

Item #7

## Draft FY2016 UPWP Systems Management Planning Tasks

Andrew J. Meese, AICP  
Systems Management Planning Director  
Metropolitan Washington Council of Governments  
National Capital Region Transportation Planning Board

MOITS Technical Subcommittee  
January 6, 2015

## Overview

### 2. COORDINATION AND PROGRAMS

- A. Congestion Management Process
- B. Management, Operations, and ITS Planning
- C. Emergency Preparedness Planning
- D. Transportation Safety Planning

#### I. MATOC Program Planning Support

### 5. TRAVEL MONITORING

- B. Congestion Monitoring and Analysis

2

## 2.A. Congestion Management Process

- Summary:
  - Systematic management of traffic congestion and provision of information on system performance
  - Federally required component of metropolitan planning
- Highlights:
  - Congestion and reliability aspects of performance measurement
  - Examination of congestion management strategies
  - Vehicle Probe Data Users Group
  - 2016 CMP Technical Report
- New/changed:
  - Continued support and conduct of the Vehicle Probe Data Users Group (begun in FY2015)
  - Provide congestion management-related performance information for new (external to MOITS) Task 1.F. on performance-based planning

3

## 2.B. Management, Operations and ITS (MOITS) Planning

- Summary:
  - Integrated strategies to optimize the performance of existing infrastructure through the implementation of multimodal and intermodal, crossjurisdictional systems, services, and projects designed to preserve capacity and improve security, safety, and reliability of the transportation system (MAP-21 definition)
- Highlights:
  - Technology and systems; ITS Architecture
  - Traffic signals, including emergency and resilience information
  - MOITS Technical Subcommittee and Traffic Signals Subcommittee
  - Long-range planning advice to MATOC Program
  - Address MAP-21 regulations related to MOITS
- New/changed:
  - Provide reliability-related performance information for new (external to MOITS) Task 1.F. on performance-based planning
  - Emerging topic of transportation system resilience

4

## 2.C. Transportation Emergency Preparedness Planning

- Summary:
  - UPWP contribution toward transportation sector’s role in overall regional emergency preparedness planning
- Highlights:
  - Transportation Regional Emergency Support Function (RESF), one of 16 such functions
  - Transportation participation in the Urban Area Security Initiative (UASI) and other U.S. Department of Homeland Security-driven activities
- New/changed:
  - Coordination with the regional homeland security Program Management Office (PMO) established at COG in CY 2014

5

## 2.D. Transportation Safety Planning

- Summary:
  - Regional collaboration on safety aspects of the region’s transportation systems
  - Federally-required safety element of the CLRP
- Highlights:
  - Data compilation and analysis
  - “Safety Element” of the CLRP
  - Coordination with Street Smart Campaign (funded outside UPWP)
  - Transportation Safety Subcommittee
  - Address MAP-21 safety performance measurement regulations
- New/changed:
  - Provide safety-related performance information for new (external to MOITS) Task 1.F. on performance-based planning

6

## 2.I. MATOC Program Planning

- Summary:
  - TPB planning support for the MATOC Program, for MATOC role in regional operations coordination and information sharing
- Highlights:
  - TPB participation on MATOC Steering Committee
  - Coordination with MATOC operations staff, and MATOC committees on roadways, transit, severe weather, construction coordination, and information systems
  - Coordination with Regional Integrated Transportation Information System (RITIS)
- New/changed:
  - Advising continuous improvement to systems and processes
  - Participation in the MATOC Construction Coordination Working Group established in CY 2014

7

## 5.B. Congestion Monitoring and Analysis

- Summary:
  - Supply data for the Congestion Management Process (CMP) and Models Development
- Highlights:
  - Follow-up on triennial aerial survey of the region’s freeways; maintain data and photographic record
  - Detailed data analysis in support of CMP on freeways and arterials
  - Compilation of probe-based roadway speeds data
- New/changed:
  - Examine additional emerging probe-based/private sector data sources

8

# Comparative Committee Activities

	<b>MOITS</b>	<b>MATOC</b>	<b>RESF-1</b> Emergency Transportation Committee	<b>TRANSPORTATION SAFETY SUBCOMMITTEE</b>
<b>REPORTING</b>	Advisory subcommittee to the <b>MPO</b> (TPB)	<b>Independent</b> organization with its own Steering Committee made up of state DOTs, WMATA (external to the MPO)	Advisory subcommittee to the <b>COG Board</b> / public safety committee structure (not MPO/TPB)	Advisory subcommittee to the <b>MPO</b> (TPB)
<b>COMMITTEE STRUCTURE</b>	Reports up to <b>TPB Technical Committee</b> ; supported by Traffic Signals, ITS Architecture, and Traveler Information Subcommittees	<b>MATOC Steering Committee</b> (DDOT, MDOT, VDOT, WMATA); supported by Subcommittees on Operations, Transit, Severe Weather, & Information Systems	Reports to <b>COG Public Safety Policy Committee</b> ; coordination as necessary with parallel RESF committees (RESF-2 through RESF-16)	Reports up to <b>TPB Technical Committee</b>
<b>TOPIC AREAS</b>	MOITS considerations in regional <b>long-range transportation planning</b> ; planning for non-emergency transportation operations	<b>Current interagency coordination</b> on transportation operations, incidents, & related information sharing/traveler information	Provide transportation sector input to the regional catastrophic <b>emergency planning process</b> and DHS-driven requirements	Shepherd the <b>federally-required transportation safety element</b> of the long-range transportation plan (i.e. traffic safety)