

# **Briefing on Draft Congestion Management Process Elements for the 2007 CLRP**

Andrew J. Meese, AICP

Melanie Wellman

COG/TPB Staff

Travel Management Subcommittee

October 23, 2007

# Introduction

- Travel Management Subcommittee briefed last month on the Congestion Management Process (CMP)
  - SAFETEA-LU requirement for metropolitan transportation planning
  - Must be part of the CLRP
- Subcommittee recommended focus on process definition now, technical report later
- This month: update and draft materials

# Federal Regulation Overview

“The transportation planning process shall address congestion management...

- ...through a process that provides for safe and effective integrated management and operation of the multimodal transportation system...
- ...based on a cooperatively developed and implemented metropolitan-wide strategy...
- ...of new and existing transportation facilities...
- ...through the use of travel demand reduction and operational management strategies.”

*[\$450.320(a), Metropolitan Transportation Planning, Final Rule, Federal Register, February 14, 2007 – emphasis added.]*

# Federal Planning Rule

- Congestion management process requires a systematic approach
- Must be part of the regional transportation plan and include:
  - Methods to monitor and evaluate system performance
  - Objectives and performance measures
  - Data collection
  - Identification and evaluation of the anticipated performance and expected benefits of Congestion Management strategies, including:
    - Demand management
    - Traffic operational improvements
    - Public transportation improvements
    - ITS technologies
    - Where necessary, additional system capacity
  - Assessment of the effectiveness of previously implemented strategies
- SOV-capacity-increasing projects must be in conjunction with a CMP
- The metropolitan transportation plan must include consideration of the results of the CMP

# Draft CMP Components for the 2007 CLRP

- Structured as interlinked Web site pages
- Defines process, with illustrations of results
- Specifics reflect federal regulations
  - Requirements
  - Naming conventions

# Draft CMP Components for the 2007 CLRP - Outline

1. Top Web Page / Overview
2. Addressing the CMP in the Regional Planning Process
3. Need for a CMP
4. Major CMP Components
5. Major CMP Strategies
  1. Demand Management
  2. Operational Management
6. Considering the Results of the CMP

# Page 1 - Top Web Page / Overview

- What Is the CMP?
- What Are the Major Components of and Considerations for the CMP?

# Page 2 - Addressing the CMP in the Regional Planning Process

- Integrating CMP Components into the CLRP
- Interactions with Supporting Committees and Program Areas
  - TPB Technical Committee Review
  - Travel/Congestion Monitoring Program
  - Management, Operations, and Intelligent Transportation Systems (MOITS) Program
  - Commuter Connections Program
  - Travel Management Program
- Frequency, Timing, and Schedule

