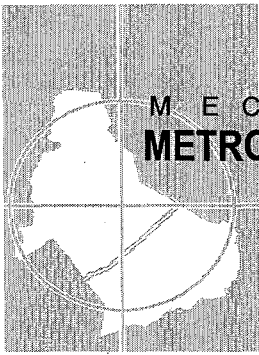


**FY 2011
Unified Planning Work Program**

**Mecklenburg-Union
Metropolitan Planning Organization**

**Approved by the
Mecklenburg-Union
Metropolitan Planning Organization
May 19, 2010**



M E C K L E N B U R G - U N I O N
METROPOLITAN PLANNING ORGANIZATION

600 East Fourth Street
Charlotte, North Carolina 28202-2853
704-336-2205
www.mumpo.org

CHARLOTTE

May 24, 2010

CORNELIUS

DAVIDSON

HUNTERSVILLE

INDIAN TRAIL

MATTHEWS

MECKLENBURG
COUNTY

MINT HILL

MONROE

NCDOT

PINEVILLE

STALLINGS

UNION
COUNTY

WAXHAW

WEDDINGTON

WESLEY CHAPEL

WINGATE

Ms. Miriam Perry, Director
Public Transportation Division
N.C. Department of Transportation
1550 Mail Service Center
Raleigh, NC 27699-1550
Attn: Jeff Crouchley

Dear Ms. Perry:

Enclosed for approval are an original and two (2) copies of the Mecklenburg-Union Urban Area Unified Planning Work Program (UPWP) for FY 2011. The UPWP also serves as the Urban Area's Metropolitan Planning Program grant application requesting Federal Transit Administration Section 5303 planning funds. A complete description and budget of planning activities is included in the UPWP. The original resolution and two copies are enclosed.

The Federal Transit Administration (FTA) grant amount requested is our full allocation of \$345,696. This will be matched with local funds in the amount of \$43,212. The local match will be provided by the City of Charlotte. The Charlotte Area Transit System is the designated grant recipient for Section 5303 grant funds.

Sincerely:

Ted Biggers, Chairman

Enclosures: Adopted FY2011 PWP

cc: Mike Bruff, P.E, Manager, Transportation Planning Branch (1 copy)
Dr. Yvette G. Taylor, FTA Region IV Administrator
Jack Flaherty, Public Transportation Division
Chad Howell, Charlotte Department of Transportation

FTA TASK NARRATIVE TABLE

Template

HEADING	MPO RESPONSE
<i>1- MPO</i>	Mecklenburg-Union
<i>2 -FTA Code</i>	44.22.00
<i>3- Task Code</i>	II-9
<i>4- Title</i>	Travel Time Studies
<i>5- Task Objective</i>	The funds will be used to purchase historical travel time data and dynamic route travel times from INRIX. The data will be used to calculate average travel times and speeds along major corridors; to calibrate the modeled speeds; and to monitor congestion for MUMPO's CMP. Work in this category will complement CMP work conducted in task code V-1.
<i>6 - Tangible Product Expected</i>	Historic travel time data and dynamic route travel times.
<i>7- Expected Completion</i>	June 2011
<i>8 - Previous Work</i>	Collection of travel time data on major/minor arterials from Charlotte CBD to MUMPO limits.
<i>9 - Prior FTA Funds</i>	\$00.00
<i>10 - Relationship</i>	Work in this category will support work to be completed for the congestion management process (V-1).
<i>11 -Agency</i>	Charlotte Department of Transportation

12- HPR - Highway - NCDOT 20%	
13- HPR - Highway - F11WA 80%	13.
14- Section 104 (f) PI, Local 20%	14.
15- Section 104 (f) P I FHWA 80%	15.
16- Section 5303 Local 10%	1500
17- Section 5303 NCDOT 10%	1500
18- Section 5303 FTA 80%	12000
19- Section 5307 Transit - Local 10%	19.
20- Section 5307 Transit - NCDOT 10%	20.
21- Section 5307 Transit - FTA 80%	21.
22- Additional Funds - Local 100%	22.

