

APPENDIX D: Interagency Consultation

- Interagency Consultation Meeting Minutes
- Consensus Plan
- Conformity Process Schedule

Metrolina Region Long-Range Transportation Plan and Conformity Plan

Interagency Consultation (IC) Meeting

November 4, 2010

The following table is a listing of agency comments and follow-up from the 11.4.10 IC meeting

- The items in **red font** represent follow-up actions that will need to be addressed as part of the TIP conformity processes.
- The items highlighted in **yellow** are action items that require a response (the name of the individual responsible for the follow-up is also provided).
- The items in **Green** and marked as **YES** are resolved issues and no further actions required

METROLINA AREA		
Cabarrus Rowan MPO		
FHWA Comments		
I-2304 (12): The STIP shows construction through 2012 and in the LRTP it is shown in the 2025 HY (the project is regionally significant). When will this project be completed?	We believe this project will be complete sometime in 2016 depending on a number of construction variables	There is NCDOT documentation that shows the completion date of this project to be 10/1/13. The 2035 LRTP needs to be amended to show this project in the 2015 HY.
I-3803: The STIP shows construction through 2013 and in the LRTP it is shown in the 2025 HY (the project is regionally	We believe this project will be complete sometime in 2016 depending on a number of construction variables. A portion of this project is 9 lanes and a portion is 10 lanes. We have the project modeled according to the final NCDOT	<div style="background-color: green; color: white; padding: 5px; display: inline-block;">YES</div>

<p>significant). When will this project be completed? Also project descriptions in the LRTP and STIP do not match, please explain</p>	<p>design</p>	
<p>R-2533CC: The STIP shows construction through 2013 and in the LRTP it is shown in the 2025 HY (the project is regionally significant). When will this project be completed?</p>	<p>We believe this project will be complete sometime in 2016 depending on a number of construction variables</p>	<p>YES</p>
<p>R-2246 (16): The STIP shows construction through 2013 and in the LRTP it is shown in the 2025 HY (the project is regionally significant). When will this project be completed? Also project description for R-2246B in the LRTP and STIP do not match, please explain</p>	<p>This project is an advance construction project that is really going to move on a schedule (slower) determined by the City of Concord.</p> <p>The project description's look the same</p>	<p>YES</p>
<p>U-5211: What is meant by "bridge widening"?</p>	<p>This project is essentially adding a turn lane at the bridge</p>	<p>YES</p>
<p>U-4910 (17): The STIP shows construction through 2011 and in the LRTP it is shown in the 2025 HY (the project is not regionally significant). When will this project be</p>	<p>This project is a High Priority Project that will be administered by the City of Concord. Pre-construction work is moving at a slow pace and it is questionable whether funding will be re-authorized in the next version of SAFETEA-LU</p>	<p>YES</p>

completed?		
U-3440 (15): The STIP shows construction through 2013 and in the LRTP it is shown in the 2025 HY (the project is not regionally significant). When will this project be completed?	We believe this project will be complete sometime in 2016 depending on a number of construction variables	YES
U-3459 (23): The STIP shows construction through 2013 and in the LRTP it is shown in the 2025 HY (the project is not regionally significant). When will this project be completed?	We believe this project will be complete sometime in 2016 depending on a number of construction variables	YES
C-5159: Define street improvements	Project includes the installation of traffic channelization islands and turn lanes. This is a CMAQ project	YES
W-5313: Define widening project	This project includes shoulder improvements to Old Beatty Ford Road	YES
W-5314: Define widening project	This project includes the addition of left turn lanes on NC 801.	YES
NCDAQ Comments		
I-2304 is in the 2025 horizon year but all construction is shown completed in 2013. Will this project be open before January 1, 2025?	Yes, this project will be open to traffic after December 31, 2015.	YES
R-2533CC is in the 2025 horizon year but all construction is shown in 2013. Segment CD seems to be on track for a 2035 horizon year as it is currently	We believe the CC project will be complete sometime in 2016 depending on a number of construction variables	YES

unfunded.		
R-2246B is in the 2025 horizon year but all construction is completed by 2013 in the TIP	This project is an advance construction project that is really going to move on a schedule (slower) determined by the City of Concord. This project will be open to traffic after December 31, 2015.	YES
U-4910 is in the 2025 horizon year but all construction is shown completed in 2011 for the TIP	This project is a High Priority Project that will be administered by the City of Concord. Pre-construction work is moving at a slow pace and it is questionable whether funding will be re-authorized in the next version of SAFETEA-LU	YES
U-3440 is in the 2025 horizon year but all construction is shown completed in 2013 for the TIP	We believe this project will be complete sometime in 2016 depending on a number of construction variables	YES
I could not find I-2511 or U-2009B in the TIP	These projects are complete	YES
EPA Comments		
The LRTP should match the descriptions in the TIP for the projects listed below. For example: Use 2 lanes to 4 lanes not...multilanes or additional lanes <ul style="list-style-type: none"> • I-2304 • I-3802 • I-3803 • R-2911 • R-2533 • U-4910 • U-3415 • U-3440 	The information to clarify the what was meant by “multilane or additional lanes” was handwritten in the STIP that was provided for the review <p>A joint FHWA and NCDOT STIP review is currently underway where ways to improve STIP/TIP project information to better address critical data needed for the Transportation Conformity Process has been discussed and recommendations will be forwarded to the management committee. These changes will likely take some time to incorporate and some of the recommendations may not be feasible. If information is missing from the STIP/TIP that is critical for the conformity process it will be handwritten or typed on the STIP/TIP document and will be included as an attachment in the final conformity determination report (similar to what was done for this review process)</p>	Information that is missing from the STIP/TIP that is critical for the conformity process it will be handwritten or typed on the STIP/TIP document and will be included as an attachment in the final conformity determination report (similar to what was done for this review process)
Gaston MPO		
FHWA Comments		

<p>U-3321 (53 & 1): The STIP project description does not match the project description for the conformity determination that was completed 10/5/10, please explain</p>	<p>The description will match in the final document.</p>	<p>The U-3321 project description in the 12-18 STIP needs to be amended to match the description used for the conformity determination completed on 10/5/10</p>
<p>U-3633 (14): The STIP shows construction funding in 2015 and in the LRTP it is shown in the 2015 HY (this project is regionally significant). When will this project be completed? Also TIP/LRTP project description and distance do not match, please explain</p>	<p>Both the STIP and 2035 LRTP show construction in 2015. Project description will be changed in both the STIP and 2035 LRTP to “NC 273 (S. Main St.) from Tuckaseegee at Beatty Dr to Highland St. at S. Main St.” See attachment for clarification. This project will be open to traffic by 12/31/15</p>	<p>Change project descriptions in both the STIP and 2035 LRTP to “NC 273 (S. Main St.) from Tuckaseegee at Beatty Dr to Highland St. at S. Main St.”</p> <p>Make sure the project is correctly modeled-new REA (length, number of lanes, etc.) to reflect the change in project description mentioned above</p>
<p>U-5103 (5): The STIP shows construction funding beyond 2015 and in the LRTP it is shown in the 2015 HY (this project is not regionally significant). When will this project be completed?</p>	<p>This project will initially be built as a three-lane project using the City of Gastonia funds. The extent of the initial project will be from S. New Hope Rd. to Lowell Bethesda Rd. NCDOT will construct the remaining portion of the project by 2025.</p>	<p>The TIP and the LRTP need to match to represent the different phases of the project and the completion dates</p> <p>The 2035 LRTP needs to be amended to show this project in the 2025 HY</p>
<p>C-4934 (3): The project mileage is not included in the STIP, please explain</p>	<p>The mileage has been added to the STIP.</p>	<p>Yes</p>
<p>W-5311: I cannot find this project in the LRTP, please explain</p>	<p>W-5311 was initially an unfunded project with the Project ID number as 32 in the Unfunded Section of the 2035 LRTP. The project has now been funded and given the TIP</p>	<p>Yes</p>

	number W-5311. This project is Exempt (§ 93.126).	
I cannot find the 2035 LRTP project index number 15 in the TIP	Reference # 15 (Cox Road – Widen Cox Road to Six-lanes with a continuous right turn land from I-85 to Franklin Blvd) is a privately funded project and will be added to the MTIP.	Already modeled in the REA for conformity completed on 10/5/10-no additional analysis needed-Add project to MTIP
NCDAQ Comments		
Will U-3321 be open by December 31, 2015?	Yes	YES
I did not see U-2408 in the Plan. It is under construction	U-2408 is complete	Bernie Yacobucci will check to see if this project was modeled. If the project was not modeled then it needs to be added to the model during the TIP conformity process. Bernie checked with Craig Gresham and the project was modeled. This comment has been addressed – YES
U-3633 shows construction in 2015. Will it be open by December 31, 2015?	Yes	YES
U-5103 is in the 2015 horizon year but construction is unfunded	This project will initially be built as a three-lane project using the City of Gastonia funds. The extent of the initial project will be Titman Rd from S. New Hope Rd. to Lowell Bethesda Rd. NCDOT will construct the remaining portion of the project by 2025.	The TIP and the LRTP need to match to represent the different phases of the project and the completion dates The 2035 LRTP need s to amended to show this project in the 2025 HY
I did not see Project ID 4 (<i>exempt</i>), U-4705 (RS) , R-3107 (not RS) , R-2720 (not RS) , U-3425 (not RS) , U-2523B (RS) , or Cox Road in the TIP	Projects ID#'s 4, U-4705, R-3107, R-2720, U-3425 and U-2523B are all currently unfunded in the STIP. However, local public initiatives may eventually fund these projects	The HYs will need to be shifted from 2015 to 2025 in the LRTP for the following projects: <ul style="list-style-type: none"> • U-4705 • U-2523B • R-3107 • R-2720 Projects U-3425 and Cox