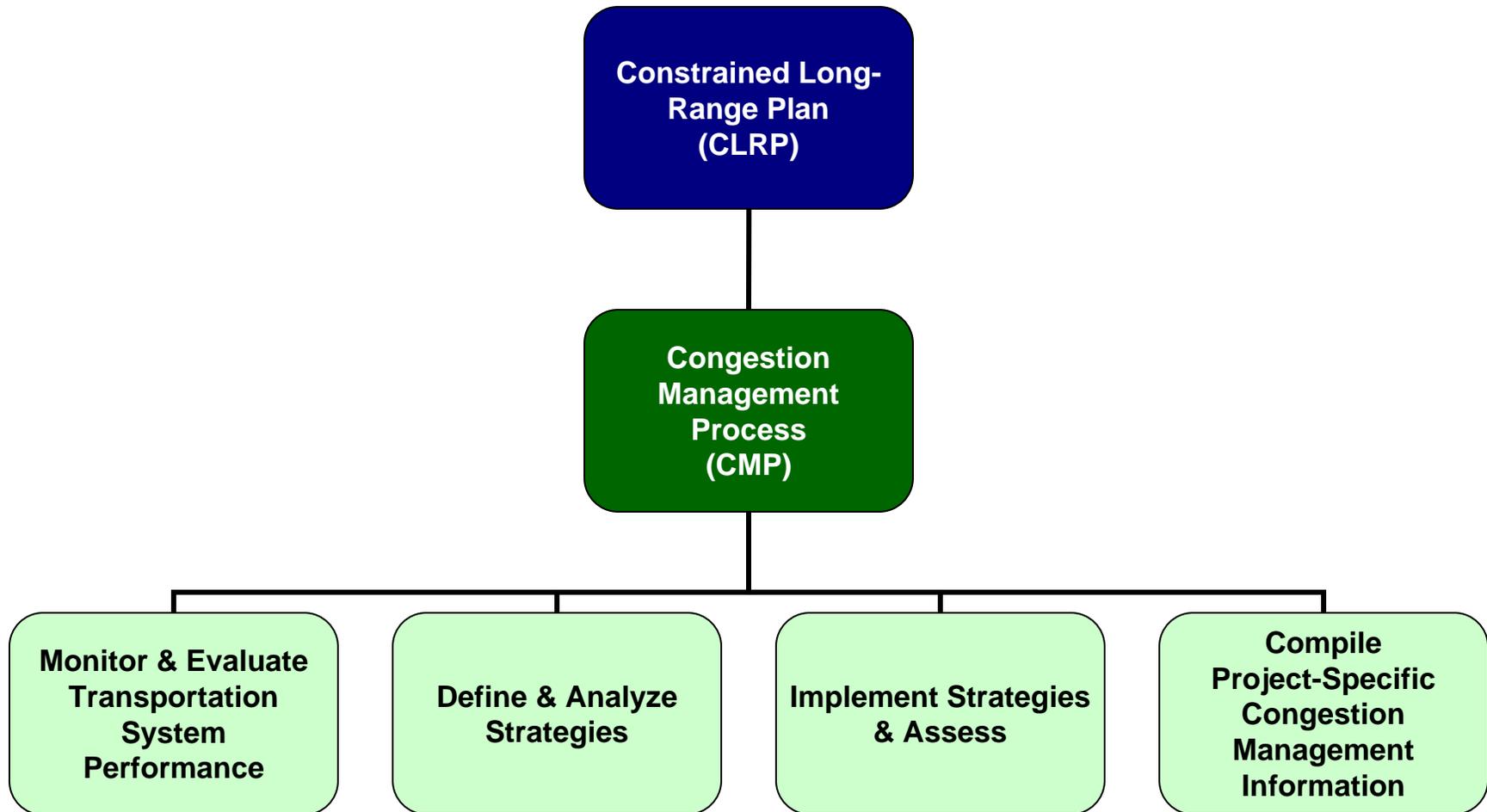
# Page 3 - Need for a CMP

- Congestion Management As a Goal of the TPB
- Federal Requirements

# Page 4 - Major CMP Components

- Monitoring and evaluating transportation system performance
- Defining and analyzing strategies
- Implementing and assessing strategies
- Compiling project-specific congestion management information

