*

**B-2 LAND USE/SOCIO-ECONOMIC DATA MONITORING**

Purpose:

Develop and maintain accurate transportation-related socio-economic and land use variables to support travel demand models. Data to be developed by TAZ and include both current and projected socio-economic data for the variables required for the traffic forecast model.

Prior Work:

Staff supported socio-economic data needs for the Metrolina Model through the Land Use Sub-committee. Staff activities also included completing work on the 2007 SE data updates and review of highway networks for the Metrolina Model. Additionally, staff prepared and submitted revised TAZ allocations for the 2035 County and Regional population totals; pipeline development projections were collected and analyzed. Staff also continued to participate in coordinated meetings with the Metrolina Partners regarding the administration of the Model.

Scope/Work:

The Planning Agency will continue to update and coordinate land use and SE data as necessary to maintain data inventories in support of the Metrolina Regional Travel Demand Model. Population and employment locations and growth trends will be mapped through 2035. Data sources will continue to be reviewed and information from the CTPP analyzed. Data collected routinely by local units of government (utilities, building permits, development, and rezonings, etc.) will continue to be evaluated and entered into a database to track growth activity. Tasks include:

- Continue implementation of local S/E Data Reporting System for data collection on ongoing basis
- Make available TAZ population and employment data to ensure accuracy and consistency with the transportation plan
- Monitor residential building permits and housing starts by traffic zone/census block groups and convert to dwelling units and population estimates
- Monitor school enrollment by TAZ

- Collect business license information and other retail sales data and employment information by TAZ
- Develop data for comprehensive plan updates, and corridor and focal point studies, as needed
- Participate both financially and with staffing resources in model maintenance activities

**Responsibility:** The City of Rock Hill Planning Staff, Project Management Consultants, and/or contractors from local government and private data agencies already collecting land use and socio-economic information by traffic zone in study area

**Products:** Study Area map and updated zonal files of socio-economic data for the base year, interim, and forecast year as well as travel demand model maintenance.

**Schedule:**

- Socio-economic data update for Metrolina travel demand model – July, 2009

**Funding B-2:**

SOURCE	SHARE	AMOUNT
Local (Rock Hill/ York Co.)	20%	\$5,000
Federal (FHWA-PL)	80%	\$20,000
TOTAL (PL/local)	100%	\$25,000

**C. TRANSPORTATION PLANNING ACTIVITIES**

This UPWP element will address the completion of required products and various special studies that will assist in the identification of needed transportation improvements and services for the RFATS Study Area. The City and SCDOT, working through the Study Team, will oversee planning activities and identify needed transportation improvements in compliance with federal rules and regulations. The overall objective of this task is to maintain a current responsive long range plan that meets air quality conformity for the non-attainment area, and develop short range plans as components of the LRTP that help meet the mobility needs in the Study Area.

*C-1 Long Range Planning*

**Purpose:** To maintain the RFATS 2035 Long Range Transportation Plan in accordance with FHWA, FTA, and EPA Air Quality Conformity requirements.

**Prior Work:** Staff continued to participate in the Charlotte Region HOV/HOT Managed Lanes Study. Staff also completed work on the 2035 LRTP update with assistance from the Metrolina Partners and the Interagency Committee as well as Study Team members. On April 24, 2009, the 2035 LRTP was adopted by the Policy Committee in order to incorporate new projects in the 20-year horizon and respond to requirements of the Federal Clean Air Act and SAFETEA-LU.

**Scope/Work:** RFATS staff will maintain the 2035 LRTP. This work will ensure the LRTP remains in conformance with established air quality standards for the non-attainment area and meets the requirements of SAFETEA-LU. The work may also include project specific testing to determine impacts on air quality.

**Responsibility:** The City of Rock Hill Planning Staff, consultant services, and SCDOT.

**Product:** The adopted RFATS 2035 Long Range Transportation Plan and Air Quality Conformity Report will be maintained in accordance with federal regulations for non-attainment areas.

Schedule:

- Implementation and maintenance of Long Range Plan – ongoing
- Distribution of LRTP to public and stakeholders – October 2009
- Implementation of action plan – ongoing

Funding C-1:

SOURCE	SHARE	AMOUNT
Local (Rock Hill/York Co.)	20%	\$ 8,000
Federal (FHWA-PL)	80%	\$32,000
State (SCDOT)		
Federal (FHWA-SPR)		
TOTAL (PL/Local)	100%	\$40,000

*C-2 Air Quality Planning*

Purpose:

To maintain a conforming LRTP/TIP in accordance with current requirements for non-attainment areas.