FTA TASK NARRATIVE TABLE

Template

HEADING	MPO RESPONSE
<i>1- MPO</i>	Mecklenburg-Union
<i>2 -FTA Code</i>	44.23.01
<i>3- Task Code</i>	III-3
<i>4- Title</i>	Travel Model Updates
<i>5- Task Objective</i>	<p>Funds expended in this category will be devoted to the following annual model maintenance tasks: incorporate updated model data into the working model set; develop improved algorithms and scripts to enhance applications of the model; develop tools to produce a "user-friendly" model for end users and incorporate improvements resulting from the above; model documentation; provide training to NCDOT and SCDOT technical staff. Sub-tasks are outlined in the FY11 Metrolina Regional Travel Demand Model Work Plan. Also, Consultant services will be used to continue refinements and improvements to the Transit Mode of the Travel Demand Model. Travel forecasts and ridership projections for use in updating the Transit Corridor System Plan and in general Transit System Planning will also be performed.</p>
<i>6 - Tangible Product Expected</i>	On-going activities related to model maintenance; travel forecasts and ridership projections.
<i>7- Expected Completion</i>	June 2011

8 - <i>Previous Work</i>	Funds expended in this category were devoted to annual model maintenance, the incorporation of updated model data into the working model set; development of improved algorithms and scripts that enhanced applications of the model; development of tools to produce a "user-friendly" model for end users and the incorporation of improvements resulting from the above. Also, model documentation and training to NCDOT and SCDOT technical staff.
9 - <i>Prior FTA Funds</i>	\$140,711
10 - <i>Relationship</i>	
11 - <i>Agency</i>	Charlotte Department of Transportation
12- <i>HPR - Highway - NCDOT 20%</i>	12.
13- <i>HPR - Highway - F11WA 80%</i>	13.
14- <i>Section 104 (f) PI, Local 20%</i>	21803
15- <i>Section 104 (f) P I FHWA 80%</i>	87222
16- <i>Section 5303 Local 10%</i>	16709
17- <i>Section 5303 NCDOT 10%</i>	16709
18- <i>Section 5303 FTA 80%</i>	133672
19- <i>Section 5307 Transit - Local 10%</i>	19.
20- <i>Section 5307 Transit - NCDOT 10%</i>	20.
21- <i>Section 5307 Transit - FTA 80%</i>	21.
22- <i>Additional Funds - Local 100%</i>	22.

FTA TASK NARRATIVE TABLE

Template

HEADING	MPO RESPONSE
1- MPO	Mecklenburg-Union
2 -FTA Code	44.23.01
3- Task Code	III-4
4- Title	Travel Surveys
5- Task Objective	<p>A household travel survey will be conducted by an outside contractor over the span of FY11 and FY12. The objective of the data collection effort is to provide a statistically valid observation of the unique travel demand in the Metrolina Region for all modes of travel. This information will be the basis for the design, estimation, and calibration of a set of region-wide travel demand models used to project future demand for travel in the region. The survey gathers household- and person-level travel data, such as the number, length, and purpose of trips, as well as other trip details including mode of transportation and the time of day each trip.</p> <p>Funding will also be used for additional technical services needed to aid in the:</p> <ul style="list-style-type: none"> • Development of the scope of services for the surveys, including but not limited to the household travel survey • Analysis of survey data • Updates to the trip generation program • Updates to the trip distribution program

6 - <i>Tangible Product Expected</i>	Household travel surveys and analysis of said surveys.
7- <i>Expected Completion</i>	June 2011
8 - <i>Previous Work</i>	Small sample surveys for use in updating baseline data for home interview survey, external station surveys, workplace surveys, and vehicle classification counts; CATS on-board survey.
9 - <i>Prior FTA Funds</i>	\$132,803
10 - <i>Relationship</i>	
11 - <i>Agency</i>	Charlotte Department of Transportation
12- <i>HPR - Highway - NCDOT 20%</i>	12.
13- <i>HPR - Highway - F11WA 80%</i>	13.
14- <i>Section 104 (f) PI, Local 20%</i>	5800
15- <i>Section 104 (f) P I FHWA 80%</i>	23200
16- <i>Section 5303 Local 10%</i>	2900
17- <i>Section 5303 NCDOT 10%</i>	2900
18- <i>Section 5303 FTA 80%</i>	23200
19- <i>Section 5307 Transit - Local 10%</i>	19.
20- <i>Section 5307 Transit - NCDOT 10%</i>	20.
21- <i>Section 5307 Transit - FTA 80%</i>	21.
22- <i>Additional Funds - Local 100%</i>	22.