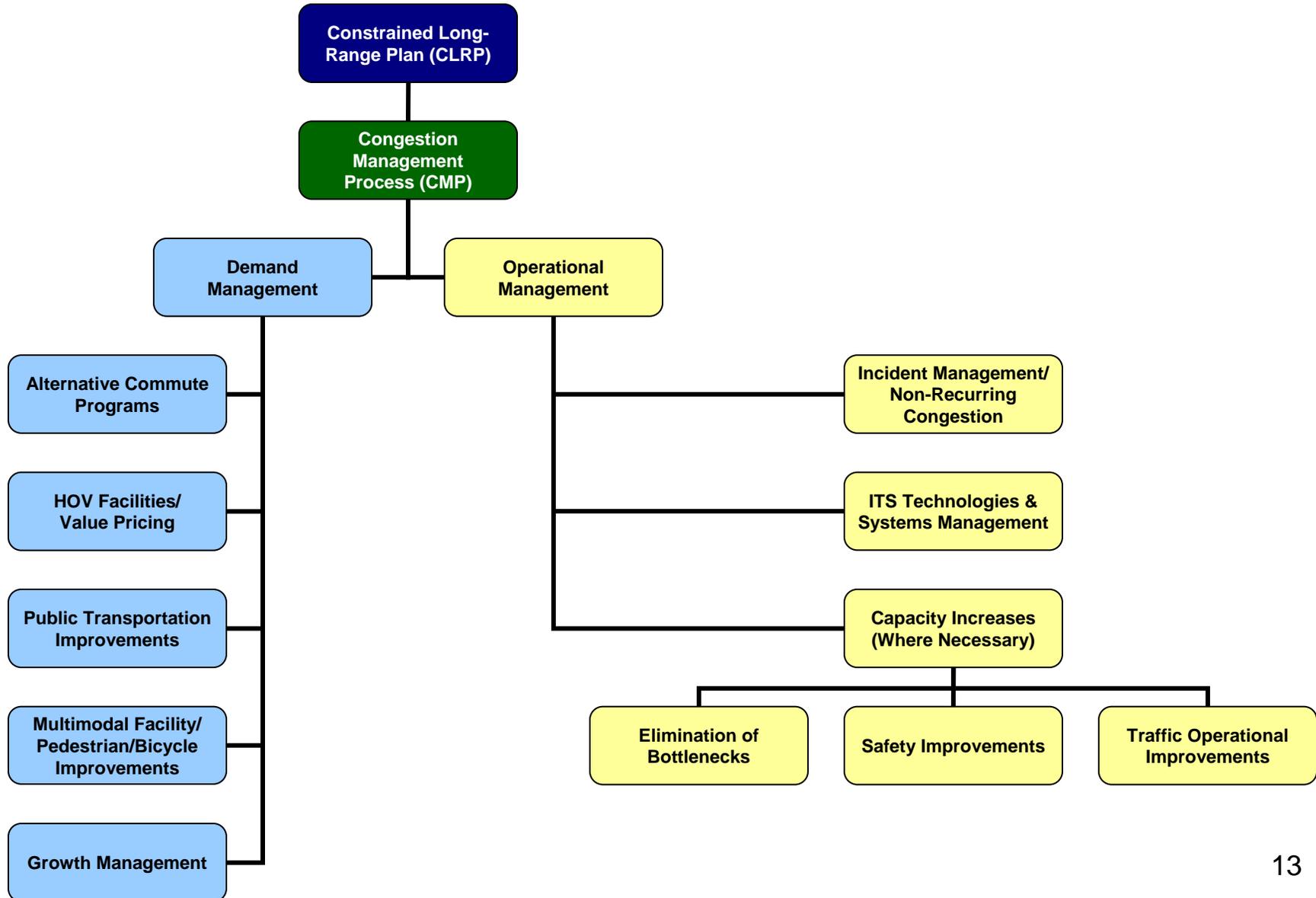
# CMP Components



# Page 5 - Major CMP Strategies

- Page 5A - Overview
- Page 5B - Demand Management Strategies
- Page 5C - Operational Management Strategies
  - Capacity Increases (Where Necessary)

