

## **ITEM 14 - NOTICE**

May 20, 2009

### Notice of Proposed Draft Scope of Work for Air Quality Conformity Assessment for An Amendment to the 2009 CLRP and FY 2010-2015 TIP

#### **Staff**

**Recommendation:** Review proposed draft scope of work for the air quality conformity assessment required for the amendment to the 2009 CLRP and FY 2010-2015 TIP to include the projects described in items 12 and 13 above.

**Issues:** None

**Background:** The 2009 CLRP and FY 2010-2015 TIP are scheduled to be adopted by the TPB on July 15, 2009. MDOT and DDOT have requested that the TPB initiate the process to amend the 2009 CLRP and FY 2010 TIP to include the Purple Line Light Rail Project and the transportation components associated with the "Return to L'Enfant" development over I-395.

Following a public comment period which ends on June 13, the Board will be asked to approve the project submissions and the air quality conformity analysis scope of work for the plan and TIP amendment at the June 17, 2009 meeting. The draft conformity results for the amendment are scheduled to be released for public comment on September 10, and the TPB is scheduled to adopt the CLRP and TIP amendment and conformity analysis at its October 21, 2009 meeting.

Comments may be provided to the TPB in writing, at the TPB web site: "[mwcog.org/transportation](http://mwcog.org/transportation)," or during the public comment period provided prior to each TPB meeting.

May 13, 2009

**AIR QUALITY CONFORMITY ASSESSMENT  
AMENDMENTS TO THE 2009 CONSTRAINED LONG RANGE PLAN AND  
THE FY2010-2015 TRANSPORTATION IMPROVEMENT PROGRAM**

**DRAFT SCOPE OF WORK**

**I. INTRODUCTION**

The Maryland Department of Transportation (MDOT) and the District Department of Transportation (DDOT) each requests an amendment to the 2009 Constrained Long Range Plan (CLRP). MDOT's is for the construction of the Purple Line from New Carrollton to Bethesda. DDOT's is for a proposed development in the air rights over I-395 between E St. and Massachusetts Ave. NW, which includes some transportation components. The 2009 CLRP and FY2010-2015 TIP are scheduled to be adopted by the Transportation Planning Board (TPB) in July, 2009. Both amendments affect the air quality conformity analysis, and will therefore require a new demonstration of air quality conformity before they can be adopted as plan and program elements by the Transportation Planning Board (TPB).

This scope of work reflects the tasks and schedule designed for the air quality conformity assessment leading to adoption of the amended plan and program. This work effort addresses requirements associated with attainment of the ozone standards (volatile organic compounds (VOC) and nitrogen oxides (NO<sub>x</sub>) as ozone precursor pollutants), and fine particles (PM<sub>2.5</sub>) standards (direct particles and precursor NO<sub>x</sub>), as well as maintenance of the wintertime carbon monoxide (CO) standard.

The amended plan and program must meet air quality conformity regulations: (1) as originally published by the Environmental Protection Agency (EPA) in the November 24, 1993 Federal Register, and (2) as subsequently amended, most recently on January 24, 2008, and (3) as detailed in periodic FHWA / FTA and EPA guidance. These regulations specify both technical criteria and consultation procedures to follow in performing the assessment.

This scope of work provides a context in which to perform the conformity analyses and presents an outline of the work tasks required to address all regulations currently applicable.

**II. APPROACH**

The analytical approach is the same as that currently being applied in the air quality conformity assessment of the 2009 CLRP and FY2010-2015 TIP, scheduled for approval by the TPB in July 2009, which is outlined in the summary table below.