FTA TASK NARRATIVE TABLE

Template

HEADING	MPO RESPONSE
<i>1- MPO</i>	Mecklenburg-Union
<i>2 -FTA Code</i>	44.23.01
<i>3- Task Code</i>	III-6
<i>4- Title</i>	Forecasts of Future Travel Patterns
<i>5- Task Objective</i>	Funding will be used to begin the update of county level economic and demographic totals. This will provide needed information for verifying the aggregated TAZ level base year data and developing TAZ level future year projections. This task will be performed by an outside contractor and will continue into FY12.
<i>6 - Tangible Product Expected</i>	Partial update of county level economic and demographic totals.
<i>7- Expected Completion</i>	Ongoing
<i>8 - Previous Work</i>	Forecasted planning data was used as an input to the travel forecast models.
<i>9 - Prior FTA Funds</i>	\$40,836
<i>10 - Relationship</i>	
<i>11 -Agency</i>	Charlotte Department of Transportation
<i>12- HPR - Highway - NCDOT 20%</i>	12.
<i>13- HPR - Highway - F11WA 80%</i>	13.
<i>14- Section 104 (f) PI, Local 20%</i>	13650

15- Section 104 (f) P I FHWA 80%	54600
16- Section 5303 Local 10%	3750
17- Section 5303 NCDOT 10%	3750
18- Section 5303 FTA 80%	30000
19- Section 5307 Transit - Local 10%	19.
20- Section 5307 Transit - NCDOT 10%	20.
21- Section 5307 Transit - FTA 80%	21.
22- Additional Funds - Local 100%	22.

FTA TASK NARRATIVE TABLE

Template

HEADING	MPO RESPONSE
1- MPO	Mecklenburg-Union
2 -FTA Code	44.23.01
3- Task Code	IV-3
4- Title	Transit Element of the LRTP
5- Task Objective	CATS will continue to monitor and update the Transit Corridor System Plan including: evaluation of ridership forecasts, developing/refining financial projections, monitoring existing services and trends, and communicating to the public.
6 - Tangible Product Expected	Financial projections
7- Expected Completion	June 2011; ongoing
8 - Previous Work	Preparation of the transit element of the LRTP; transit financial plan update; Corridor System Plan update; park & ride counts; ridership sampling; Countywide Transit Services Plan update.
9 - Prior FTA Funds	\$19,119
10 - Relationship	Development of CATS' updated Corridor System Plan
11 -Agency	Charlotte Area Transit System
12- HPR - Highway - NCDOT 20%	12.
13- HPR - Highway - F11WA 80%	13.

<i>14- Section 104 (f) PI, Local 20%</i>	14.
<i>15- Section 104 (f) P I FHWA 80%</i>	
<i>16- Section 5303 Local 10%</i>	15000
<i>17- Section 5303 NCDOT 10%</i>	1500
<i>18- Section 5303 FTA 80%</i>	120000
<i>19- Section 5307 Transit - Local 10%</i>	19.
<i>20- Section 5307 Transit - NCDOT 10%</i>	20.
<i>21- Section 5307 Transit - FTA 80%</i>	21.
<i>22- Additional Funds - Local 100%</i>	22.

FTA TASK NARRATIVE TABLE

Template

HEADING	MPO RESPONSE
1- MPO	Mecklenburg-Union
2 -FTA Code	44.25.00
3- Task Code	V-4
4- Title	Transportation Improvement Program
5- Task Objective	Development of transit-related components of the 2012-2018 TIP.
6 - Tangible Product Expected	Transit component of the TIP
7- Expected Completion	June 2011
8 - Previous Work	
9 - Prior FTA Funds	\$00.00
10 - Relationship	
11 -Agency	Charlotte Area Transit System
12- HPR - Highway - NCDOT 20%	12.
13- HPR - Highway - F11WA 80%	13.
14- Section 104 (f) PI, Local 20%	4000
15- Section 104 (f) P I FHWA 80%	16000
16- Section 5303 Local 10%	1250
17- Section 5303 NCDOT 10%	1250
18- Section 5303 FTA 80%	10000
19- Section 5307 Transit - Local 10%	19.

<i>20- Section 5307 Transit - NCDOT 10%</i>	20.
<i>21- Section 5307 Transit - FTA 80%</i>	21.
<i>22- Additional Funds - Local 100%</i>	22.