		Road will remain in the 2015 HY Add these projects if locally funded to the Gaston TIP (not STIP) with appropriate project information
EPA Comments		
The LRTP should match the descriptions in the TIP for the project listed below. For example: Use 2 lanes to 4 lanes not...multilanes or additional lanes <ul style="list-style-type: none">• U-3321• U-2408• C-4934• U-3633	A joint FHWA and NCDOT STIP review is currently underway where ways to improve STIP/TIP project information to better address critical data needed for the Transportation Conformity Process has been discussed and recommendations will be forwarded to the management committee. These changes will likely take some time to incorporate and some of the recommendations may not be feasible. If information is missing from the STIP/TIP that is critical for the conformity process it will be handwritten or typed on the STIP/TIP document and will be included as an attachment in the final conformity determination report (similar to what was done for this review process)	Information is missing from the STIP/TIP that is critical for the conformity process it will be handwritten or typed on the STIP/TIP document and will be included as an attachment in the final conformity determination report (similar to what was done for this review process)
U-3321 – Use amended 2035 Project description	The description will match in the final document	YES
U-3633 – Is Tuckaseegee the same as South Main Street?	No. Project description will be changed to NC 273 (S. Main St.) from Tuckaseegee at Beatty Dr to Highland St. at S. Main St. See attachment for clarification	YES
MUMPO		
FHWA Comments		
I-3311: I cannot find this project in the LRTP. Is this project widening the width of existing lanes and not adding additional lane? Please explain.	The project needs to be added to the LRTP. It was inadvertently not included the LRTP. The E part is only for widening lanes. The TIP project is for the E section	The project needs to be added to the LRTP. According to the MPO the project was included in the modeling/regional emission analysis for the conformity determination completed on 5/3/10 but was not added to the 2035 LRTP project list.
I-4750: I cannot find this project in	The LRTP was developed using the 09-15 TIP which did not include construction	Add the project to the LRTP. A new regional emission

the LRTP, please explain.	funds for the project. The horizon year for the project may need to be corrected in the LRTP	analysis will need to be done to demonstrate on conformity on the 2035 LRTP and 12-18 TIP
I-4733 (3006): The TIP shows construction funding in 2013, when will this project be completed (the LRTP shows it in the 2025 HY - this project is regionally significant)?	The LRTP provides a more detailed description of the project than the STIP	Shift the HY for this project from 2025 to 2015. This will require a new REA.
R-2248 (3019 & 3005): The STIP shows construction funding beyond 2015 and in the LRTP it is shown in the 2015 HY (project 3019 is not regionally significant and project 3005 is regionally significant). When will this project be completed?	The project will be complete by 2015. The funds in the STIP probably reflect repayment of the GARVEE funds.	Yes
R-2123CE (3135): The STIP shows construction funding beyond 2015 and in the LRTP it is shown in the 2015 HY (this project is regionally significant). When will this project be completed?	The project will be complete by 2015. The funds in the STIP probably reflect repayment of the GARVEE funds.	Yes
R-2559 (3169): When the mileage in the STIP is added for R-3329 & R-2559 it equals 25.6 (11.5 + 14.1) and	We have analyzed this again and find that the mileage in the LRTP is accurate.	Joe McLelland will check the mileage that was modeled for R-2559 B&C plus all of R-3329. Joe McLelland reply: <ul style="list-style-type: none"> The length of the modeled project is

<p>the LRTP mileage equals 19.7, please explain?</p>		<p>19.7 miles including the widening of existing US 74. The new construction portion of the project is 18.9 miles.</p> <p>Van Argabright will check the mileage in the environmental document to check the mileage. Van checked the mileage in the environmental document and it is 19.7 miles. This matches the LRTP. The mileage in the STIP will be changed to reflect 9.2 miles for R-2559 and 10.5 miles for R-3329.</p>
<p>R-3329 (3169): When the mileage in the STIP is added for R-3329 & R-2559 it equals 25.6 (11.5 + 14.1) and the LRTP mileage equals 19.7, please explain?</p>	<p>We have analyzed this again and find that the mileage in the LRTP is accurate.</p>	<p>Joe McLelland will check the mileage that was modeled for R-2559 B&C plus all of R-3329. Joe McLelland reply:</p> <ul style="list-style-type: none"> The length of the modeled project is 19.7 miles including the widening of existing US 74. The new construction portion of the project is 18.9 miles. <p>Van Argabright will check the mileage in the environmental document to check the mileage. Van checked the mileage in the environmental document and it is 19.7 miles. This matches the LRTP. The mileage in the STIP will be changed to reflect 9.2 miles for R-2559 and 10.5 miles for R-3329.</p>
<p>R-2420 (3067):</p>	<p>The "A" section listed in the STIP under</p>	<p>Yes</p>

<p>The STIP shows construction funding beyond 2015 and in the LRTP it is shown in the 2015 HY (this project is not regionally significant). When will this project be completed?</p>	<p>“Future Years” is a locally funded project by the City of Charlotte and will be complete by 2015.</p>	
<p>R-0211EC (3121): The STIP shows construction funding beyond 2015 and in the LRTP it is shown in the 2015 HY (this project is regionally significant). When will this project be completed?</p>	<p>The LRTP was developed using the 09-15 TIP which showed construction of the project in 2011. The horizon year for the project may need to be revised in the LRTP if NCDOT’s proposed schedule holds.</p>	<p>Adjust the project HY in the LRTP. A new regional emission analysis will need to be done to demonstrate on conformity on the 2035 LRTP and 12-18 TIP</p>
<p>U-5128 (3289): Why does the STIP show no mileage for this project?</p>	<p>Defer to NCDOT TIP office.</p>	<p>This project may be removed from the TIP. If the project is removed from the TIP the project will also be removed from the LRTP (remove the mileage from the model)</p> <p>If the project is not removed from the TIP the mileage will be included in the TIP</p>
<p>U-3321 (3094): The STIP shows construction funding in 2015, will this project be completed by 12/31/15 (the LRTP shows it in the 2015 HY - this project is regionally significant)?</p>	<p>The NCTA expects this project to be open to traffic in 2015.</p>	<p>Yes</p>
<p>U-3850 (3112): What is the current scope of this project and how does it</p>	<p>CDOT is currently working with NCDOT to revise the scope. The project need is related to safety issues.</p>	<p>BC will look into this and to make sure whatever changes are made to the projects are checked against the LRTP</p>

compare to what was modeled for conformity (5/2010)?		and TIP to make sure it is accurately represented if not adjustments will be made to the LRTP/TIP
U-3411 (3311): The mileage in the STIP=2.3 and in the LRTP=.62, please explain	The project in the LRTP reflects only a portion of the project shown in the STIP.	Yes
U-2509: The mileage in the STIP=6.3 and in the LRTP=4.68, please explain	The TIP length is for the portion all the way I-485 while the LRTP funds it only to Hwy 51.	Yes
U-5108: I cannot find this project in the LRTP, please explain	This project is also identified as U-5131(not RS) and is in the LRTP in the 2015 horizon year, index number 3214.	U-5131 will be removed from the TIP. U-5108 will replace U-5131 in the LRTP
U-4913: I cannot find this project in the LRTP, please explain	The LRTP was developed using the 09-15 STIP and there was no funding at that time. The project may need to be added to the LRTP. Not RS....needs to be added to LRTP	Add the project to the LRTP. Is this project RS? A new regional emission analysis may need to be done to demonstrate on conformity on the 2035 LRTP and 12-18 TIP
U-3809 (3146): The STIP shows construction funding beyond 2015 and in the LRTP it is shown in the 2015 HY (this project is regionally significant). When will this project be completed?	The 09-15 STIP showed project completion by 2015. The horizon year for the project may need to be changed in the LRTP.	Correct the HY in the LRTP
U-5111: I cannot find this project in the LRTP, please explain	The project is not a full widening of the roadway. It is actually the construction of one lane that will serve as a right turn lane from Wilgrove-Mint Hill Road onto NC 51. A project of this scope is not usually a component of an LRTP.	Yes
U-3412: I cannot find this project in	Project is or almost complete.	Yes

the LRTP, please explain		
U-3447: I cannot find this project in the LRTP, please explain	Project is or almost completed.	Yes
U-5112: I cannot find this project in the LRTP and the project mileage is not included in the STIP, please explain	The overall scope of this project is quite small, and one that is not usually included in an LRTP. Intersection improvement	Provide more details on this project. Is it RS, not RS, or exempt?
U-3825 (3267): The STIP shows construction funding in 2015 and in the LRTP it is shown in the 2015 HY (this project is not regionally significant). When will this project be completed?	The 09-15 STIP showed project completion by 2015. The horizon year for the project may need to be changed in the LRTP.	Correct the HY in the LRTP
U-4714: The mileage in the STIP=6.5 and in the LRTP=2.76, please explain	The TIP lists the entire project limits: Trade St. to Wesley Chapel-Stouts Road. MUMPO's LRTP funds only a portion of the overall project, from I-485 to Indian Trail Road.	Yes
U-3467: I cannot find this project in the LRTP, please explain	The project was linked to a private development where the developer was going to build a portion of the road. The private development project is no longer viable, therefore when the LRTP was developed the MPO decided not to fund the project.	If this project is not removed from the STIP it will be added to the LRTP.
U-5025: I cannot find this project in the LRTP, please explain	Project is under construction or complete.	Yes
U-5129 (3317): The project mileage is not included in the STIP, please explain	Defer to NCDOT TIP unit	If the project is not removed from the STIP, the mileage will be added to the STIP
U-5014: I cannot find this project in	Signal projects are not typically included in the LRTP.	Yes

the LRTP, please explain		
U-5107: I cannot find this project in the LRTP, please explain	This was a project for on-site improvements at the Marion Diehl Rec Center and is not a capacity project; therefore it is not in the LRTP.	Yes
U-5114: I cannot find this project in the LRTP, please explain	Intersection improvement not typically included in the LRTP	Yes
I cannot find the 2035 LRTP project index number 3003 in the TIP	This is a locally funded project by the City of Charlotte.	Add this project to the MUMPO TIP (not STIP) with appropriate project information
NCDAQ Comments		
I-4733 is showing construction complete in the 2013 fiscal year, yet the project was not modeled until 2025. Will this project be open before January 1, 2016? It is regionally significant according to the plan.	It is anticipated that the project will not be complete until after 2015	YES
Will R-2123CE be open by December 31, 2015?	Yes	YES
R-2559 is 14.1 miles in the TIP and 19.7 miles in the Plan. Please explain.	The Plan combines the Monroe Bypass (R-2559) with the Monroe Connector (R-3329) under index #3169. The mileage for the two projects is 19.7	YES
I did not find R-2616 in the Plan. This project is currently under construction.	This project is complete or nearing completion. It is also outside MUMPO's planning area	YES
R-2420 is in the 2015 horizon year but construction is shown as future years in the plan.	The "A" section listed in the STIP under "Future Years" is a locally funded project by the City of Charlotte and will be complete by 2015	In the portion locally funded what was modeled in the 2015 HY? Joe McLelland will check to see what was modeled and when it is going

