

DEVELOPMENT OF 2020 CONGESTION MANAGEMENT PROCESS (CMP) TECHNICAL REPORT

An Update

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Requirement for a CMP

- A Congestion Management Process (CMP) is a requirement in metropolitan transportation planning
 - It builds upon more than a decade of experience with planning for congestion management
 - Many generations of federal regulations for metropolitan planning have addressed CMP requirements
 - FAST Act retained these CMP requirements
 - Added an option for a Congestion Management Plan that TMAs could pursue – may be considered in the future
- The official CMP component is being wholly integrated into the overall long-range transportation plan (Visualize 2045) to address this requirement



The CMP should help the MPO to

- Identify congested locations;
- Determine the causes of congestion;
- Develop alternative strategies to mitigate congestion;
- Evaluate the potential of different strategies;
- Propose alternative strategies that best address the causes and impacts of congestion; and
- Track and evaluate the impact of previously implemented congestion management strategies.



The Series of CMP Technical Reports

- CMP Technical Reports were released in 2008, 2010, 2012, 2014, 2016, and 2018
- 2010 and 2014 Federal Certification of the TPB Process commended the CMP for its detailed documentation efforts in the CMP Technical Reports
- A draft of 2020 CMP Technical Report is currently under development
- Included are documentation of both CMP-specific analyses and concomitant efforts



Outline of the CMP Technical Report

Executive Summary

Chapter 1. Introduction

Chapter 2. State of Congestion

Chapter 3. Consideration and Implementation of Congestion Management Strategies

Chapter 4. Studies of Congestion Management Strategies

Chapter 5. How Results of The CMP Are Integrated Into The CLRP

Chapter 6. Conclusions

Appendices



Ch 2 State of Congestion

2.1 Regional Travel Trends

2.2 Congestion on Highways

2.3 Congestion on Transit Systems

2.4 Other Congestion Monitoring and Data Consolidation Activities

2.5 National Comparison of the Washington Region's Congestion

[2.5.1 TNC \(NEW!\)](#)

2.6 Performance and Forecasting Analysis of the 2016 Financially Constrained Long-Range Transportation Plan (CLRP)

[2.2.6.1 Regional Curbside Management \(NEW!\)](#)



Ch 3 Strategies (1/3)

3.1 Overview of Congestion Management Strategies

3.2 Demand Management Strategies

3.2.1 Commuter Connections Program

3.2.2 Local And Other Transportation Demand Management And
Traffic Management Activities

3.2.3 Transit Systems

3.2.4 Pedestrian And Bicycle Transportation

3.2.5 Car Sharing

3.2.6 Land Use Strategies In The Washington Region



Ch 3 Strategies (2/3)

3.3 Operational Management Strategies

3.3.1 High-occupancy Vehicle (HOV) Facilities

3.3.2 Variably Priced Lanes/Systems

3.3.3 Traffic Management

3.3.4 TIME Task Force (NEW!)

3.4 Integrative/Multi-Modal Strategies

3.4.1 Advanced Traveler Information Systems (ATIS)

3.4.2 Bus Priority Systems

3.4.3 Regional Its Architecture

3.4.4 Integrated Corridor Management (ICM)

3.4.5 Evaluating Significant Transportation Projects (Virginia)



Ch 3 Strategies (3/3)

3.4 Integrative/Multi-Modal Strategies (cntd.)

3.4.6 Mobile Devices And Social Media

3.4.7 Traffic Management Activities Associated With Defense Base Closure And Realignment Commission (BRAC) Actions

3.5 Additional System Capacity

3.5.1 Documentation Of Congestion Management For Additional System Capacity

3.5.2 Where Additional System Capacity Is Needed And How The Additional System Capacity Will Be Managed Efficiently

3.6 Project-Related Congestion Management



Ch 4 Studies

4.1 Review of Performance Measures

4.2 Review of Congestion Management Strategies

4.3 Examples of Strategies Studies

4.3.1 Analysis Of Transportation Emissions Reduction Measures
(Terms)

4.3.2 Scenario Planning



Ch 5 CMP Integration in Visualize 2045

- 5.1 Components of the CMP Are Integrated in Visualize 2045
- 5.2 Demand Management in Visualize 2045
- 5.3 Operational Management in Visualize 2045
- 5.4 Capacity Increases in Visualize 2045
- 5.5 Congestion Management Aspects of Special Studies and Initiatives



Appendices

APPENDIX A – 2019 PEAK HOUR TRAVEL TIME INDEX

APPENDIX B – 2019 PEAK HOUR PLANNING TIME INDEX

APPENDIX C – 2010 AND 2017-2019 TRAVEL TIMES ALONG MAJOR
FREEWAY COMMUTE CORRIDORS

APPENDIX D – 2014 PERFORMANCE OF HIGH-OCCUPANCY VEHICLE
FACILITIES ON FREEWAYS IN THE WASHINGTON REGION

APPENDIX E – SUMMARY OF TRANSPORTATION EMISSION REDUCTION
MEASURE (TERM) ANALYSIS REPORT FY 2015-2017

APPENDIX F – SAMPLE CMP DOCUMENTATION FORM

APPENDIX G – REVIEW OF CONGESTION MANAGEMENT STRATEGIES



Preliminary Timeline

- First draft of full report for internal reviews and presentation to the SPOTS meeting on April 2, 2019, by March 25, 2020.
- Final draft of full report for TPB Technical Committee review on May 1, 2020, by April 22, 2020.
- A full report being released by June 30, 2020.



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