Prior Work:

Prior work consisted of review of EPA rules and regulations, on-going coordination with partnering agencies (Interagency Consultation), and development of the Conformity Report in conjunction with the 2035 LRTP update. RFATS staff also worked with SC-DHEC on several issues, including withdrawal of the SIP; recommendations related to new non-attainment boundary for York County; and air quality improvement measures for region. Additionally, staff participated in Local Public Agency (LPA) training on required project administration procedures for the CMAQ program. Staff also continued to coordinate with SCDOT and FHWA on the CMAQ funding allocation formula. Staff also participated in regional travel demand model training in February, 2009.

Scope/Work:

Participate in the continued maintenance of the Metrolina Regional Model as needed to complete any conformity tests of planned projects in the LRTP. Work with DHEC on revised SIP to be submitted to EPA in November, 2009. Other activities include:

- Continue to participate in the interagency consultation process
- Participate in training on MOBILE6 software as needed
- Update the Conformity determination as needed in consultation with FHWA, EPA, SCDOT, DHEC and the Metrolina partners
- CMAQ project selection and update air quality benefit methodology as appropriate
- Attend relevant workshops, meetings and training sessions
- Utilize project management consultants as needed
- Work with DHEC on Regional Air Quality Working Group activities

Responsibility:

City of Rock Hill Planning staff, consultant services (if needed) in conjunction with SCDOT, DHEC, EPA, and Metrolina partners

Products:

Maintenance of the Air Quality Conformity Determination Report, completion of air quality analysis for projects (if needed), development of annual CMAQ project list, monitoring and implementation. Interagency Consultation meetings.

Schedule:

- Interagency Consultation Group participation – monthly
- CMAQ project selection – September, 2009
- CMAQ air quality benefit analysis methodology – June, 2010
- MOBILE6 training – availability of class (TBD)
- Other training – as provided
- CMAQ projects implementation / monitoring – ongoing

- Submittal of SIP to EPA – November, 2009
- Charlotte Air Quality Working Group participation – quarterly

Funding C-2:

SOURCE	SHARE	AMOUNT
Local (Rock Hill/York Co.)	20%	\$ 8,000
Federal (FHWA-PL)	80%	\$32,000
State (SCDOT)		
Federal (FHWA-SPR)		
TOTAL (PL/Local)	100%	\$40,000

*C-3 Short Range Planning*

Purpose: To identify short range projects, and provide coordinated transportation planning studies and traffic engineering analyses to maximize the efficiency of the existing transportation system.

Prior Work: The CMP Plan has identified needed improvements and strategies to enhance the transportation system management program. Work also includes coordination of work tasks related to the City of Rock Hill Traffic Commission and other reviews of current development impacts. Additionally, staff also participated on a project team to develop options/concepts for the US 21 bridge replacement. Staff participated in traffic studies for the I-77 corridor and the new South Pointe High School area.

Scope/Work: Studies will be performed at existing or potential hazardous or congested roadway locations to identify specific problems created by geometric or operating characteristics or freight movement; it should be noted that an update to the 2004 CMS Study will be undertaken during FY 2009-2010. In addition, thoroughfare and collector studies may be prepared to determine future roadways and reduce traffic on principal arterials. Data secured during studies or from existing sources will be evaluated to determine specific deficiencies and identify need improvements. Recommendations will be developed from studies and analyses of data, which, when implemented, will promote safety and efficiency. These recommendations will be documented by conceptual drawings and/or written text.

Traffic engineering/transportation planning evaluations will be performed to measure consistency of policy and programs with development plans. These studies will be conducted to define the special needs and plans of the transportation system (including streets, parking facilities, sidewalks/bikeways, freight movement areas, and rights-of-way) to enable improvements to be developed, thereby increasing the overall consistency and operating efficiency of this system.

Special impact analysis studies (site-corridor entrance plans) will be conducted and plans will be reviewed for consistency with design criteria and land use.

The Transportation Enhancement Program (TEP) will be managed through the development of a priority-setting process using relevant evaluation criteria. Potential projects will be identified and recommended for inclusion in the TIP.