<p>Has this project slipped?</p>		<p>to be open to traffic for all sections of this project except for “Part A” Joe McLelland reply</p> <ul style="list-style-type: none"> • Part A: Mallard Creek to Neal Road (3067) – in 2015 network • Parts B & BA: Neal Road to I-85 and interchange (208) – in 2015 network (opening year 2001). STIP shows complete • Part C: University City to Carolyn Lane (74) – under construction – in 2015 network <p>The STIP/TIP will be updated to no longer show this project as a future year project to match what is represented in the LRTP</p>
<p>R-0211EC is in the 2015 horizon year but unfunded in the TIP. Will this project be constructed by 2015?</p>	<p>MUMPO response: The LRTP was developed using the 09-15 TIP which showed construction of the project in 2011. The horizon year for the project may need to be revised in the LRTP if NCDOT’s proposed schedule holds</p>	<p>Adjust the project HY in the LRTP. A new regional emission analysis will need to be done to demonstrate on conformity on the 2035 LRTP and 12-18 TIP</p>
<p>I did not find U-4912 in the TIP</p>	<p>This is a streetscape project; such projects are not usually components of LRTPs. No capacity will be added to Elizabeth Avenue</p>	<p>YES</p>
<p>U-3321 shows construction in 2015. Will it be open by December 31, 2015?</p>	<p>MUMPO response: The NCTA expects this project to be open to traffic in 2015</p>	<p>YES</p>
<p>The scope of U-3850 is different between the TIP and</p>	<p>CDOT is currently working with NCDOT to revise the scope. The project need is related to safety issues</p>	<p>YES</p>

Plan. The Plan has added a lane over the bridge		
U-3411 has 2.3 miles in the TIP and 0.62 miles in the Plan	The project in the LRTP reflects only a portion of the project shown in the STIP	YES
I could not find U-4752 in the plan. It is currently under construction	It is programmed for Planning and Design only. Such projects are not usually components of LRTPs	YES
I could not find U-2510A in the Plan. It is under construction	This project is under construction and will be complete before the end of 2010	<p>Joe McLelland will check to see if this project was modeled. If the project was not modeled then it needs to be added to the model during the TIP conformity process. Joe McLelland reply:</p> <ul style="list-style-type: none"> This project is included in the 2015 network (opening year 2010) <p>This project needs to be added to the LRTP in the 2015 HY</p> <p>Project is under construction or complete. The project will be removed from the 12-18 STIP per B. Cook & V. Argabright Email dated 1/5/11.</p>
Why is U-5108 not in the plan? It shows construction ending in 2014	This project is also identified as U-5131 and is in the LRTP in the 2015 horizon year, index number 3214	YES
U-3809 is in the 2015 horizon year but construction is shown in 2016 in the TIP	The 09-15 STIP showed project completion by 2015. The horizon year for the project may need to be changed in the LRTP	Correct the HY in the LRTP
I did not see U-5115 in the Plan. The TIP shows construction	The project is for intersection improvements. A project of this scope is not usually a component of an LRTP	YES

complete in 2014		
<p>Why is U-3412 not in the Plan? It is currently under construction</p>	<p>Project is or almost complete</p>	<p>Joe McLelland will check to see if this project was modeled. If the project was not modeled then it needs to be added to the model during the TIP conformity process. Joe McLelland reply:</p> <ul style="list-style-type: none"> The project is included in the 2015 network (opening year 2012) <p>This project needs to be added to the LRTP in the 2015</p> <p>Project is under construction or complete. The project will be removed from the 12-18 STIP per B. Cook & V. Argabright Email dated 1/5/11.</p>
<p>Why is U-3447 not in the Plan? It is currently under construction</p>	<p>This project is under construction and nearing completion</p>	<p>Joe McLelland will check to see if this project was modeled. If the project was not modeled then it needs to be added to the model during the TIP conformity process. Joe McLelland reply:</p> <ul style="list-style-type: none"> The project is included in the 2015 network (opening year 2012) <p>This project needs to be added to the LRTP in the 2015 HY</p> <p>Project is under construction or complete. The project will be removed from the 12-18 STIP per B. Cook & V. Argabright Email dated 1/5/11.</p>

Why is U-5112 not in the plan? It shows construction ending in 2014.	The overall scope of this project is quite small, and one that is not usually included in an LRTP	YES
U-3825 shows construction in 2015. Will it be open by December 31, 2015?	The 09-15 STIP showed project completion by 2015. The horizon year for the project may need to be changed in the LRTP	Correct the HY in the LRTP
Why is U-3467 not in the Plan? Construction for part A is shown in 2013	The project was linked to a private development where the developer was going to build a portion of the road. The private development project is no longer viable, therefore when the LRTP was developed the MPO decided not to fund the project	YES
U-5025 is under construction but not in the Plan. Why?	Project is under construction or complete	Joe McLelland will check to see if this project was modeled. If the project was not modeled then it needs to be added to the model during the TIP conformity process. Joe McLelland reply: <ul style="list-style-type: none"> The project is included in the 2015 network (opening year 2014) This project needs to be added to the LRTP in the 2015 HY Project is under construction or complete. The project will be removed from the 12-18 STIP per B. Cook & V. Argabright Email dated 1/5/11.
I did not see U-2547 in the TIP	NCDOT has proposed to remove funding from this project	This project will either be removed from the TIP or the HY will be changed from 2015 to a later HY.
I did not see U-5116 in the TIP	MUMPO response: This project is being undertaken by the City of Charlotte	YES
EPA Comments		
General EPA	General comment from MUMPO: A joint	Information is missing from

<p>Comment: For the projects listed below. The descriptions the LRTP should match the descriptions in the TIP. For example: Use 2 lanes to 4 lanes not...multilanes or additional lanes.</p> <ul style="list-style-type: none"> • U-3329 • I-4733 • As well as the projects listed below 	<p>FHWA and NCDOT STIP review is currently underway where ways to improve STIP/TIP project information to better address critical data needed for the Transportation Conformity Process has been discussed and recommendations will be forwarded to the management committee. These changes will likely take some time to incorporate and some of the recommendations may not be feasible. If information is missing from the STIP/TIP that is critical for the conformity process it will be handwritten or typed on the STIP/TIP document and will be included as an attachment in the final conformity determination report (similar to what was done for this review process)</p>	<p>the STIP/TIP that is critical for the conformity process it will be handwritten or typed on the STIP/TIP document and will be included as an attachment in the final conformity determination report (similar to what was done for this review process)</p>
<p>I-3311-Why is this not in LRTP?</p>	<p>The project needs to be added to the LRTP. It was inadvertently not included the LRTP's project listings. The E part is only for widening existing lanes to a standard width; no additional capacity will be added. The TIP project is for the E section</p>	<p>YES</p>
<p>I-4750-Why is this not in the LRTP?</p>	<p>The LRTP was developed using the 09-15 TIP which did not include construction funds for the project. The horizon year for the project may need to be corrected in the LRTP</p>	<p>Add the project to the LRTP. A new regional emission analysis will need to be done to demonstrate on conformity on the 2035 LRTP and 12-18 TIP</p>
<p>I-3803 –Is US 29/NC 49 same as I-485?</p>	<p>No, they are two different facilities</p>	<p>YES</p>
<p>R-2632-Why is it not in the LRTP?</p>	<p>R-2632AA is under construction and will be complete soon. No funds are associated with the remainder of the project</p>	<p>YES</p>
<p>R-2555 - The descriptions the LRTP should match the descriptions in the TIP. For example: Use 2 lanes to 4 lanes not...multilanes or additional lanes</p>	<p>Was the intent to list R-2559 (Monroe Bypass) as opposed to R-2555 (West Catawba Avenue)? If so, the LRTP combines the two projects since R-3329 is the Monroe Connector and are essentially one project. They are shown as index # 3169 in horizon year 2015 in the LRTP</p>	<p>YES</p>

R-2420- Construction is shown in 2015 in LRTP and 2025 in STIP.	The "A" section listed in the STIP under "Future Years" is a locally funded project by the City of Charlotte and will be complete by 2015	YES
R-4902 – Construction is shown in 2025 in LRTP and 2015 in STIP.	The TIP shows construction into 2016, thereby placing completion in the LRTP's 2025 horizon year	YES
U-5128 - The descriptions the LRTP should match the descriptions in the TIP. For example: Use 2 lanes to 4 lanes not...multilanes or additional lanes	The project is proposed to be 4 lanes.	YES
U-2509- Is Idlewild same as Conference Drive? Is Hayden and Krefeld same as Sardis Rd?	No, Idlewild is not the same as Conference Drive. Conference Drive is ¼ of a mile east of Idlewild Road. Also Hayden Way, Krefeld Drive and Sardis Road are three different roads	STIP references A & B phases (Sardis and Idlewild). LRTP has Conference Dr. to Krefeld Dr (3009 and 3010). All the work will be done on US 74 Independence Blvd (Outer Loop). Clean up this description confusing as is. This project is outside of the first 4 years of the 12-18 STIP so it does not impact the 12-18 TIP conformity process. If this issue is not addressed during this conformity process it will be addressed in the future.
U-4752- Why is it not in the LRTP?	It is programmed for Planning and Design only. Such projects are not usually components of an LRTP	YES
U-5011- Why is it not in the LRTP?	This project is the Norfolk Southern intermodal facility under construction at the airport. It will result in the relocation of the railroad's intermodal facility from north of uptown Charlotte. Such projects are not usually components of LRTPs	YES
U-2510A- Why is it not in the LRTP?	This project is under construction and will be complete before the end of 2010	YES