FTA TASK NARRATIVE TABLE

Template

HEADING	MPO RESPONSE
1- MPO	Mecklenburg-Union
2 -FTA Code	44.21.00
3- Task Code	VI-12
4- Title	Management & Operations
5- Task Objective	Support CATS participation in the metropolitan transportation planning process
6 - Tangible Product Expected	Ongoing
7- Expected Completion	Ongoing
8 - Previous Work	
9 - Prior FTA Funds	\$00.00
10 - Relationship	Work is related to all the various tasks undertaken to implement the metropolitan transportation planning process.
11 -Agency	Charlotte Area Transit System
12- HPR - Highway - NCDOT 20%	12.
13- HPR - Highway - F11WA 80%	13.
14- Section 104 (f) PI, Local 20%	66724
15- Section 104 (f) P I FHWA 80%	266897
16- Section 5303 Local 10%	2103
17- Section 5303 NCDOT 10%	2103
18- Section 5303 FTA 80%	16824

<i>19- Section 5307 Transit - Local 10%</i>	19.
<i>20- Section 5307 Transit - NCDOT 10%</i>	20.
<i>21- Section 5307 Transit - FTA 80%</i>	21.
<i>22- Additional Funds - Local 100%</i>	22.

Mecklenburg-Union Urban Area
 FY 2011 Unified Planning Work Program
 Funding Sources and Projects

TASK CODE	TASK DESCRIPTION	SPR Highway		SEC. 104(f) PL Highway/Transit		SECTION 5303 Transit/Highway			STP-DA		LOCAL	TASK FUNDING SUMMARY			TOTAL
		NCDOT	FHWA	LOCAL	FHWA	LOCAL	NCDOT	FTA	LOCAL	FHWA	LOCAL	STATE	FEDERAL		
		20%	80%	20%	80%	10%	10%	80%	20%	80%					
II. CONTINUING TRANSPORTATION PLANNING															
II-1	Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$42,000	\$168,000	\$0	\$42,000	\$0	\$168,000	\$210,000
II-4	Traffic Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000	\$80,000	\$0	\$20,000	\$0	\$80,000	\$100,000
II-6	Dwelling Unit, Population & Employment Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,750	\$51,000	\$0	\$12,750	\$0	\$51,000	\$63,750
II-9	Travel Time Studies	\$0	\$0	\$0	\$0	\$1,500	\$1,500	\$12,000	\$3,000	\$12,000	\$0	\$4,500	\$1,500	\$24,000	\$30,000
II-10	GIS Analysis & Mapping	\$6,875	\$27,500	\$0	\$0	\$0	\$0	\$0	\$7,500	\$30,000	\$0	\$7,500	\$6,875	\$57,500	\$71,875
II-12	Bicycle & Pedestrian Facilities Inventory	\$2,000	\$8,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,000	\$8,000	\$10,000
III. TRAVEL DEMAND MODEL															
III-1	Collection of Base Year Data	\$0	\$0	\$36,050	\$144,200	\$0	\$0	\$0	\$0	\$0	\$0	\$36,050	\$0	\$144,200	\$180,250
III-2	Collection of Network Data	\$0	\$0	\$7,000	\$28,000	\$0	\$0	\$0	\$0	\$0	\$0	\$7,000	\$0	\$28,000	\$35,000
III-3	Travel Model Updates	\$0	\$0	\$21,803	\$87,212	\$16,709	\$16,709	\$133,672	\$0	\$0	\$0	\$38,512	\$16,709	\$220,884	\$276,105
III-4	Travel Surveys	\$0	\$0	\$5,800	\$23,200	\$2,900	\$2,900	\$23,200	\$0	\$0	\$0	\$8,700	\$2,900	\$46,400	\$58,000
III-5	Forecast of Data to Horizon Years	\$1,000	\$4,000	\$4,000	\$16,000	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000	\$1,000	\$20,000	\$25,000
III-6	Forecasts of Future Travel Patterns	\$250	\$1,000	\$13,650	\$54,600	\$3,750	\$3,750	\$30,000	\$1,250	\$5,000	\$0	\$18,650	\$4,000	\$90,600	\$113,250
IV. LONG-RANGE TRANSPORTATION PLANNING															
IV-1	Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000	\$40,000	\$0	\$10,000	\$0	\$40,000	\$50,000
IV-2	Highway Element of LRTP	\$750	\$3,000	\$0	\$0	\$0	\$0	\$0	\$10,000	\$40,000	\$0	\$10,000	\$750	\$43,000	\$53,750
IV-3	Transit Element of LRTP	\$625	\$2,500	\$0	\$0	\$15,000	\$15,000	\$120,000	\$0	\$0	\$0	\$15,000	\$15,625	\$122,500	\$153,125
IV-7	Rail Element of LRTP	\$500	\$2,000	\$0	\$0	\$0	\$0	\$0	\$4,000	\$16,000	\$0	\$4,000	\$500	\$18,000	\$22,500
IV-8	Freight Movement/Mobility Element of LRTP	\$250	\$1,000	\$0	\$0	\$0	\$0	\$0	\$4,000	\$16,000	\$0	\$4,000	\$250	\$17,000	\$21,250
IV-9	Financial Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000	\$16,000	\$0	\$4,000	\$0	\$16,000	\$20,000
V. CONTINUING PROGRAMS															
V-1	Congestion Management Strategies	\$500	\$2,000	\$0	\$0	\$0	\$0	\$0	\$62,500	\$250,000	\$0	\$62,500	\$500	\$252,000	\$315,000
V-2	Air Quality/Conformity Analysis	\$1,250	\$5,000	\$8,000	\$32,000	\$0	\$0	\$0	\$0	\$0	\$0	\$8,000	\$1,250	\$37,000	\$46,250
V-3	Planning Work Program	\$250	\$1,000	\$0	\$0	\$0	\$0	\$0	\$2,000	\$8,000	\$0	\$2,000	\$250	\$9,000	\$11,250
V-4	Transportation Improvement Program	\$750	\$3,000	\$4,000	\$16,000	\$1,250	\$1,250	\$10,000	\$0	\$0	\$0	\$5,250	\$2,000	\$29,000	\$36,250
VI. ADMINISTRATION															
VI-2	Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000	\$40,000	\$0	\$10,000	\$0	\$40,000	\$50,000
VI-6	Public Involvement	\$500	\$2,000	\$0	\$0	\$0	\$0	\$0	\$4,000	\$16,000	\$0	\$4,000	\$500	\$18,000	\$22,500
VI-9	Environ. Analysis & Pre-TIP Planning	\$500	\$2,000	\$5,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000	\$500	\$22,000	\$27,500
VI-10	Corridor Protection and Special Studies	\$500	\$2,000	\$29,305	\$117,220	\$0	\$0	\$0	\$3,000	\$12,000	\$0	\$32,305	\$500	\$14,000	\$164,025
VI-11	Regional or Statewide Planning	\$1,500	\$6,000	\$5,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000	\$1,500	\$26,000	\$32,500
VI-12	Management and Operations	\$1,500	\$6,000	\$66,724	\$266,897	\$2,103	\$2,103	\$16,824	\$0	\$0	\$0	\$68,827	\$3,603	\$289,721	\$362,151
TOTALS		\$19,500	\$78,000	\$206,332	\$825,329	\$43,212	\$43,212	\$345,696	\$200,000	\$800,000	\$0	\$449,544	\$62,712	\$1,931,805	\$2,561,281