Responsibility: The City of Rock Hill Planning Department, Project Management Consultants, SCDOT, and consultant services as well as other government agencies conducting planning and traffic studies in the Study Area.

Products:

Recommendations will be presented to the RFATS Study/Policy Committees, city and county governments, and other appropriate implementing agencies. These reports include:

- Transportation System Management (TSM) reports as needed
- Special impact study reports
- Site plan reviews (transportation impacts/encroachments)
- CMP Plan update 2009 and implementation activities
- Thoroughfare and sub-area plans
- Corridor plan studies
- Rights-of-way protection ordinances
- Intersection improvement inventory
- Traffic Commission support
- Traffic Calming programs

Schedule:

- Traffic Commission support - monthly
- Traffic impact studies - monthly
- Review of site plans / encroachment - as needed
- Development of policies, ordinances to protect ROW and manage access - June, 2010
- CMP updated - June, 2010
- TEP program implementation / monitoring - monthly

Funding C-3:

SOURCE	SHARE	AMOUNT
Local (Rock Hill/York Co.)	20%	\$14,000
Federal (FHWA-PL)	80%	\$56,000
State (SCDOT)		
Federal (FHWA-SPR)		
TOTAL (PL/Local)	100%	\$70,000

*C-4 Transportation Improvement Program (TIP)*

Purpose:

To plan, develop, and prioritize a 5-year schedule of transportation improvements that are consistent with the updated Long Range Plan (C-1), Short Range Plans (C-2), STIP, and include project cost estimates. Meet federal and state Metropolitan Planning requirements identifying federal, state, and locally funded transportation improvements.

Prior Work:

A TIP has been prepared to maintain a five-year horizon. Project status is monitored at RFATS Policy Committee meetings. Amendments have been processed as needed. Additionally, staff prepared and advertised an Annual TIP Progress Report.

Scope/Work:

The new TIP will be monitored under the direction of the RFATS Policy Committee in cooperation with state, federal, and local officials. The Study Team will make recommendations to the Policy Committee for necessary revisions. The TIP will incorporate a project selection and prioritization process for project selection as well as communicating the progress of TIP projects during the preceding year for public review. TIP projects will include improvements recommended from the Long Range Plan and short range transportation analyses (C-1, C-2, C-3).

Responsibility:

The City of Rock Hill Planning Staff and SCDOT will participate in the preparation of the TIP.

Product: The TIP will be consistent with the Long Range Plan, including project maps, and will be prepared and documented in an annual report for public review.

Schedule:

- Monitor TIP and recommend amendments - as needed
- Annual progress report - July, 2010

Funding C-4:

SOURCE	SHARE	AMOUNT
Local (Rock Hill/York Co.)	20%	\$4,000
Federal (FHWA-PL)	80%	\$16,000
State (SCDOT)		
Federal (FHWA-SPR)		
TOTAL (PL/Local)	100%	\$20,000

*C-5 Mapping*

Purpose: Production of accurate maps showing existing roads, linked to available surveillance and planning data. Maps will be digitized and geo-based, when possible.

Prior Work: City of Rock Hill GIS and York County GIS Divisions have digitized the Study Area basic street maps and linked the maps, zoning, parcel, and address data. Currently the TAZ map is digitized on both the Tiger File and the City GIS. Staff also prepared maps of the CMAQ projects as well as maps of the draft 2035 LRTP Project List.

Scope/Work: The Planning Agency will be responsible for maintaining an accurate geo-based Study Area Map and related databases to include: base maps, TAZ maps, census street maps, census block maps, project maps, and the data elements collected in Surveillance Tasks (B-1, B-2). Visuals of the LRTP and TIP will be prepared to inform the Policy Committee and public on transportation projects.

Responsibility: The City of Rock Hill Planning Staff, York County Planning, local governmental agencies, and their contractors, already collect information by traffic zones in the study area.