U-0209B - The descriptions the LRTP should match the descriptions in the TIP. For example: Use 2 lanes to 4 lanes not...multilanes or additional lanes	The project will result in the construction of 6 lanes plus managed lanes or bus lanes	YES
U-5108 - Why is it not in the LRTP?	This project is also identified as U-5131 and is in the LRTP in the 2015 horizon year, index number 3214	YES
U-4913 -Cannot find this project in LRTP.	The LRTP was developed using the 09-15 STIP and there was no funding for the project at that time. The project may need to be added to the LRTP	Add the project to the LRTP. Is this project RS? A new regional emission analysis may need to be done to demonstrate on conformity on the 2035 LRTP and 12-18 TIP
U-3809 - The descriptions the LRTP should match the descriptions in the TIP. For example: Use 2 lanes to 4 lanes not...multilanes or additional lanes	The 09-15 STIP showed project completion by 2015. The horizon year for the project may need to be changed in the LRTP	Correct the HY in the LRTP
U-5199 –Why is it not in the LRTP?	This project is under construction and will be complete soon	YES
U-5115 -Why is it not in the LRTP?	The project is for intersection improvements. A project of this scope is not usually a component of an LRTP	YES
U-5111 - Why is it not in the LRTP?	The project is not a full widening of the roadway. It is actually the construction of one lane that will serve as a right turn lane from Wilgrove-Mint Hill Road onto NC 51. A project of this scope is not usually a component of an LRTP	YES
U-3447 -Why is it not in the LRTP?	This project is under construction and nearing completion	YES
U-5112 - Why is it not in the LRTP?	The overall scope of this project is quite small, and one that is not usually included in an LRTP	YES
U-3825 - The descriptions the LRTP should match	The 09-15 STIP showed project completion by 2015. The horizon year for the project may need to be changed in the	Correct the HY in the LRTP

the descriptions in the TIP. For example: Use 2 lanes to 4 lanes not...multilanes or additional lanes	L RTP	
U-4714 - The descriptions the LRTP should match the descriptions in the TIP. For example: Use 2 lanes to 4 lanes not...multilanes or additional lanes	The TIP lists the entire project limits: Trade St. to Wesley Chapel-Stouts Road. MUMPO's LRTP funds only a portion of the overall project, from I-485 to Indian Trail Road	YES
U-3467 – Why is it not in the LRTP?	The project was linked to a private development where the developer was going to build a portion of the road. The private development project is no longer viable, therefore when the LRTP was developed the MPO decided not to fund the project	YES
U-5025 – Why is it not in the LRTP? How many lanes?	The project is under construction and nearing completion	YES
U-5129 - The descriptions the LRTP should match the descriptions in the TIP. For example: Use 2 lanes to 4 lanes not...multilanes or additional lanes	The proposed number of lanes is 4	YES
FHWA Comments		
Donut Gaston (Lake Norman RPO)		
FHWA Comments		
No comments		
NCDAQ Comments		
No comments		
EPA Comments		
The LRTP should match the descriptions in the TIP for the projects listed below. For	A joint FHWA and NCDOT STIP review is currently underway where ways to improve STIP/TIP project information to better address critical data needed for the Transportation Conformity Process has	Information is missing from the STIP/TIP that is critical for the conformity process it will be handwritten or typed on the STIP/TIP document

<p>example: Use 2 lanes to 4 lanes not...multilanes or additional lanes</p> <ul style="list-style-type: none"> • I-4750 • R-2911 • R-2307 • R-3833 	<p>been discussed and recommendations will be forwarded to the management committee. These changes will likely take some time to incorporate and some of the recommendations may not be feasible. If information is missing from the STIP/TIP that is critical for the conformity process it will be handwritten or typed on the STIP/TIP document and will be included as an attachment in the final conformity determination report (similar to what was done for this review process)</p>	<p>and will be included as an attachment in the final conformity determination report (similar to what was done for this review process)</p>
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Donut Iredell (*Lake Norman RPO*)

FHWA Comments

<p>I-4750: This project was not included in the conformity determination that was completed on 5/3/10, please explain</p>	<p>This project is outside the life of the TIP for project completion (both for the 09-15 STIP and the 12-18 STIP) so it does not impact conformity</p>	<p>Yes</p>
<p>R-2911: This project was not included in the Metrolina Area conformity determination that was completed on 5/3/10, please explain</p>	<p>Project should be complete by Summer 2011. This project is outside of the NA Area so it does not impact conformity</p>	<p>Yes</p>
<p>R-3833: This project was included in the Metrolina Area conformity determination (completed on 5/3/10) with a FY 13 project completion date. The STIP shows only future year project funding, please explain</p>	<ul style="list-style-type: none"> • R-3833 A: Project complete by Summer 2011 • R-3833B: Project complete by 2013 • R-3833C: Project is unfunded under the current draft STIP 	<p>Andrew Bryant will check to verify if project R-3833C is modeled (JM verified that this project was modeled in the 2015 HY). It will need to be taken out of the model – moved out to post year (since it is unfunded and it is outside of the life of the STIP) and a new REA will need to be done. It will also need to be removed from the Lake Norman RPO listing of projects from the 09-15 TIP</p>

NCDAQ Comments

I did not see R-2911 in the Plan. It is under construction	Project should be complete by Summer 2011. This project is outside of the NA Area so it does not impact conformity	Yes
R-3833C is in the 2015 horizon year but construction is not shown to start until 2020	R-3833C: Project is unfunded under the current draft STIP	Andrew Bryant will check to verify if project R-3833C is modeled (JM verified that this project was modeled in the 2015 HY). It will need to be taken out of the model – moved out to post year (since it is unfunded and it is outside of the life of the STIP) and a new REA will need to be done. It will also need to be removed from the Lake Norman RPO listing of projects from the 09-15 TIP
EPA Comments		
No comments		
Donut Lincoln (Lake Norman RPO)		
FHWA Comments		
No comments		
NCDAQ Comments		
No comments		
EPA Comments		
No comments		
Donut Union (Rocky River RPO)		
FHWA Comments		
No comments		
NCDAQ Comments		
Is segment CC of R-2533 in Stanly county?	Based on the STIP, this segment (CC) is located in Cabarrus County. It is a segment along NC 49, south of NC 73 and west of Mt. Pleasant	This is not an RPO project and is being dealt with by the Cabarrus Rowan (CR) MPO. The comment for this project under the CR MPO has been addressed - YES
EPA Comments		
The LRTP should match the descriptions in the TIP for the projects listed below. For example: Use 2 lanes to 4 lanes not...multilanes or additional lanes	A joint FHWA and NCDOT STIP review is currently underway where ways to improve STIP/TIP project information to better address critical data needed for the Transportation Conformity Process has been discussed and recommendations will be forwarded to the management committee. These changes will likely take some time to incorporate and some of	Information is missing from the STIP/TIP that is critical for the conformity process it will be handwritten or typed on the STIP/TIP document and will be included as an attachment in the final conformity determination report (similar to what was

<ul style="list-style-type: none"> • R-2616 • R-2530 • R-2533 	<p>the recommendations may not be feasible. If information is missing from the STIP/TIP that is critical for the conformity process it will be handwritten or typed on the STIP/TIP document and will be included as an attachment in the final conformity determination report (similar to what was done for this review process)</p>	<p>done for this review process)</p>
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Air Quality Conformity Determination for the 2012-2018 Draft TIP

Metrolina Regional Partners Meeting

Metrolina Region Long-Range Transportation Plan and Conformity Plan

Interagency Consultation (IC) Meeting

NCDAQ Data Request Meeting Minutes

November 17, 2010

ATTENDEES

CDOT: Joe McLelland, Anna Gallup, Eldewins Haynes

NCDOT: Jamal Alavi, Anil Panicker, Derry Schmidt, Mark Smith, Mike Bruff, Jordan Woodard

MUMPO: Bob Cook, Stuart Basham

Cabarrus-Rowan MPO: Phil Conrad

Gaston MPO: Bernie Yacobucci

RFATS:

Lake Norman RPO:

Rocky River RPO:

FHWA: Loretta Barren, Eddie Dancausse

NCDAQ: Janice Godfrey, Vicki Chandler, Heather Hildebrandt,

SCDHEC:

Kimley-Horn:

EPA:

SCDOT:

Mecklenburg Co. AQ:

NC Turnpike Authority:

Union Co.:

ITEMS DISCUSSED

DATA REQUEST:

- On October 19, 2010, the North Carolina Division of Air Quality (NCDAQ) requested speeds and VMT for 2017, and 2020 for the Metrolina Region. The requested data will be used for the air quality modeling analyses in support of the new 8-hour ozone standard. This modeling will be performed by the Southeastern States Air Resource Managers (SESARM) and will be a regional modeling effort with participation and oversight from the various state agencies. The years 2017, and 2020 are future years for

the 2007 base year in support of NCDAQ's attainment demonstration for the new ozone standard.

TIMELINE:

- NCDAQ has agreed with the December 31, 2010 deadline for the requested data.

ACTION ITEMS:

- MPOs and RPOs should review their LRTP and TIP project lists.
- Project lists need to be further broken down to determine which projects should be considered in the models for 2017 and 2020 (usually the projects that will be open to public on or before December 31, 2017 and December 31, 2020 respectively).
- The 2017 and 2020 project lists must be completed by November 30, 2010 so they can be analyzed and data sent out by the end of December.
- All MPOs agreed to the timeline established.
- CDOT will coordinate the modeling effort.

OTER:

- Point was made that the speeds and VMT data should be updated when the 2010 census data is published.
- CATS has recently completed an updated mode choice model. This may mean that a new version of the MRM will need to be adopted.
- Data from the 2025 model will be interpolated for the 2017 and 2020 years.
- We should work with what we have now in the LRTP for the December submission.
- If better data from the new TIP is available later, other submissions may follow.
- We will use MOBILE 6 for this modeling effort

Metrolina Region Long-Range Transportation Plan and Conformity Plan

Interagency Consultation (IC) Meeting

ACTION & FOLLOW-UP ITEMS/NOTES

December 8, 2010

ATTENDEES

CDOT: Joe McLelland, Anna Gallup, Eldewins Haynes
NCDOT: Jamal Alavi, Mark Smith, Terry Arellano, Linda Dosse
MUMPO: Bob Cook, Stuart Basham, Nick Polimeni
Cabarrus-Rowan MPO: Phil Conrad
Gaston MPO: Bernie Yacobucci, Hank Graham
RFATS:
Lake Norman RPO: Dana Stoogenke
Rocky River RPO: Bill Duston
FHWA: Loretta Barren, Eddie Dancausse
NCDAQ: Heather Hildebrandt,
SCDHEC:
Kimley-Horn:
EPA: Dianna Smith
SCDOT:
Mecklenburg Co. AQ:
NC Turnpike Authority:
Union Co.:

Introduction

Phil Conrad with the Cabarrus-Rowan MPO welcomed all participants to the December 8, 2010 Metrolina TIP Conformity Interagency Consultation meeting and asked for everyone to introduce themselves. All agencies were represented.

ITEMS DISCUSSED:

LRTP/TIP Impacted Projects – NEW REA

- Eddie Dancausse asked for a review of the agency comments and status by the MPOs on their release of changes to the LRTP and TIP. Bob Cook indicated that MUMPO was working with NCDOT on a revised scope for TIP project U-3850. He stated that MUMPO would hold their one-on-one with NCDOT on December 14th and that he hoped to have a final decision/approval by the MUMPO Board on U-3850 by January. He noted that R-2420 has been split into 2 phases/project segments and both pieces will be completed by Charlotte by 2015 and are modeled correctly. Eddie asked that any changes or progress in the agency comments be communicated to FHWA so that they could be incorporated into the document. Bernie Yacobucci indicated that the Gaston MPO would be taking their project changes to the next TCC/TAC meeting. Phil Conrad

stated that he would do the same with the one project horizon change in Rowan County.

CONSENSUS PLAN AND CONFORMITY SCHEDULE

- Eddie stated that the Consensus Plan had been updated per the discussion at the November IAC meeting and redistributed. He asked that any additional changes be communicated to him. Eddie reviewed the Conformity Schedule and highlighted key dates/milestones for the MPOs in January, April, and June. Boards will need to ok changes to the project lists in January and release the draft Conformity Report in April with final adoption to occur in June. MPO staff indicated that dates on the Conformity Schedule should work for their respective boards.