**MECKLENBURG - UNION
METROPOLITAN PLANNING ORGANIZATION
FY 11 UPWP PL FUNDS (80 percent portion)**

TASK CODE	TASK DESCRIPTION	AGENCY OR JURISDICTION					TOTAL
		CDOT	C-MPC	Cornelius	Davidson	Huntersville	
II. Continuing Transportation		\$0	\$0	\$0	\$0	\$0	\$0
II-1	Traffic Volume Counts	\$0					\$0
II-3	Street System Changes	\$0					\$0
II-4	Traffic Accidents	\$0					\$0
II-6	Dwelling Unit, Pop. & Emplmnt Change	\$0					\$0
II-8	Vehicle Occupancy Rates	\$0					\$0
II-9	Travel Time Studies	\$0					\$0
II-10	GIS Analysis & Mapping	\$0					\$0
II-11	Parking Inventory	\$0					\$0
II-12	Bicycle & Pedestrian Facilities Inventory	\$0					\$0
III. Travel Demand Model		\$353,212	\$0	\$0	\$0	\$0	\$353,212
III-1	Collection Base Year Data	\$144,200					\$144,200
III-2	Collection of Network Data	\$28,000					\$28,000
III-3	Travel Model Updates	\$87,212					\$87,212
III-4	Travel Surveys	\$23,200					\$23,200
III-5	Forecast of Data to Horizon Years	\$16,000					\$16,000
III-6	Forecast of Future Travel Patterns	\$54,600					\$54,600
IV. Long-Range Transportation Plan		\$0	\$0	\$0	\$0	\$0	\$0
IV-1	Community Goals & Objectives	\$0					\$0
IV-2	Highway Element of the LRTP	\$0					\$0
IV-3	Transit Element of the LRTP	\$0					\$0
IV-7	Rail Element of the LRTP	\$0					\$0
IV-8	Freight Movement/Mobility Elem of LRTP	\$0					\$0
IV-9	Financial Planning	\$0					\$0
V. Continuing Programs		\$48,000	\$0	\$0	\$0	\$0	\$48,000
V-1	Congestion Management Strategies	\$0					\$0
V-2	Air Quality/Conformity Analysis	\$32,000					\$32,000
V-3	Planning Work Program	\$0					\$0
V-4	TIP	\$16,000					\$16,000
VI. Administration		\$228,717	\$100,000	\$21,600	\$25,000	\$23,800	\$25,000
VI-2	Environmental Justice	\$0					\$0
VI-6	Public Involvement	\$0					\$0
VI-9	Environ Analysis & Pre-TIP Planning	\$20,000					\$20,000
VI-10	Corridor Protection & Special Studies	\$21,820		\$21,600	\$25,000	\$23,800	\$117,220
VI-11	Regional or Statewide Planning	\$20,000					\$20,000
VI-12	Management and Operations	\$166,897	\$100,000				\$266,897
TOTALS		\$629,929	\$100,000	\$21,600	\$25,000	\$23,800	\$25,000