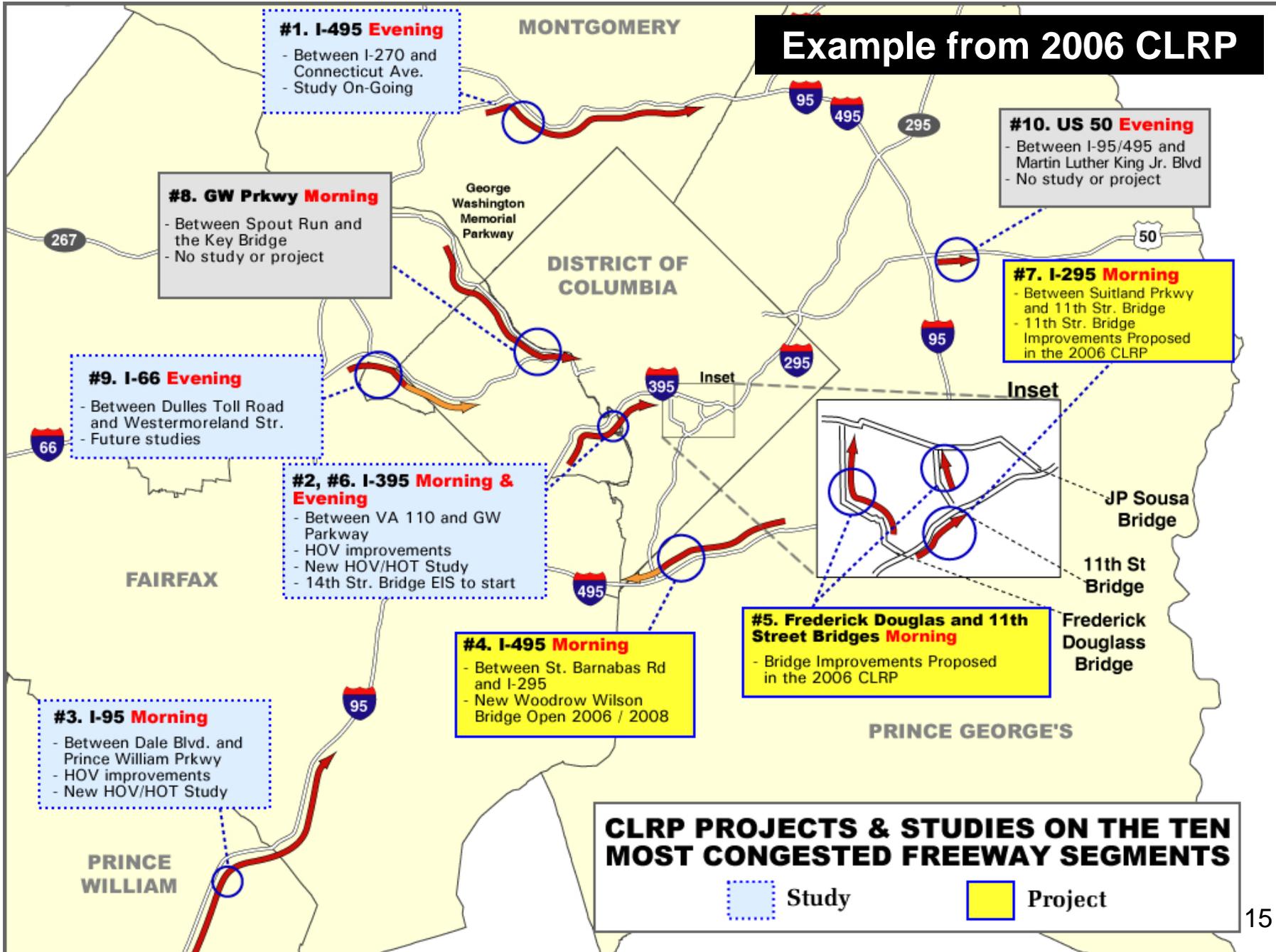
# Major CMP Strategies



# Page 6 - Considering the Results of the CMP

- Considering CMP Components
  - Considering Information on the Existence and Extent of Congestion
  - Considering CMP Strategies
  - Considering the Impacts of Implemented CMP Strategies
  - Considering CMP Components of Major Projects
- Future Outlook for Maintaining and Enhancing the CMP

# Example from 2006 CLRP



**#1. I-495 Evening**  
 - Between I-270 and Connecticut Ave.  
 - Study On-Going

**#8. GW Prkwy Morning**  
 - Between Spout Run and the Key Bridge  
 - No study or project

**#9. I-66 Evening**  
 - Between Dulles Toll Road and Westermoreland Str.  
 - Future studies

**#2, #6. I-395 Morning & Evening**  
 - Between VA 110 and GW Parkway  
 - HOV improvements  
 - New HOV/HOT Study  
 - 14th Str. Bridge EIS to start

**#4. I-495 Morning**  
 - Between St. Barnabas Rd and I-295  
 - New Woodrow Wilson Bridge Open 2006 / 2008

**#3. I-95 Morning**  
 - Between Dale Blvd. and Prince William Prkwy  
 - HOV improvements  
 - New HOV/HOT Study

**#10. US 50 Evening**  
 - Between I-95/495 and Martin Luther King Jr. Blvd  
 - No study or project

**#7. I-295 Morning**  
 - Between Suitland Prkwy and 11th Str. Bridge  
 - 11th Str. Bridge Improvements Proposed in the 2006 CLRP

**#5. Frederick Douglas and 11th Street Bridges Morning**  
 - Bridge Improvements Proposed in the 2006 CLRP

**CLRP PROJECTS & STUDIES ON THE TEN MOST CONGESTED FREEWAY SEGMENTS**

# CMP Interactions

<b>Program or Committee</b>	<b>CMP- Related Activities</b>
TPB Technical Committee	Long-range plan; interaction with necessary subcommittees – <b>CMP lead</b>
Travel Monitoring Program (in conjunction with the Travel Forecasting Subcommittee)	Travel monitoring and forecasting of future recurring congestion
Management, Operations, and Intelligent Transportation Systems (MOITS) Program	Non-recurring congestion, traffic management, ITS technologies
Commuter Connections Program	Implementation and assessment of regional demand management alternatives
Travel Management Program	Strategy identification and analysis

# Schedule

May 4, 2007	CMP Report outline endorsed by TPB Technical Committee
July 1	New FY2008 resources began (separate UPWP task)
Summer/Fall 2007	Staff CMP development & discussions with subcommittees
October 5	Tech Committee review of process framework
October 23	First draft of CLRP CMP components available for review
October 26	Special Tech Committee meeting on CLRP components
November	Final draft CLRP CMP components
December	Approval of CLRP including CMP components
Winter/Spring 2008	Completion of CMP Technical Report; follow-up/enhancement activities

# Outlook

- Process described for 2007 CLRP
- Get committee input and consensus on the new process
- Coordinate with overall CLRP development and schedule