Product: The official Study Area Map and database, to include:

- Address database and TAZ layer (adjusted to base)
- Base street map layer and census
- TIGER road layer
- Traffic volume and flow layer(s)
- Socio-economic database & layer(s)
- LRTP, TIP and other relevant transportation maps

Schedule:

- Create maps to support program areas - as needed

Funding C-5:

SOURCE	SHARE	AMOUNT
Local (Rock Hill/York Co.)	20%	\$1,000
Federal (FHWA-PL)	80%	\$4,000
TOTAL (PL/Local)	100%	\$5,000

## *C-6 Multi-modal Planning*

**Purpose:** Multi-modal Planning will consist of supporting and evaluating transit options, support for the Rock Hill Express commuter service, and planning for new multi-modal initiatives/projects. The program will be coordinated with other federal, state, and local agencies, as needed.

**Prior Work:** Staff continues to coordinate with the Charlotte Area Transit System (CATS) as to the on-going operations related to regional express bus service (Rock Hill Express 82X). The service agreement was renewed in 2008. Service expansion is being considered along the Celanese Road (SC 161) corridor for FY 2009-10.

RFATS has completed a commuter bus study for the Lake Wylie area and continues to coordinate with CATS regarding future implementation.

The findings of the Rock Hill/York County/Charlotte Rapid Transit Study were endorsed by the Policy Committee in June, 2007. Implementation strategies are being prepared; specifically, a TOD model ordinance that will assist staff in further developing compatible land use and zoning implementation of the station areas along the US 21 transit line. In addition, a right-of-way preservation ordinance for the US 21 corridor is being prepared.

City of Rock Hill demand response service in the Rock Hill urbanized area completed its first full year of operation in December 2008, with steady double digit ridership growth. Staff will continue to monitor route needs and progress.

Several trail projects are underway in Rock Hill, Fort Mill, Tega Cay and York County. RFATS staff completed preparation of greenway and trails master plan(s) for York County and Rock Hill. In addition, staff is participating in a regional trail network (Carolina Thread Trail Initiative) involving counties in both Carolinas.

**Scope/Work:** The scope of work is consistent with prior year activities and will include coordination with CATS on enhancements of existing express bus service or additional routes; express bus marketing efforts; implementation of the Rapid Transit Study recommendations; preparation of transit related studies as needed to assess service needs; attendance at transit planning workshops/conferences; LRTP element related to transit.

**Responsibility:** City of Rock Hill Planning Staff and Project Management Consultants

**Product:**

- Continued support for the Rock Hill Express Bus Service
- Service study of additional express bus routes/marketing requirements /parking & ride locations
- Transit corridor implementation activities
- Development of transit-oriented land use and zoning standards
- Training and conference attendance
- Coordination with the Regional Transit Management Association. (RTMA)
- CMAQ project candidates - transit
- Implementation of trails master plans for Rock Hill and York County
- Continue demand response service for Rock Hill urbanized area
- Carolina Thread Trail segments for York County/RFATS Study Area

Schedule:

- Implementation of Rapid Transit Study recommendations –ongoing
- Monitor 82X bus service ridership – monthly
- Continue coordination with CATS regarding implementation of additional route along the Celanese Road Corridor – July, 2009
- Incorporation of Transit-oriented development policies and standards – July, 2009
- SMTF application – January 31, 2010

Funding:

SOURCE	SHARE	AMOUNT
Local (Rock Hill/York Co.)	20%	\$ 6,000
Federal	80%	\$24,000
TOTAL (Fed/Local)	100%	\$30,000

**D. PUBLIC PARTICIPATION PROCESS**

Purpose:

The RFATS Public Participation Process is designed to inform and include the general public as to transportation plans and programs; to facilitate citizen participation and input; and to ensure that the requirements of Title VI are met in the planning process.

Prior Work:

RFATS continues to implement public notification procedures outlined in the Policy Committee Bylaws. In addition, the website was enhanced/updated on RFATS planning activities. Local news media coverage on RFATS program has increased. Several articles about the commuter bus service and the recommendations from the Rapid Transit Study have enhanced public communication.

The Policy Committee established a Citizens Advisory Committee to provide input and feedback on RFATS planning efforts and programs. The CAC meets quarterly or more frequently as appropriate. Additionally, the CAC prepares and submits an annual report to the Policy Committee outlining their participation and activities as well as any recommendations for improvement.

To promote public awareness of RFATS and its programs, staff actively monitors the availability of informative materials (RFATS brochure) through all of the RFATS community members; specifically, this brochure provides a history as well as comprehensive purpose statement for RFATS and the core objectives of the transportation planning process. In addition, an annual progress report was prepared and featured in the local newspaper.