Anticipated DBE Contracting Opportunities for FY 2011

Name of MPO: Mecklenburg-Union

Check here if there are no anticipated DBE opportunities

Person Completing Form: Robert Cook

Telephone Number: area code (704)-948-9132

Prospectus Task Code	Prospectus Description	Name of Agency Contracting Out	Type of Contracting Opportunity (Consultant, etc.)	Federal Funds to be Contracted Out	Total Funds to be Contracted Out

► **Note:** This form must be submitted to NCDOT-PTD even if you anticipate no DBE Contracting Opportunities. Note “No contracting opportunities” on the table if you do not anticipate having any contracting opportunities.

RESOLUTION

APPROVING THE FY 2011 UNIFIED PLANNING WORK PROGRAM OF THE MECKLENBURG-UNION METROPOLITAN PLANNING ORGANIZATION

A motion was made by MPO Member John Ashcroft and seconded by MPO Member Sarah McAuliffe for the adoption of the following resolution, and upon being put to a vote was duly adopted.


WHEREAS, a comprehensive and continuing transportation planning program must be carried out cooperatively in order to ensure that funds for transportation projects are effectively allocated to the Mecklenburg-Union Urban Area; and

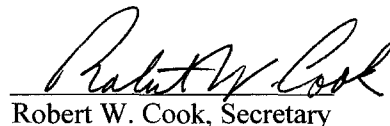
WHEREAS, the City of Charlotte has been designated as the recipient of Federal Transit Administration Metropolitan Planning Program funds; and

WHEREAS, members of the Mecklenburg-Union Metropolitan Planning Organization agree that the Unified Planning Work Program will effectively advance transportation planning for FY 2011.

NOW, THEREFORE BE IT RESOLVED that the Mecklenburg-Union Metropolitan Planning Organization hereby endorses the FY 2011 Unified Planning Work Program for the Mecklenburg-Union Metropolitan Planning Organization.

I, Ted Biggers, Chairman of the Mecklenburg-Union Metropolitan Planning Organization, do hereby certify that the above is a true and correct copy of an excerpt from the minutes of a meeting of the Mecklenburg-Union Metropolitan Planning Organization, duly held on this the 19th day of May, 2010.


Ted Biggers, Chairman


Robert W. Cook, Secretary

Mecklenburg-Union Metropolitan Planning Organization

Task Descriptions

FY 11 Unified Planning Work Program

The following provides descriptions of the work proposed to be performed during FY 11.

II Continuing Transportation

II-1 Traffic Volume Counts

Funds allocated in this category will support collecting, processing, and analyzing traffic volume count data to support the travel demand model. Specifically, the following tasks will be conducted:

- 48 hour volume data will be collected at 550 – 700 model locations
- Vehicle occupancy studies for traffic entering CBD
- Turning movement count data at signalized intersections (used as a back check and additional layer of quality control for the model)
- Vehicle classification studies
- Travel time studies
- Pursuit of six permanent count station locations

Funding source: PL Funds: STP-DA supplement

II-4 Traffic Accidents

PL funds will be used to process and analyze police crash reports. The accident data will be used to analyze streets and intersections to support project development (long range projects and spot safety improvements).

Funding source: PL Funds: STP-DA supplement

II-6 Dwelling Unit, Population & Employment Changes

Funds in this category will support land development review and coordination activities.

Funding source: PL Funds: STP-DA supplement

II-9 Travel Time Studies

The funds will be used to purchase historical travel time data and dynamic route travel times from INRIX. The data will be used to calculate average travel times and speeds along major corridors; to calibrate the modeled speeds; and to monitor congestion for MUMPO's CMP. Work in this category will complement CMP work conducted in task code V-1.