OTHER/NEXT STEPS

- The RPOs asked about project impacts in the rural areas. NCDOT indicated that they would assist the RPOs in carrying out public involvement in the non-MPO areas for the STIP.
- Discussion ensued about the next meeting date. IAC members agreed to establish a standing meeting date on the second Thursday of the month.

ACTION ITEMS:

- **The next Metrolina Area interagency consultation meeting is scheduled for Thursday, January 13, 2011, from 10:00am-11:00pm. The Gaston Urban Area MPO will host this meeting.**

**Air Quality Conformity Determination for the 2012-
2018 Draft TIP
Metrolina Regional Partners Meeting
Metrolina 12-18 TIP Conformity Process
Interagency Consultation –Project Status Meeting**

**Metrolina Region Long-Range Transportation Plan and Conformity Plan
Interagency Consultation (IC) Meeting**

ACTION & FOLLOW-UP ITEMS/NOTES

January 13, 2010

ATTENDEES

CDOT: Joe McLelland,
NCDOT: Jamal Alavi, Mark Smith, Anil Panicker
MUMPO: Bob Cook, Nick Polimeni
Cabarrus-Rowan MPO: Phil Conrad
Gaston MPO: Bernie Yacobucci
RFATS:
Lake Norman RPO:
Rocky River RPO: Dana Stoogenke
FHWA: Loretta Barren, Eddie Dancausse
NCDAQ: Heather Hildebrandt, Steven Liu
SCDHEC:
Kimley-Horn:
EPA: Dianna Smith
SCDOT:
Mecklenburg Co. AQ:
NC Turnpike Authority:
Union Co.:

Introduction

Bernie Yacobucci with the Gaston MPO welcomed all participants to the January 13, 2011 Metrolina TIP Conformity Interagency Consultation meeting and asked for everyone to introduce themselves.

ITEMS DISCUSSED:

MOVES Budget Elements

- Heather began the discussion by talking about the Early Progress Plan and the need to develop budgets for the new model. And the previous model could not be used to do another conformity analysis due to EPA's new

standard. She stated that dates she needed information for were 2010, 2013, 2016, 2019, and 2022. She needed Speed and VMT data for these years and that 2022 has to be a motor vehicle emission budget (MVEB) year. The Metrolina Partners will need to select an additional MVEB year (2013 or later) in addition to 2022 (to be determined at a later date). Joe McLelland said that it would be possible to run conformity on all those years. The group also discussed that at some point in the future new census data would be available and that the information could be updated in the future. Heather stated that she needed the VMT and Speed data by the end of February. The Metrolina partners would have until the end of February to submit the networks.

CONSENSUS PLAN AND CONFORMITY SCHEDULE

- Eddie stated that the all comments in the Consensus Plan were addressed. He also will keep EPA and DAQ updated on the partners' LRTP updates. He said that for the conformity document he would like to see the changes that were made to the LRTP's. Bob Cook stated that all issue's in his plan has been wrapped up except for one project. Phil Conrad said that one of his projects would be moved up. Jamal Alavi stated that there was one project in the donut area that he would take care of.

OTHER/NEXT STEPS

- The MPO's would solicit public review and comments on the draft TIP.

ACTION ITEMS:

- NCDAQ needs the following data from the Metrolina Transportation Partners for SIP development work:
 - Speeds/VMT for 2010, 2013, 2016, 2019 and 2022 needed by the end of February 2011.
 - An additional MVEB year 2013 or later (in addition to 2022) will be needed. This will be determined at a later date
- NCDOT will be responsible for the conformity requirements associated donut area projects (tracking projects to ensure that project changes are incorporated in the modeling, etc.)
- **The next Metrolina Area interagency consultation meeting is scheduled for Thursday, February 16, 2011, from 9:00am-10:00am. The Mecklenburg/Union MPO will host this meeting.**

Metrolina Region Long-Range Transportation Plan and Conformity Plan

Interagency Consultation (IC) Meeting

ACTION & FOLLOW-UP ITEMS/NOTES

February 16, 2011

ATTENDEES

CDOT: Eldewins, Haynes, Martin Kinnamon

NCDOT: Jamal Alavi, Mark Smith, Anil Panicker, Terry Arellano, Linda Dosse, Derry Schmidt

MUMPO: Bob Cook, Nick Polimeni

Cabarrus-Rowan MPO: Phil Conrad

Gaston MPO: Bernie Yacobucci

RFATS:

Lake Norman RPO:

Rocky River RPO: Dana Stoogenke

FHWA: Loretta Barren, Eddie Dancausse

NCDAQ: Heather Hildebrandt, Steven Liu

SCDHEC:

Kimley-Horn: Tim Padgett

EPA: Dianna Smith

SCDOT:

Mecklenburg Co. AQ:

NC Turnpike Authority:

Union Co.:

Introduction

Eldewins Haynes with CDOT welcomed all participants to the 2012-18 TIP update & 2035 LRTP update meeting and asked for everyone to introduce themselves.

ITEMS DISCUSSED:

Review of Action Items

- Eddie Dancausse confirmed, with the concurrence of the attendees, the following:
 - NCDOT will be responsible for the conformity requirements associated donut area projects (tracking projects to ensure that project changes are incorporated in the modeling, etc.)
 - The maintenance SIP DAQ will develop will have MOVES-compatible MVEBs for 2013 and 2022. VMT and speeds were due for this purpose by end of February.

Consensus Plan and Conformity Schedule

- MUMPO update: Project list changes have all been discussed with the model team. R4902 is shifting to the 2015 horizon with a start in 2013. U5116 will shift to 2015. Charlotte will self-fund U203 (airport entrance road) and shift to the 2015 horizon. The I-77 HOV-to-HOT conversion and extension may also add a general purpose lane each way, pending approval by the MUMPO board. MUMPO will go out to the public with a draft TIP, draft LRTP amendments and a draft conformity report after the formal release of the documents in April.
- Gaston UAMPO: The DRAFT LRTP project list and DRAFT TIP are already out for public comment. The comment period ends on February 27 on these documents. Then, we'll take the DRAFT LRTP and DRAFT Conformity documents out for a 30 day public comment period sometime in April (after the TAC approves) for the TAC's approval in June.
- CRMPO: No additional changes to the I2304 project beyond moving it to the 2015 horizon.
- Eddie noted that there is about a 2-month gap at the end of the schedule prior to final Federal Determination. This time could be used to give time for MUMPO to get its projects endorsed, but the intent is to preserve as much of that 2-month period as possible.

OTHER/NEXT STEPS

- Metrolina Regional Modeling and Emissions Analysis.

ACTION ITEMS:

- The Model Team to provide a status update at the next meeting.
- MUMPO TAC to decide whether to add I-77 general purpose lanes to the HOV-HOT conversion project.
- NCDAQ needs the following data from the Metrolina Transportation Partners for SIP development work:
 - Speeds/VMT for 2010, 2013, 2016, 2019 and 2022 needed by the end of February 2011.
- **The next Metrolina Area interagency consultation meeting is scheduled for Wednesday, March 17, 2011, from 2:00pm-3:30pm. The Cabarrus-Rowan MPO will host this meeting.**

Metrolina Region Long-Range Transportation Plan and Conformity Plan

Interagency Consultation (IC) Meeting

ACTION & FOLLOW-UP ITEMS/NOTES

March 17, 2011

ATTENDEES

CDOT: Eldewins, Haynes, Joe McLelland

NCDOT: Jamal Alavi, Mark Smith, Anil Panicker, Shannon Ransome, Linda Dosse, Derry Schmidt

MUMPO: Bob Cook, Nick Polimeni

Cabarrus-Rowan MPO: Phil Conrad

Gaston MPO: Bernie Yacobucci, Jon Barrett

RFATS:

Lake Norman RPO:

Rocky River RPO: Dana Stoogenke

FHWA: Loretta Barren, Eddie Dancausse

NCDAQ: Heather Hildebrandt

SCDHEC:

Kimley-Horn:

EPA: Dianna Smith

SCDOT:

Mecklenburg Co. AQ:

NC Turnpike Authority:

Union Co.:

Introduction

Phil Conrad with the Cabarrus-Rowan MPO welcomed all participants to the 2012-18 TIP update & 2035 LRTP update meeting and reviewed the list of attendees.

ITEMS DISCUSSED:

Review of Action Items

- Eddie Dancausse confirmed, with the concurrence of the attendees, the following:
 - The Model Team will provide a status update on their work to date.
 - Bob Cook will provide an update on the I-77 project(s) for MUMPO.
 - Speeds and VMT have been provided to NCDAQ for the SIP development work.

Status on MPO LRTP/TIP Project Changes

- MUMPO update: Project list changes have all been discussed with the model team. R4902 is shifting to the 2015 horizon with a start in 2013. U5116 will shift to 2015. Charlotte will self-fund U203 (airport entrance

road) and shift to the 2015 horizon. The I-77 HOV-to-HOT conversion and extension may also add a general purpose lane each way, pending approval by the MUMPO board. MUMPO will go out to the public with a draft TIP, draft LRTP amendments and a draft conformity report after the formal release of the documents in April.

- Gaston UAMPO: The public comment period on the DRAFT LRTP project list and DRAFT TIP is complete. Gaston anticipates taking out the DRAFT Conformity documents for a 30 day public comment period sometime in April (after a March TAC approval/release).
- CRMPO: No additional changes to the I2304 project beyond moving it to the 2015 horizon.
- Joe McLelland indicated that it would take approximately 2 weeks for the Travel Model runs and NCDAQ could expect VMT and Speeds by Friday April 1st. Heather Hildebrandt stated that Steven Liu would be doing the Mobile runs.
- Eddie Dancausse reviewed the conformity process schedule. It was indicated that a draft Conformity Report would be available in May. The schedule for adoption may extend beyond the June timeframe.

OTHER/NEXT STEPS

- MUMPO staff stated that the conformity determination for the Street Car project is wrapping up towards completion.

ACTION ITEMS:

- Bob Cook will provide FHWA staff a listing of the MUMPO LRTP/TIP Amendments by 3/25/11.
- The Metrolina Modeling Team will provide VMT & Speeds to NCDAQ by 4/1/11.
- Bernie Yacobucci will provide the Metrolina Modeling Team with the Gaston MPO LRTP/TIP Amendments by 3/25/11.
- FHWA will update the CPS.