Staff conducted public meetings and stakeholder interaction with the development and public review of the 2035 LRTP update. Additionally, staff conducted a public hearing and citizen outreach encouraging comments and participation in the September 2008 Certification Review conducted by FHWA.

Scope/Work:

RFATS will make its meetings and work products available for public review at the City's offices and on its website (this also includes website availability through all the RFATS communities). In addition, for all major plans and products (i.e. Long Range Plan, TIP, etc.), the Policy Committee will adhere to its public notification procedures as stated in the adopted RFATS bylaws and public participation plan. The notification procedures include the following:

- Draft documents prepared by staff and reviewed by Study Team
- Notice posted six (6) days before public meetings to consider draft documents

- Draft documents approved by Policy Committee available for review and comment in the Rock Hill Planning Department for a minimum of 30 days
- Meeting notice posted six (6) days before Policy Committee meetings to consider final documents

In order to continue the success of the public participation process that was initiated through the development of the LRTP, staff will refine public participation/consultation mechanisms and techniques and continue implementation of various activities as a part of an annual review process. Staff will seek input from groups that have been traditionally underserved by existing transportation systems/services, and consider their needs in the development of various plans. Staff will continually analyze the current public participation process relative to Title VI requirements and make revisions, as appropriate. Websites of RFATS partners will be utilized as a source for presenting information and seeking public input.

Responsibility: City of Rock Hill, RFATS communities, SCDOT and potentially, consultant services

Products:

- Citizens Advisory Committee meetings and activities
- Public meetings and community workshops initiating plan updates, proposed plans, and final plans
- Materials and products available for review at Rock Hill City Hall
- Meeting notices, agendas, and public review documents posted on RFATS communities' websites
- Production of an RFATS Annual Report documenting transportation planning activities for the year
- Special meetings, outreach activities associated with LRTP update
- Review and update PPP to identify all required stakeholders
- RFATS website updates
- CAC Annual Report

Schedule:

- Citizens Advisory Committee meetings – quarterly
- RFATS annual progress report – August, 2009
- Coordinate with CATS public outreach/ marketing on 82X bus service – quarterly
- Update website information – monthly
- Public review of plans and projects – as needed
- CAC Annual Report – January, 2010

Funding:

SOURCE	SHARE	AMOUNT
Local (Rock Hill/York Co.)	20%	\$ 5,000
Federal (FHWA-PL)	80%	\$20,000
State (SCDOT)		
Federal (FHWA-SPR)		
TOTAL	100%	\$25,000

**E. MPO CONSULTANT SERVICES**

Purpose: To provide support to RFATS for MPO planning products and to supplement staff services in order to meet MPO requirements.

Prior Work: Consultant services were used to supplement MPO staff resources during the development of the 2035 LRTP and Air Quality Conformity Report. In addition, consultant services are being used for short-range planning activities as needed.

Scope/Work: Specific tasks and assignments will be determined based on a work plan developed by RFATS staff. Project management consultant work activities may include assistance with management/maintenance of the Metrolina model; transit initiatives; and other special studies.

Responsibility: Consultant work activities will be authorized and coordinated by City of Rock Hill staff. Study Team and Policy Committee members will be kept apprised of the consultant's work activities.

Products: Consultant services will assist in the successful completion of RFATS reports and studies identified in the UPWP. The key work product for the 2009-10 UPWP will be an update to the 2004 Congestion Management Study and thoroughfare and sub-area planning in high growth areas.

Schedule: Work tasks and schedule to be determined by RFATS staff and Study Team

Funding: Local match will be provided by RFATS local government partners based on their pro-rata population make-up of the Study Area. The partners include: City of Rock Hill, York County, Town of Ft. Mill, City of Tega Cay, and the Catawba Indian Nation.