Funding sources: PL Funds: STP-DA supplement and Section 5303

II-10 GIS Analysis & Mapping

Funds in this category will be applied to anticipated substantial work related to the preparation of the Comprehensive Transportation Plan (CTP).

Funding source: PL Funds: STP-DA supplement

III Travel Demand Model

III-1 Collection of Base Year Data

2010 data including but not limited to population, households, mean income, employment, and school enrollment will be collected. This information is one of the primary inputs into the Metrolina Regional Travel Demand Model. Collection of this data is expected to be outsourced to a contractor. Sources for the data include, but are not limited to, the 2010 Census, InfoGroup (to be purchased), Dun & Bradstreet, and telephone surveys (to be outsourced to a contractor).

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Funding is also included for the purchase of detailed freight data. InSight is currently being considered as a data source.

Funding source: PL Funds

III-2 Collection of Network Data

2010 roadway network data and transit route data including but not limited to posted speed limits, number of lanes, traffic signal locations, route locations, headways, park and ride lot locations, and parking costs will be collected by staff.

2010 vehicle classification counts will be collected by an outside contractor. Vehicle classification counts provide data necessary for model calibration and validation. Data provided includes number of vehicles by type and time of day as well as point location speed of each vehicle.

Funding source: PL Funds

III-3 Travel Model Updates

CATS & CDOT: Funds expended in this category will be devoted to the following annual model maintenance tasks: incorporate updated model data into the working model set; develop improved algorithms and scripts to enhance applications of the model; develop tools to produce a "user-friendly" model for end users and incorporate improvements resulting from the above; model documentation; provide training to NCDOT and SCDOT technical staff. Sub-tasks are outlined in the FY11 Metrolina Regional Travel Demand Model Work Plan. Also, Consultant services will be used to continue refinements and improvements to the Transit Mode of the Travel Demand Model. Travel forecasts and ridership projections for use in updating the Transit Corridor System Plan and in general Transit System Planning will also be performed.

Funding source: PL & Section 5303 Funds

III-4 Travel Survey

A household travel survey will be conducted by an outside contractor over the span of FY11 and FY12. The objective of the data collection effort is to provide a statistically valid observation of the unique travel demand in the Metrolina Region for all modes of travel. This information will be the basis for the design, estimation, and calibration of a set of region-wide travel demand models used to project future demand for travel in the region. The survey gathers household- and person-level travel data, such as the number, length, and purpose of trips, as well as other trip details including mode of transportation and the time of day each trip.

Funding will also be used for additional technical services needed to aid in the:

- Development of the scope of services for the surveys, including but not limited to the household travel survey
- Analysis of survey data
- Updates to the trip generation program
- Updates to the trip distribution program

Funding sources: PL & Section 5303 Funds

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III-5 Forecast of Data to Horizon Years

Funding will be used to begin the update of county level economic and demographic totals. This will provide needed information for verifying the aggregated TAZ level base year data and developing TAZ level future year projections. This task will be performed by an outside contractor and will continue into FY12.

Funding source: PL Funds

III-6 Forecasts of Future Travel Patterns

This task covers the various applications of the regional travel demand model including but not limited to traditional highway travel forecasts, managed lanes forecasts, and transit corridor forecasts.

State of the practice hardware and software are a necessity for this task. As such, funding for the following is also included:

- TransCAD maintenance fees for licenses-\$7,000
- TransModeler maintenance fees for licenses-\$3,000
- VISSIM maintenance fees for licenses-\$2,000
- Sustainable hardware for the Metrolina Regional Travel Demand Model-\$4,000

Funding sources: PL Funds, PL Funds: STP-DA supplement & Section 5303 Funds

IV Long-Range Transportation Plan

IV-1 Community Goals & Objectives

The Technical Coordinating Committee has committed to starting work on the next LRTP during FY 11. Work in this category will focus on developing/updating goals and objectives that will guide the development of the plan.

Funding source: PL Funds: STP-DA supplement

IV-2 Highway Element

Work in this category will focus on:

- Assessing the effectiveness of the current roadway project ranking methodology
- If necessary, updating and/or preparing a new roadway project ranking methodology

Funding source: PL Funds: STP-DA supplement

IV-3 Transit Element

CATS will continue to monitor and update the Transit Corridor System Plan including: evaluation of ridership forecasts, developing/refining financial projections, monitoring existing services and trends, and communicating to the public.

Funding source: 5303 Funds

IV-7 Rail Element

Work in this category will focus on continuing efforts related to the Charlotte Rail Infrastructure and Safety Program (CRISP).