The next Metrolina Area interagency consultation meeting is scheduled for Tuesday, April 19, 2011

Metrolina Region Long-Range Transportation Plan and Conformity Plan

Interagency Consultation (IC) Meeting

ACTION & FOLLOW-UP ITEMS/NOTES

April 19, 2011

ATTENDEES

CDOT: Anna Gallup, Joe McLelland

NCDOT: Anil Panicker, Terry Arellano, Linda Dosse, Derry Schmidt

MUMPO: Bob Cook, Nick Polimeni

Cabarrus-Rowan MPO: Phil Conrad

Gaston MPO: Hank Graham

RFATS:

Lake Norman RPO:

Rocky River RPO: Dana Stoogenke

FHWA: Eddie Dancausse

NCDAQ: Heather Hildebrandt, Steven Liu

SCDHEC:

Kimley-Horn:

EPA: Dianna Smith

SCDOT:

Mecklenburg Co. AQ:

NC Turnpike Authority:

Union Co.:

Craig Gresham

Betty Whitley

ITEMS DISCUSSED:

Review of Action Items

- The following action items from the last IC meeting are complete:
 - MUMPO provided FHWA with a list of the MUMPO LRTP/TIP Amendments
 - Gaston MPO provided their LRTP/TIP Amendments to the Metrolina Modeling Team

Metrolina Modeling Team Status

- The modeling/emissions factor/regional emissions analysis work is complete and will be sent to NCDAQ by close of business on 4/19/11.

Consensus Plan and Conformity Schedule

- The following items will be updated on the consensus plan:
 - Page 10, item d, VMT mix: will be changed from 2008 to 2009
 - Page 10, item e, Speeds, will be changed from MRM09v1 or MRM10v1 to MRM11v1

- Page 10, item f, Vehicle Age Distribution, will be changed from 2008 to 2010
- Page 10, Mobile Model Settings Unique to CO Analysis, item h, VMT, will be changed from MRM09v1 or MRM10v1 to MRM11v1
- Page 11, Mobile Model Settings Unique to 8-Hr Ozone RFP SIP, Item j, VMT, will be changed from MRM09v1 to MRM11v1
- The following items will be updated on the conformity schedule:
 - Line ID numbers 37 thru 56

ACTION ITEMS:

- The Model Team will provide the modeling information to NCDQA so they can verify/quality check the emissions factor/emissions calculations by 4/19/11.
 - FHWA will update the CPS and the TCPCP to reflect the IC meeting discussion
 - FHWA will prepare the meeting minutes
- **There is no future IC meeting scheduled. From this point on the IC meetings will be scheduled as needed**

Metrolina Area Transportation Conformity:
Pre-Analysis Consensus Plan (8-Hour Ozone & CO)

NOVEMBER 17, 2010

APRIL 19, 2011

**Prepared Cooperatively Between the
Mecklenburg Union MPO
Cabarrus Rowan MPO
Gaston MPO
North Carolina Department of Transportation
and the
Federal Highway Administration**

**Metrolina Area Transportation Conformity:
Pre-Analysis Consensus Plan**

**November 17, 2010
April 19, 2011**

The Mecklenburg Union Metropolitan Planning Organization (MUMPO), Cabarrus Rowan MPO (CRMPO), Gaston MPO (GMPO) and the North Carolina Department of Transportation (NCDOT-representing rural portions of the Metrolina non-attainment area) are proposing the following plan and procedures to conduct a transportation conformity analysis. This plan is being submitted to the interagency consultation partners for soliciting consensus before commencement of a full-scale transportation conformity analysis. The plans and procedures may be revised as the MPO's and NCDOT proceed with the analysis. After consensus is reached; notification of changes will be made to the interagency consultation partners.

Metrolina Area MPOs:

- Mecklenburg Union Metropolitan Planning Organization (MUMPO)
- Cabarrus Rowan MPO (CRMPO)
- Gaston MPO (GMPO)

Donut Areas:

- Rural portion of Gaston county outside of the MPO area
- Rural portion of Union county outside of the MPO area
- Lincoln County
- Iredell County – partial county

The following pollutants will be included in this conformity determination:

- 8-Hour Ozone (8-hour O₃)
- Carbon Monoxide (CO) – Mecklenburg County

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

1. Existing Land Use and Demographics: For MUMPO, CRMPO, GMPO

Staff collected data as outlined in Attachment A. The partners updated previously collected 2000 base year data to 2005. Population, household, and student enrollment data were updated using locally tracked data (see data sources listed below). Employment data, however, is not tracked locally in a way that can be reliably converted to model input data. In 2002, an economist was contracted to produce population, household, and employment estimates in five-year increments from 2000 to 2035. The Regional partners used the economist's 2005 employment to population ratio estimate to calculate 2005 employment data. The data was allocated to Traffic Analysis Zones (TAZs) based on the previous 2000 data set and local knowledge. Several partners supplemented this process with Employment Security Commission data and / or 2005 Info USA employment data.

Data sources include the following:

- 2000 Census data;
- 2002 InfoUSA employment data;
- 2005 InfoUSA employment data;
- 2005 Employment Security Commission data;
- 2002 Dunn and Bradstreet employment data;
- 2000 Journey to Work data;
- 2000 Census Transportation Planning Package (CTPP) data;
- 2000 Public Use Microdata Sample (PUMS) data
- Bureau of Labor Statistics (BLS) data;
- Bureau of Economic Analysis (BEA) data;
- area school system data;
- building permit data;
- tax data;
- zoning; and
- land use plans

2. LRTP Model Validation (Base) Year:
2005

3. MTIP Years: 2012 – 2018

4. LRTP Horizon Year: 2035

5. LRTP Travel Demand Intermediate Years: 2015 & 2025

6. Transportation Conformity Analysis Years (8-Hour Ozone and CO)
The Table below summarizes transportation conformity analysis methods and years for the different parts of the Metrolina non-attainment/maintenance areas. Specific conformity year information is listed in the following table:

County	Area model status	Area emissions budget status	Emissions analysis source	Emission comparison years ¹			
				2015	2025	2035 Horizon	
Cabarrus	modeled all	8 hr O3 RPF SIP Adequacy effective 3/8/10	TDM ²	O3	O3	O3	O3
Rowan	Modeled all	8 hr O3 RPF SIP Adequacy effective 3/8/10	TDM ²	O3	O3	O3	O3
Gaston	Modeled all	8 hr O3 RPF SIP Adequacy effective 3/8/10	TDM ²	O3	O3	O3	O3
Mecklenburg	Modeled all	8 hr O3 RPF SIP Adequacy effective 3/8/10	TDM ²	CO O3	CO O3	CO O3	CO O3
Union	Modeled all	8 hr O3 RPF SIP Adequacy effective 3/8/10	TDM ²	O3	O3	O3	O3
Lincoln	Modeled all	8 hr O3 RPF SIP Adequacy effective 3/8/10	TDM ²	O3	O3	O3	O3
Iredell (part)	Modeled all	8 hr O3 RPF SIP Adequacy effective 3/8/10	TDM ²	O3	O3	O3	O3

¹ O3 attainment date is 2010 will be a past year in 2011 when we complete this conformity process so it will not be required for this analysis. According to a

conversation with EPA on 11/10/10, we would be ok with using the 2010 attainment date even if the 1-yr extension is approved because the attainment date would be June 15, 2011 and 2010 data is used for that attainment year. We have the option of choosing 2010 or 2011 as the attainment year and for the last conformity process we chose 2010.

² The baseyear of the MRM is 2005

Additional table notes and explanations:

County:

- ❑ Ozone: The Metrolina ozone non-attainment area consists of 6 whole counties (Mecklenburg, Union, Cabarrus, Rowan, Gaston, and Lincoln) plus one partial county (Iredell). The ozone non-attainment area includes four donut areas (Union, Gaston, Lincoln and Iredell-partial) represented by the NCDOT in cooperation with the Lake Norman Rural Planning Organization (RPO) and the Rocky River RPO.
- ❑ CO: The Metrolina CO maintenance area consists of one whole county (Mecklenburg)

**Note: a donut area is an area outside the MPO boundary but within the non-attainment/maintenance area.*

Model Status: Mecklenburg, Union, Cabarrus, Rowan, Gaston, and Lincoln, plus one partial county (Iredell) are completely within the Metrolina Regional Model (MRM) boundary.

Emissions analysis years: The Metrolina area has a RFP SIP for the 8-hour ozone standard and a maintenance SIP for the CO standard.

Emission analysis source: The VMT and speeds for the regional emissions analysis (REA) will be derived from the MRM.

Emission Comparison Years:

- ❑ Motor Vehicle Emissions Budget Test
 - **(RFP 8-hour ozone SIP):** 8-hour ozone (*Mecklenburg, Gaston, Cabarrus, Rowan, Iredell-partial, Lincoln, Union*)
 - 2015 (modeled-compare to 2008 MVEB), 2015 (modeled-compare to 2008 MVEB), 2025 (modeled-compare to 2008 MVEB) and 2035 (modeled-compare to 2008 MVEB)
 - **CO (*Mecklenburg*):** 2015 (modeled-compare to 2015 MVEB), 2025 (modeled-compare to 2015 MVEB) and 2035 (modeled-compare to 2015 MVEB)

List of Specific Conformity Years (RFP 8-hour ozone SIP)

- a. Horizon: 2035

- b. RFP SIP MVEB Year: 2008
- c. Emission comparison years (NOx): 2015, 2025 & 2035

List of Specific Conformity Years (CO SIP)

- a. Horizon: 2035
- b. SIP Budget Years: 2015 (new SIP)
- c. Emission comparison years: 2015, 2025 & 2035

7. Non-attainment / Maintenance Counties:

- **CO Maintenance: Mecklenburg County**
- 8 Hour Ozone Non-attainment Area: Gaston Co., Mecklenburg Co., Cabarrus Co., Rowan Co., Union Co., Lincoln, and the southern portion of Iredell County (Coddle Creek and Davidson Townships)

8. Land-Use Demographics Projections/Forecast:

In 2002, an economist was contracted to produce population, household, and employment estimates in five-year increments from 2000 to 2035. The economist's forecasting model is calibrated statistically to 1990-2000 data for 228 metropolitan counties in the eastern US. Refer to *Demographic and Economic Forecasts for the Charlotte Region*, December 8, 2003, by Thomas R. Hammer, Ph.D. for more detailed information. Staff used the economist's report to benchmark projections for the five-year increments, and the regional partners came to a consensus on the regional projections. The regional partners agreed to a regional population ceiling of 3.5 million for 2035. Final population projections were substantially lower than this ceiling. The Regional partners primarily relied on the employment estimates from the economist.