**TABLE 1 – Summary of Technical Approach**

	<b>Ozone</b>	<b>Wintertime CO</b>	<b>PM<sub>2.5</sub></b>
<b>Pollutant:</b>	VOC, NOx	CO	Direct particles, Precursor NOx
<b>Emissions Assessment Criteria:</b>	Existing 1-hour ozone budgets & 8-hour ozone budgets	Approved wintertime CO emissions budget	Reductions from base 2002 inventory & comparison to budgets
<b>Emissions Analysis Time-frame:</b>	Daily	Daily	Annual
<b>Geography:</b>	1-hour ozone non-attainment area 8-hour ozone non-attainment area (1-hr. area less Stafford)	DC, Arl., Alex., Mont., Pr. Geo.	1-hr. area less Stafford and Calvert counties
<b>Network Inputs:</b>	Regionally significant projects		
<b>Land Activity:</b>	Round 7.2a		
<b>Modeled Area:</b>	Expanded Cordon (2191 zone)		
<b>Travel Demand Model:</b>	Version 2.2		
<b>Mobile Model:</b>	MOBILE6.2 emissions factors, consistent with the procedures utilized to establish the VOC and NOx mobile source emissions budgets	MOBILE6.2 Consistent with procedures used to establish the budget	MOBILE6.2 'Seasonal' approach, consistent with procedures used to establish the budget
<b>Emissions Factor Refinements:</b>	Use of 2008 vehicle registration data for all jurisdictions		

### III. CONSULTATION

A 30 day public comment / interagency consultation period followed by response to comments will be provided for the following milestones:

- Project review
- Air quality conformity scope of work
- Conformity report

#### IV. WORK TASKS

1. Prepare forecast year highway and transit networks
  - 2010, 2020, 2030
2. Review and update land activity files
  - Round 7.2a
3. Prepare 2010 travel and emissions estimates
  - Execute travel demand modeling
  - Calculate emissions (daily for ozone season VOC and NO<sub>x</sub> for ozone standard requirements; daily for winter CO; yearly for PM<sub>2.5</sub> direct particles and precursor NO<sub>x</sub>)
4. Prepare 2020 travel and emissions estimates
  - Execute tasks as in 2010 analysis, execute toll processes
5. Prepare 2030 travel and emissions estimates
  - Execute tasks as in 2020 analysis
  - Apply “transit constraint” using 2020 levels
6. Analyze results of above technical analysis
  - Reductions from 1990 (ozone season VOC and NO<sub>x</sub> and winter CO) and 2002 base (ozone season VOC and NO<sub>x</sub>, winter CO, and PM<sub>2.5</sub>)
  - 1-hour and 8-hour ozone season VOC and NO<sub>x</sub> budgets, direct PM<sub>2.5</sub> and precursor NO<sub>x</sub> budgets, and winter CO emissions budgets
7. Assess conformity and document results in a report
  - Document methods
  - Draft conformity report
  - Forward to technical committees, policy committees
  - Make available for public comment and interagency consultation
  - Receive comments
  - Address comments and present to TPB for action
  - Finalize report and forward to FHWA and FTA

May 13, 2009

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AMENDMENTS TO THE 2009 CONSTRAINED LONG RANGE PLAN  
AND THE FY2010-2015 TRANSPORTATION IMPROVEMENT PROGRAM**

**PROPOSED SCHEDULE**

May 1, 2009	TPB Technical Committee briefed on proposed amendments
May 14, 2009	Project descriptions and conformity analysis scope of work released for public comment
*May 20, 2009	TPB briefed on proposed amendments and conformity analysis scope of work
June 13, 2009	Public comment period ends
*June 17, 2009	TPB approves proposed project inputs and conformity analysis scope of work
* <i>July 15, 2009</i>	<i>TPB scheduled to adopt 2009 CLRP and FY2010-2015 TIP and conformity analysis</i>
September 10, 2009	Draft conformity results for amendment released for public comment
*September 16, 2009	TPB briefed on draft conformity results
October 10, 2009	Public comment period ends
*October 21, 2009	TPB reviews public comments and responses to comments, and adopts conformity analysis, 2009 CLRP, and FY2010-2015 TIP amendments
* TPB meeting	

## STAFFING / BUDGET

	<u>Person Days</u>		
Director	5		
Senior Engineer	60		
Engineer II	14		
Total Salary			
	Direct	\$	26,400
	M & A	\$	6,600
	Leave Additive	\$	6,270
Fringe		\$	7,860
Indirect		\$	16,970
<b>Total Project Cost</b>		<b>\$</b>	<b>64,100</b>