



MEMORANDUM

TO: Systems Performance, Operations and Technology Subcommittee (SPOTS)
FROM: Andrew Burke, TPB Transportation Engineer
SUBJECT: Overview of SPOTS Planning Tasks in FY 2022 UPWP
DATE: July 8, 2021

Below are the sections of the FY 2022 TPB Unified Planning Work Program (UPWP) that concern the Systems Performance, Operations, and Technology Subcommittee. They can be found on pages 41-43 of the UPWP.

3.2 CONGESTION MANAGEMENT PROCESS

OVERSIGHT

Systems Performance, Operations, and Technology Subcommittee (SPOTS)

MAJOR PRODUCTS

- 2022 Congestion Management Process Technical Report
- National Capital Region Congestion Report Dashboard
- Vehicle Probe Data Users Group reference materials
- Documentation for FAST Act performance and target reporting requirements

This task develops and maintains the regional Congestion Management Process (CMP), providing information on current congestion on the region's roadways through data analysis, as well as identifying potential multi-modal strategies to manage congestion.

This task includes:

- Compile information and undertake analysis for the development of major CMP components, including application of available or emerging "big data" sources.
- Develop and publish the biennial 2022 CMP Technical Report.
- Produce the National Capital Region Congestion Report, released as a quarterly website "dashboard".
- Provide CMP technical input to the Performance-Based Planning task.
- Continue development (begun in FY 2020) of jurisdictional, subregional, and/or corridor-based congestion profiles, using available data plus additionally procured data. Include related information such as Census and transit use.

- Produce special CMP analyses, such as following a major event, on an as-needed basis.
- Support the Vehicle Probe Data Users Group (VPDUG) in its role to foster technical and methodological coordination in the application of vehicle probe data by member agencies and jurisdictions.

3.3 SYSTEMS PERFORMANCE, OPERATIONS, AND TECHNOLOGY PLANNING

OVERSIGHT

Systems Performance, Operations, and Technology Subcommittee (SPOTS)

MAJOR PRODUCTS

- **Regional ITS architecture maintenance**
- **Regional surveys on traffic signal timing and power back-up systems**
- **Documentation for FAST Act performance and target reporting requirements**

This task addresses requirements for Regional Transportation Systems Management and Operations (RTSMO) and related technology.

This task includes:

- Address FAST Act requirements related to technology and RTSMO; address RTSMO-related aspects of connected and autonomous vehicle technology and shared mobility developments.
- Maintain the Regional Intelligent Transportation Systems (ITS) Architecture.
- Address Traffic Incident Management (TIM) as it relates to metropolitan transportation planning and RTSMO.
- Address planning for connected/autonomous vehicles (CAVs), advised by outcomes of the FY2020 TPB CAV forums and white paper.
- Address resiliency and reliability planning aspects of RTSMO.
- Conduct supporting activities as necessary on the above topics, potentially including in-depth studies, development of reports or white papers, or stakeholder workshops.
- Conduct a regional survey on traffic signal timing and power back-up systems.
- Support the regional Systems Performance, Operations, and Technology Subcommittee (SPOTS) and the Traffic Signals Subcommittee.

3.4 TRANSPORTATION EMERGENCY PREPAREDNESS PLANNING

OVERSIGHT

COG Transportation Emergency Preparedness Committee in coordination with the Systems Performance, Operations, and Technology Subcommittee

MAJOR PRODUCTS

- Documentation pursuant to DHS and UASI requirements

This task provides support and coordination for the transportation sector's role in overall regional emergency preparedness planning, in conjunction with the Metropolitan Washington Council of Governments (COG) Board of Directors and its public safety programs. This is a component of a much larger regional set of emergency preparedness activities funded primarily outside the UPWP by U.S. Department of Homeland Security (DHS) and COG local funding. The Regional Emergency Support Function #1 (R-ESF 1) Transportation Emergency Preparedness Committee, within the COG public safety committee structure, advises these efforts and coordinates with emergency management agencies, police, fire, and other emergency response committees.

This task includes:

- Undertake transportation emergency coordination and response planning through the emergency management and Homeland Security Urban Area Security Initiative (UASI) processes.
- Address Traffic Incident Management (TIM) as it relates to transportation emergency preparedness planning.
- Support the regional Transportation Emergency Preparedness Committee (R-ESF 1).