MPO and RPO staff projected population, household, and employment data for 2015, 2025, and 2035 through a top-down forecasting approach. Qualitative inputs to the projections process include future land use plans, building permits data, transportation plans and other capital improvements plans. These resources were used to geographically allocate growth by traffic analysis zone across the region. The final and most important qualitative input was "planners' judgment", meaning the collective knowledge of planning officials and staff about the development patterns and development potential of specific areas within their jurisdictions. MPO staff reviewed projections by county or city with local planners and presented population and employment density maps to technical and elected boards.

Refer to **Attachment A** for the list of variables projected for use in the travel demand model.

9. Travel Demand Model: Metrolina Regional Model (MRM)

The regional travel demand model is a four-step model developed for a 2-state, 11- county (9 whole, 2 partial) region (refer to [Attachment B](#)). The modeling area encompasses 4 MPOs and 2 RPOs.

As described previously, a multitude of land use and demographic data was collected as input into the model. Additional data collected includes transit and highway network data as well as multiple travel surveys. Transit data collected includes routes, headways, and travel times. Refer to [Attachment C](#) for the highway network data dictionary. Following is a list of the travel surveys completed:

- 2001 External Travel Survey;
- 2002 Household Travel Survey;
- 2003 Workplace Survey; and
- 2009 On-board Transit Survey of Express and Local Buses and South Corridor Light Rail Transit (LRT) Survey and Counts

The model team has implemented several improvements to the Metrolina Regional Model. Improvements that potentially affect VMT and travel speeds include:

- 2005 calibration using TransCAD 5.0, 2005 socio-economic data, and 2005 count data;
- Mode choice model calibrated to the 2009 on-board transit survey and count data, to reflect recent ridership information related to the CATS LRT project, which opened in November 2007.

A number of other improvements were implemented to improve model operating speed and efficiency. Minor network and modeling errors and bugs have been repaired when identified.

10. Mode Split / Mode Choice:

The nested logit mode-choice model is structured similar to the Houston-Galveston Area Council's regional travel model. Nesting and mode constants were developed using CATS's on-board ridership survey conducted in 2009.

Transit paths include in-vehicle travel time, out-of-vehicle time (walking / driving and waiting), transfers, and direct cost (fare, parking). Four trip purposes are modeled. For the Home-Based Work, Home-Based-Other, and Home-Based University trip purposes, the potential transit Council's regional travel model. Nesting and mode constraints were developed using CATS's on-board ridership survey conducted in 2009.

Walk, drive, and drop-off approaches are handled in the nesting structure. Parking is provided at selected suburban stations.

The mode choice model was developed under contract with AECOM Consult

11. Local Street Count & VMT Estimate:

Vehicle miles of travel (VMT) – the sum of the distance that each vehicle travels during a specified period (day, year, etc.) – is the most typical measure of the level of travel in an area. Like most statistics, it is still impossible to actually measure. To do so, *all* vehicles would have to be monitored all day. The most common method of estimating VMT uses traffic counts. We have a large count database from CDOT, NCDOT, and SCDOT including counts from 2000 – 2006. Each count will be factored to the base year (2005). Average Daily Traffic volumes will be factored to Average Weekday volumes. The adjusted base-year weekday counts are then aggregated by County and functional class. The average (mean) volume for each county / functional class will be multiplied by the number of road miles to obtain VMT. For future year estimates, the travel demand model, calibrated to the base year counts and VMT, will provide VMT for thoroughfares (VMT = assigned volume * length).

Local streets make up 60%-70% of the roadway miles, but a much smaller fraction of VMT. Most serve to accumulate traffic from neighborhoods. The bulk of the trip is then made on thoroughfares (that are modeled). Few local streets are included in the model. Counts are sporadic and usually concentrated on local streets experiencing traffic problems. Many of the local streets are represented by zonal centroid connectors in the model. We will use the centroid connectors times 2 to better approximate actual local VMT. VMT derived with this method compares favorably with local VMT estimated using street miles and assumed volumes. The centroid method provides a better method of relating VMT to high growth TAZs.

12. Rural (Donut) Area Projects

The rural areas do not develop long range transportation plans like the MPOs. The rural area's projects that are included in the conformity regional emissions analysis (REA) come from the State TIP. It is NCDOT's position that projects that are in the State TIP and have right of way or construction phases scheduled in the first seven years should be included in the REA. In addition, for rural areas adjacent to an MPO the MPO may extend projects outside their boundary to a logical terminus. The MPO may include the portion outside of their MPO boundary in the financial element of their LRTP.

13. VMT Adjustments:

No VMT adjustments

14. Motor Vehicle Emissions Budgets

The Metrolina area is non-attainment for the 8-hour ozone standard (Gaston, Mecklenburg, Cabarrus, Rowan, Union, Lincoln, Iredell County (part)) and maintenance for the CO standard (Mecklenburg).

- a. Current SIP: Mecklenburg County is maintenance for the Carbon Monoxide (CO) standard. A MVEB was established for 2015 and emission limits based on the MVEB is indicated below:

CO: Current CO SIP (tons/day)				
Area	Comparison Year			
	2015	2025	2035	
Mecklenburg	470.18	470.18	470.18	

***The MVEB for 2015 will be used for the 2025 and 2035 comparison since 2015 is the last year that a MVEB is provided for CO*

- b. RFP 8-hour Ozone SIP MVEBs. The Metrolina area is non-attainment for the 8-hour ozone standard (Cabarrus, Gaston, Iredell, Lincoln, Mecklenburg, Rowan, and Union). The proposed RFP SIP has MVEBs for NOx and VOCs.

NOx: RFP 8-hour Ozone SIP (kilograms/day)				
Area	Comparison Year			
	2015	2025	2035	
Cabarrus	7324	7324	7324	
Gaston	7647	7647	7647	
Iredell*	5637	5637	5637	
Lincoln	2948	2948	2948	
Mecklenburg	34526	34526	34526	
Rowan	7193	7193	7193	
Union	5660	5660	5660	

VOC: Proposed 8-hour Ozone RFP SIP (kilograms/day)				
Area	Comparison Year			
	2015	2025	2035	
Cabarrus	6941	6941	6941	
Gaston	5132	5132	5132	
Iredell*	3601	3601	3601	
Lincoln	2726	2726	2726	
Mecklenburg	26368	26368	26368	

Rowan		6149	6149	6149
Union		6299	6299	6299

**Iredell County is a partial county*

15. Control Strategies: Emission reduction credits will be taken for the following on-road mobile SIP commitments or Federal programs. Currently there are no TCMs in the Metrolina Area SIPs.

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

16. Mobile Source Emission Reduction Strategies: The MPO's will take emission credits for the following Mobile Source Emission Reduction Strategies.

Strategy	Approach	Year(s) Credited
<i>Park-n-Ride Lots:</i>	<i>Off model</i>	<i>2015, 2025, 2035</i>
<i>Vanpools:</i>	<i>Off Model</i>	<i>2015, 2025, 2035</i>
<i>ITS</i>	<i>Off Model</i>	<i>2015, 2025, 2035</i>

17. Mobile Model Settings: The following model-input parameters will be used in the conformity analysis.

- ❑ **Eight Hour Ozone Nonattainment Area:** Cabarrus, Gaston, Lincoln, Mecklenburg, Rowan, Union Counties, and the southern portion of Iredell County (Coddle Creek and Davidson Townships)
- ❑ **CO Maintenance Area:** Mecklenburg County

Mobile 6.2 Model
Charlotte Region MPOs/RPOs (rural area)

Mobile Model Settings common for all analyses: The following MOBILE model-

input parameters will be used in the conformity analysis.

Parameter	Details	Data Source
a. <i>Emissions Model Version(s):</i>	Mobile 6.2	
b. <i>Time Periods:</i>	4 times of day: See item #24 below	
c. <i>Vehicle Classes:</i>	16	
d. <i>VMT mix:</i>	The 2009 count data will be used to generate the statewide VMT mix using the August 2004 USEPA guidance methods. This statewide VMT mix will be adjusted with the Metrolina local data. For interstates and freeways, the Statewide mix will be used since there is no local data available for these road types. <i>(There is the possibility that there will be updated 2009 data available for use. If it is available it will be used for the regional emissions analysis)</i>	
e. <i>Speeds:</i>	Regional Model MRM11v1	
f. <i>Vehicle age distribution:</i>	The vehicle age distribution will be based on 2010 registration data. <i>(There is the possibility that there will be updated 2009 data available for use. If it is available it will be used for the regional emissions analysis)</i>	
g. <i>I/M Program:</i>	none OBD-II for 2015, 2025 and 2035 runs in all Metrolina Counties.	
h. <i>Anti-tampering Applicability:</i>	Applies to vehicles 35 years and newer <ul style="list-style-type: none"> • 2015 run: 1981 and newer • 2025 run: 1991 and newer • 2035 run: 2001 and newer 	
i. <i>Strategies:</i>	None	
j. <i>I/M Fraction:</i>	Cabarrus 94%, Gaston 91%, Iredell 86%, Lincoln 97%, Mecklenburg 90%, Rowan 93%, and Union 89%.	
k. <i>Vehicle Starts Data</i>	Local Data	

Mobile Model Settings unique to CO analysis: The following MOBILE model-input parameters will be used in the conformity analysis.

Parameter	Details	Data Source
a. <i>Emission Model Runs:</i>	Typical Winter Weekday	
b. <i>Pollutants Reported:</i>	CO	
c. <i>Emissions Budget Years:</i>	2015	
d. <i>Emissions Analysis Years:</i>	2015, 2025, 2035	
e. <i>Max/Min Temperature:</i>	50.0 max & min	
f. <i>RVP:</i>	15.0 psi	

- g. *Evaluation month:* January
- h. *VMT:* Regional Model **MRM11v1**

Mobile Model Settings unique to 8-hr Ozone RFP SIP: The following MOBILE model-input parameters will be used in the conformity analysis.

Parameter	Details	Data Source
a. <i>Emission Model Runs:</i>	Typical Summer Weekday	
b. <i>Pollutants Reported:</i>	VOC and NOx	
c. <i>Emissions Budget Years:</i>	2008	
d. <i>Emissions Analysis Years:</i>	2015, 2025, 2035	
e. <i>Hourly Temperatures:</i>	July 2002 average temperature from Charlotte Douglas International airport for 24 hours for NOx and VOC for all counties.	
f. <i>Relative Humidity (RH):</i>	July 2002 average relative humidity from Charlotte Douglas International airport for 24 hours for NOx and VOCs for all counties.	
g. <i>Barometric Pressure:</i>	30	
h. <i>RVP:</i>	7.8 psi for Gaston and Mecklenburg 9.0 psi for the remaining counties	
i. <i>Evaluation month:</i>	July	
j. <i>VMT:</i>	Regional Model MRM11v1 No VMT normalization	

The actual temperature & RH profiles discussed above are provided below:

Gaston County 6-yr average July RH profile based on 1-hr SIP temperatures:

VOC

RELATIVE HUMIDITY : 100. 100. 100. 91. 76. 65. 58. 54. 53. 53. 54. 57.
62. 69. 75. 83. 88. 93. 98. 100. 100. 100. 100.