Funding source: PL Funds: STP-DA supplement

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IV-8 Freight Movement/Mobility Element

MUMPO will participate in a regional mobility study to be led by the Centralina Council of Governments.

Funding source: PL Funds: STP-DA supplement

IV-9 Financial Planning

In light of the Technical Coordinating Committee's commitment to begin work on an updated LRTP in FY 11, the proposed funding will support preliminary financial planning efforts.

Funding source: PL Funds: STP-DA supplement

V Continuing Programs

V-1 Congestion Management Strategies

MUMPO will continue to refine its congestion management process (CMP). Work will begin on the following tasks:

- Development of a data collection program
- Refinement of the definition of congestion
- Development of a CMP monitoring and reporting program
- Prioritization of identified congested corridors

Work undertaken in other task codes may be related to the CMP, e.g. II-9.

Funding source: PL Funds: STP-DA supplement

V-2 Air Quality/Conformity Analysis

MUMPO's planning area is classified as non-attainment for ozone and Mecklenburg County is classified as maintenance for carbon monoxide. Some of the potential tasks associated with the category in FY 11 are:

- Participation in interagency consultation process as part of SIP development and conformity determination development.
- Providing assistance to NCDENR in developing and maintaining mobile source emission inventories.
- Performing analysis and approving conformity determinations, at least one of which will be needed during FY 11.
- Preparation of the air quality conformity determination report.

Funding source: PL Funds

V-3 Planning Work Program

Funds in this category will be used in the annual preparation of UPWP and the previous fiscal year's annual report.

Funding source: PL Funds: STP-DA supplement

V-4 Transportation Improvement Program

Work associated with, but not limited to, amendments to the 2009-2015 TIP, preparation and review of the 2012-2018 TIP and work with NCDOT's Strategic Prioritization of Transportation (SPOT) office.

Funding source: PL Funds & Section 5303 Funds

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VI Administration

VI-2 Environmental Justice

MUMPO will continue to refine its plan to reach out to environmental justice communities through a series of efforts including, but not limited to, the following:

- Preparation of educational material explaining the transportation planning process
- Working with focus groups
- Development of a project impact evaluation methodology
- Development of a public outreach planning process manual

Funding source: PL Funds: STP-DA supplement

VI-6 Public Involvement

MUMPO is committed to meaningful public participation in the regional transportation planning process and undertakes a variety of efforts each fiscal year that require outreach to the public. These efforts include, but are not limited to, the following:

- Long Range Transportation Plan (LRTP),
- Transportation Improvement Program (TIP)
- Unified Planning Work Program (UPWP)
- Comprehensive Transportation Plan (CTP)
- Corridor studies
- Participation in public events sponsored by other agencies

Funding source: PL Funds: STP-DA supplement

VI-9 Environmental Analysis & Pre-TIP Planning

Work in this category will focus on preparation of the Comprehensive Transportation Plan (CTP).

Funding source: PL Funds

VI-10 Corridor Protection & Special Studies

Funds will support:

1. PL local transportation planning efforts:
 - Cornelius: \$21,600 for continued work on its traffic count program, planning for Zion Avenue improvements and support of the MPO process
 - Davidson: \$25,000 for a study of NC 115 and the Potts-Sloan-Beaty corridor
 - Huntersville: \$23,800 for creation of a local traffic count program, preparation of a pedestrian plan and support of the MPO process
 - Indian Trail: \$25,000 for the development of a local transportation plan
2. Various projects (performed in-house or by consultants) to define conceptual alignments of proposed Thoroughfare Plan roadway extensions or realignments
3. Efforts to implement components of the Fast Lanes study
4. Review of the Centralina COG regional transportation planning study recommendations and/or assessment of urbanized area boundary changes on MUMPO
5. Other projects as recommended by the TCC

Funding sources: PL Funds and PL Funds: STP-DA supplement

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VI-11 Regional or Statewide Planning

Funds will support:

- Continued coordination with regional MPO and RPO partners
- Activities associated with the Charlotte Regional Alliance for Transportation (CRAFT)
- Activities associated with the NC Association of MPOs

Funding source: PL Funds

VI-12 Management & Operations

Work performed as outlined in the Prospectus:

- Attending MPO, TCC and Transportation Staff meetings
- Preparation of MPO and TCC agendas
- Preparation of MPO and TCC meeting minutes
- Updating MUMPO's website
- Overall management of the daily functions of MUMPO

Funding source: PL Funds & Section 5303 Funds