SOURCE	SHARE	AMOUNT
Local (Rock Hill + Partners)	20%	\$20,000
Federal (FHWA-PL)	80%	\$80,000
State (SCDOT)	NA	
(Federal (FHWA-SPR)	NA	
TOTAL (PL/Local)	100%	\$100,000

## SUMMARY OF COSTS – RFATS UPWP FY 2009-10

WORK TASK(S)	PL FUNDS/5303		SCDOT		FHWA		FTA		TOTAL
	LOCAL	FEDERAL	STATE	FEDERAL	STATE	FEDERAL	LOCAL	FEDERAL	
A. Administration	\$10,000	\$40,000							\$50,000
B-1 Travel Monitoring	\$2,000	\$8,000							\$10,000
B-2 Land Use / Socio-Economic Data	\$5,000	\$20,000							\$25,000
C-1 Long Range Planning	\$8,000	\$32,000							\$40,000
C-2 Air Quality Planning	\$8,000	\$32,000							\$40,000
C-3 Short Range Planning	\$14,000	\$56,000							\$70,000
C-4 TIP	\$4,000	\$16,000							(1) \$20,000
C-5 Mapping	\$1,000	\$4,000							\$5,000
C-6 Multi-Modal Planning	6,000	24,000							\$30,000
C-6 Multi-Modal Planning (SMTF)			\$105,000					\$110,540	(2) \$215,540
D. Public Participation Process	\$5,000	\$20,000							\$25,000
E. MPO Consultant Services		(3) \$80,000					(3) \$20,000		(3) \$100,000
<b>TOTAL</b>	<b>\$63,000</b>	<b>\$332,000</b>							<b>\$415,000</b>

[1] Includes Traffic Engineering Consulting Services - Traffic Commission.

[2] SMTF Grant (match to FTA 5307 Grant Funds) - Rock Hill Express / York County Access. FTA 5307 Grant Funds/match. Amount not included in UPWP totals.

[3] General Consultant Services - Program support - Local Cash Match to be divided among MPO local govts. Based on population % of RFATS Study Area.

**TABLE I – AGENCY PARTICIPATION**

<b>WORK TASK(S)</b>	<b>RFATS</b>	<b>FHWA</b>	<b>FTA</b>	<b>SCDOT</b>	<b>TOTAL</b>
A. Administration	\$10,000	\$40,000			\$50,000
B-1 Travel Monitoring	\$2,000	\$8,000			\$10,000
B-2 Land Use / Socio Economic	\$5,000	\$20,000			\$25,000
C-1 Long Range Planning	\$8,000	\$32,000			\$40,000
C-2 Air Quality Planning	\$8,000	\$32,000			\$40,000
C-3 Short Range Planning	\$14,000	\$56,000			(3)\$70,000
C-4 TIP	\$4,000	\$16,000			\$20,000
C-5 Mapping	\$1,000	\$4,000			\$5,000
C-6 Multi-Modal Planning	\$6,000	\$24,000			\$30,000
C-6 Multi-Modal Planning (SMTF)			(2) \$110,540	(2) \$105,00	(2) 215,540
D. Public Participation Process	\$5,000	\$20,000			\$25,000
E. MPO Consultant Services	\$20,000	\$80,000			(1) \$100,000
<b>TOTAL</b>	<b>\$83,000</b>	<b>\$332,000</b>			<b>\$415,000</b>

[1] *General Consultant Services - Program support - Local Cash Match to be divided among MPO local govts. Based on population % of RFATS Study Area.*

[2] *SMTF Grant (match to FTA 5307 Grant Funds) - R.Hill Express/York County Access. FTA 5307 Grant Funds/match. Amount not included in UPWP totals.*

[3] *Includes Traffic Engineering Consulting Services - Traffic Commission.*

# RFATS

Rock Hill-Fort Mill Area Transportation Study

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## CERTIFICATION OF THE ROCK HILL-FT. MILL AREA TRANSPORTATION STUDY PLANNING PROCESS

*Be it known to all that the below signee does hereby endorse and certify the Planning Process for the Rock Hill-Ft. Mill Area Transportation Study (RFATS), and further certifies that this Planning Process addresses the major issues facing the area and is being conducted in accordance with the requirements of: 23 U.S.C. 134, and the applicable regulations; Section 174 and 176 (c) and (d) of the Clean Air Act (42 U.S.C. 7504, 7506 (c) and (d); 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; Section 1101(b) of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users of 2005 (Pub. L. 109-59) and 49 CFR Part 26 regarding the involvement of disadvantaged business enterprise in FHWA and FTA funded planning projects and provisions of the Americans with Disabilities Act and US DOT regulations "Transportation for Individuals with Disabilities" (49 CFR Parts 27, 37, and 38).*

ATTEST:

APPROVED:

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Frances M. Thomas, Secretary

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Doug Echols, Chairman

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_