100.

NOx

RELATIVE HUMIDITY : 100. 100. 96. 80. 65. 55. 49. 45. 44. 44. 45. 48.
52. 58. 65. 72. 77. 80. 86. 90. 93. 96. 97. 99.

Mecklenburg County 56-yr average July RH profile based on 1-hr SIP temperatures:

VOC

RELATIVE HUMIDITY : 100. 100. 93. 79. 66. 56. 49. 46. 44. 44. 45. 48.
52. 58. 65. 71. 75. 81. 85. 88. 92. 94. 95. 99.

NOx

RELATIVE HUMIDITY : 92. 92. 83. 69. 56. 48. 41. 38. 37. 36. 37. 39.
40. 49. 56. 61. 65. 71. 75. 78. 82. 84. 85. 89.

Donut area 56-yr average July temperatures:

HOURLY TEMPERATURES: 67.7 69.5 73.0 75.7 77.9 80.2 81.8 82.6 83.7 84.0 83.3
82.4
80.7 78.4 76.1 74.4 72.7 71.7 70.6 69.5 68.9 68.1 67.2
67.1

Temperature and RH profiles used in 8-hr Ozone SIP budgets:

HOURLY TEMPERATURES: 71.0 73.8 77.0 80.3 82.5 85.4 87.3 88.5 89.1 88.5 89.6
89.2

86.3 82.6 77.8 77.5 76.2 75.9 75.0 74.0 73.2 82.3 71.6
71.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

18. Emissions analysis units, conversion factors, significant figures, rounding and truncating conventions:

Units= Kilograms or Grams

Grams to tons conversion factor= Divide x grams by 907184.7 to get tons

Round to 2 decimal places

CO: use 2 decimal places

1 Hour Ozone (VOC & NOx): 1 decimal place

19. CMAQ Projects: The Metrolina area MPOs/RPOs will include a spreadsheet in the conformity documentation showing status of funded CMAQ projects, including emission reductions for each, amount of funding for each project, and implementation dates. **This has been completed for the conformity process completed on 5/3/10.**

20. Regionally Significant Projects (Federal and Non Federal): **This has been completed for the conformity process completed on 5/3/10.**

21. List of Exempt Projects and Non-Regionally Significant Projects (Federally Funded): The Metrolina area MPOs/RPOs will identify exempt projects according to the Conformity Regulation (40 CFR 93.126) and non-regionally significant projects as a backup plan in the event of a conformity lapse. A discussion on the purpose of this can be a part of the conformity determination report (CDR) and the list of projects can be added as an appendix in the CDR. **This has been completed for the conformity process completed on 5/3/10.**

22. Conformity Schedule: *(A draft conformity schedule has been developed and is provided as an attachment to this document)*

23. Conformity Determinations: Four organizations will be responsible for making conformity determinations in four distinctive parts of the Metrolina non-attainment/maintenance areas:

- i. The MUMPO within its metropolitan area boundary (MAB) - all of Mecklenburg County and part of Union County
- ii. The GMPO within its metropolitan area boundary-a part of Gaston County

- iii. The CRMPO within its metropolitan area boundary-all of Cabarrus and Rowan Counties
- iv. The NCDOT for the rural areas comprised of those parts of Gaston and Union Counties that are outside of any MPO MAB, part of Iredell County, and all of Lincoln County

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

24. Other

- Any reference to York County in this document has been removed since EPA has made the 8-hour ozone designations. Although a portion of York County, South Carolina was designated as part of the bi-state Charlotte 8-hour ozone nonattainment area, they are allowed to demonstrate transportation conformity independent of the North Carolina portion of this nonattainment area. Therefore, the planning assumptions and methodologies used for the York County, South Carolina portion of this nonattainment area is reflected in a separate transportation conformity determination that is generated by the Rock Hill-Fort Mill Area Transit Study Metropolitan Planning Organization.
- The techniques used for this conformity process are the following:
 - VMT and speed will be done for 4 times of day (the 4 times of days are summed for the regional emissions analysis)
 - 6:30 am - 9:30 am
 - 9:30 am - 3:30 pm
 - 3:30 pm - 6:30 pm
 - 6:30 pm - 6:30 am
 - Off model work (applied to all scenarios):
 - ITS enhanced
 - Signal System
 - Vanpool
 - Updated starts from the new model were added

25. SAFETEA-LU COMPLIANT LRTP UPDATE - FHWA Review and Validation FHWA planner (Loretta Barren) will be in contact with the Metrolina Area MPOs to determine the timeline for this review and validation. **This has been completed for the conformity process completed on 5/3/10.**

Metrolina Area Draft CPS - 4.19.11
12-18 TIP Transportation Conformity Process

Line ID#	Conformity Elements	Schedule Summary			Line ID#	Participating Organizations and Staff (lead staff in bold)
		Start Date	End Date	Length (Days)		
1	Project start --			NA	1	
2	Interagency consultation (IC)			#VALUE!	2	
3	IA planning session #1			#VALUE!	3	
4	Set IA meeting date (location, etc.)				4	
5	Develop participant list				5	
6	Discuss draft agenda				6	
7	Discuss TCPCP				7	
8	Discuss CPS				8	
9	IC planning session #2 TBD			#VALUE!	9	
10	Review draft agenda				10	
11	Review TCPCP				11	
12	Review CPS				12	
13	Prepare presentations				13	
14	Email Agenda, draft TCPCP and draft CPS to IC partners			1	14	
15	IC Meeting -- Select a date in this time range	10/17/10	10/17/10	1	15	Dancausse, Alavi
16	Meeting Minutes			1	16	MPOs: Cook, Conrad, Graham
17	Circulate and Review meeting minutes			1	17	Dancausse
18	Follow up to address comments			1	18	Dancausse
19	Transportation Planning	12/01/10	01/31/11	62	19	MPOs, RPOs, NCDOT
20	<i>Transportation Projects, Timelines, Fiscal Constraint</i>				20	
21	MPO TCCs develop and refine draft LRTP project list				21	
22	MPO TACs receive & review the draft project list LRTP-for-comment				22	
23	MPO TACs (or TCCs) approve LRTP/TIP Amendments project list MUMPO: 01/19/11 , CRMPO: 01/26/11 , GUMPO: 01/25/11	01/19/11	01/26/11	8	23	
24	Transportation Modeling (50 days)	02/01/11	04/19/11	78	24	NCDOT, NCDOT Consultant
25	Base year network and land use (2005)				25	
26	Horizon year 1 network and land use				26	
27	Horizon year 2 network and land use				27	
28	Design Year network and land use -- 2035				28	
29	Develop plan version for initial air quality analysis				29	
30	Extract draft plan VMT and speeds				30	
31	Evaluate draft plan speeds and VMT				31	
32	Preliminary Regional Emissions Analysis				32	
33	Emission Factors Review (additional iterations, if needed)				33	
34	Extract Final VMT and speeds				34	
35	Evaluate final speeds and VMT				35	MPOs, RPOs, NCDOT, Consult.
36	Modeling Complete (Includes Emission Factor & REA)		04/19/11		36	

37	Emission Analysis	04/20/11	05/11/11	22	37	NCDOT, NCDOT Consultant
38	NCDQAQ Emission Factor Review	04/20/11	05/11/11	22	38	NCDQAQ Hildebrandt
39	Off model analysis, including off-model TDM- not applicable	xx/xx/xx	xx/xx/xx		39	
40	REA Review	04/20/11	05/11/11	22	40	NCDOT, NCDOT Consultant
41	Conformity Report Preparation	04/11/11	05/13/11	33	41	Alavi
42	Preliminary report preparation	04/11/11	05/13/11	33	42	Alavi
43	Prepare pre-draft report			1	43	Alavi
44	Print pre-draft report			1	44	Alavi
45	Internal Review pre-draft			#VALUE!	45	Alavi
46	Agency Review (EPA/FTA/NCDQAQ/FHWA) of pre-draft CDR			1	46	Dancausse
47	Respond to Agency Comments			1	47	Alavi, MPOs/RPOs/NCDOT
48	Distribution	05/13/11	05/13/11	1	48	Alavi
49	TACs release conformity draft and LRTP update for public comment: MUMPO: 4/27/11 , CRMPO: 04/27/11 , GUAMPO: 4/26/11 , LN RPO xx/xx/11 , RR RPO xx/xx/11	04/20/11	04/27/11	8	49	MPOs, RPOs
50	Interagency and public review	05/16/11	06/17/11	33	50	Dancausse
51	DENR Review	05/16/11	06/06/11	22	51	Hildebrandt
52	FHWA Initial Review	05/16/11	06/06/11	22	52	Dancausse
53	FTA Initial Review	05/16/11	06/06/11	22	53	Melton
54	EPA Initial Review	05/16/11	06/06/11	22	54	Smith
55	Public Review (MPOs and RPOs)	05/16/11	06/17/11	33	55	MPOs, RPOs
56	Respond to Agency and Public Comments	06/20/11	06/21/11	2	56	MPOs, RPOs
57	MPO & Rural Conformity Determination	06/22/11	07/26/11	35	57	Alavi
58	TACs Adopt Final LRTPs with AQ conformity-public hearing MUMPO: 7/20/11 , CRMPO: 6/22/11 GUAMPO: 7/26/11 , LN RPO xx/xx/11, RR RPO xx/xx/11	07/11/11	07/26/11	16	58	MPOs
59	NCDOT Secretary issues conformity letter for rural area	07/11/11	07/26/11	16	59	NCDOT, RPOs
60	Conformity analysis, report and review complete	07/27/11	07/26/11	0	60	
61	Distribution	07/29/11	08/01/11	4	61	Alavi
62	Federal Action	08/01/11	09/30/11	61	62	Dancausse
63	Transmit Report to FHWA/TPB	08/01/11	08/05/11	5	63	Alavi
64	FHWA transmit report to EPA & FTA	08/08/11	08/08/11	1	64	Dancausse
65	USDOT Determination	08/09/11	09/30/11	53	65	Dancausse
66	USDOT Letter to State/MPO	10/03/11	10/03/11	1	66	Dancausse
67	Process Complete	09/30/11	09/30/11	1	67	
68	Conformity Process Complete -- September 30, 2011	09/30/11	NA	NA	68	

CPS Version Date 4.19.11

