FHWA UPDATE

2012 MWBPP Meeting, Council Bluffs, Iowa October 18, 2012

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Presentation Outline

- MAP-21 For Bridges
- On Going FHWA Bridge Preservation Activities



- SAFETEA-LU expired on 9/30/09
 - 10 extensions (final one from 7/1/12 7/6/12)
- MAP-21 Signed by President July 6, 2012
- 2 year Bill (FY2013 & FY2014)
- Many provisions take affect on October 1st, 2012
- Avg. annual funding at FY12 levels (plus minor inflation)



• Two year bill

- \$37.5 billion in 2013
- \$37.8 billion in 2014
- Four main programs (there are more)
 - National Highway Performance Program
 - Surface Transportation Program
 - Highway Safety Improvement Program
 - Congestion Mitigation and Air Quality Improvement Program



\$37.7 Billion/Year in Formula Funding

Surface Transportation Program (\$10.0)

HSIP (\$2.2) Railway-Highway Crossing (\$0.2) CMAQ (\$2.2)

> Transportation Alternatives (\$0.8) Metro Planning (\$0.3)

National Highway Performance Program (\$21.8)

Note: Amounts in \$Billion



National Highway Performance Program (NHPP)

- Funds an enhanced National Highway System, combining functions of the existing NHS, IM and Bridge Programs
- Enhanced NHS includes existing NHS, all principal arterials, STRAHNET, and intermodal connectors
- Requires an asset management plan
- States set targets for conditions and performance
- Min. standards for Interstate & bridge conditions in a State
 - DOT to set minimum standard for Interstate pavement condition
 - Law sets standard for NHS bridges -- no more than 10% of deck area may be structurally deficient

MAP-21 FOR BRIDGES and Tunnels

- National Highway Performance Program (SEC 1106)
 - Eligible facility = any facility on the NHS
 - Eligible project = supports the national performance goals and meets at least one listed purpose
 - Performance targets for the NHS set by state as part of an asset management plan
 - Risk and performance based
 - In line with national goals, specified in law (SEC 1203)



National Highway Performance Program

- Timing of actions
 - 18 months after October 1st USDOT Secretary to issue regulations defining the process for developing an asset management plan
 - 18 month transition period beyond publication of final rule



Surface Transportation Program

- Includes bridges and tunnels on public roads of all functional classifications
- Eligible construction, replacement, rehabilitation, preservation, protection, inspection, evaluation, inspector training
- 15% of 2009 Highway Bridge Program apportionment set aside for bridges not on Federal-aid highways (waiver still allowed)



- National Bridge and Tunnel Inventory and Inspection Standards Program
 - Congress determined that it is in the vital interest of the U.S. to use <u>performance based bridge</u> <u>management systems</u>
 - Need to establish tunnel inspection standards and inventory
 - Need to revisit Sufficiency Rating consider emergency and freight mobility



- National Bridge and Tunnel Inventory and Inspection Standards Program (Continued)
 - Classify bridges according to serviceability, safety, and essentiality for public use, including the potential impacts to emergency evacuation routes and to regional and national freight and passenger mobility if the serviceability of the bridge is restricted or diminished;
 - Based on that classification, assign each a risk-based priority for systematic preventative maintenance, replacement, or rehabilitation; and



- National Bridge and Tunnel Inventory and Inspection Standards Program (Continued)
 - Determine the cost of replacing each structurally deficient bridge
 - Element level data:
 - Issue guidance and begin collecting w/in 2 years of enactment
 - Study cost-effectiveness, benefits, feasibility of collecting for non-NHS bridges



- National Bridge and Tunnel Inventory and Inspection Standards Program (Continued)
 - Update the National Bridge Inspection Standards within 3 years
 - National inspector certification process
 - Establish procedures for reporting critical findings
 - Risk-based approach to setting inspection intervals
 - Annual compliance process and penalty (both bridges and tunnels)
 - Develop training program for tunnel inspectors



- National Goals and Performance Management Measures
 - 7 national goal areas defined in law
 - Infrastructure condition maintain a state of good repair
 - 18 months after enactment rulemaking to "establish performance measures and standards."
 - 12 months after the rule, states set their targets



- National Goals and Performance Management Measures (Continued)
 - For bridges, limited to standards and measures for bridge conditions on the NHS
- 4 years after enactment and biennially thereafter, states report on conditions and progress
- More information on MAP-21 can be found at <u>http://www.fhwa.dot.gov/map21/</u>



BRIDGE PRESERVATION TOOL BOX

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Asset Management Bridge Technolog	17				
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Bridge Preservation

FHWA > Bridge : Asset Management > Bridge Preservation Toolbox



Legislations & Policies

- Federal, State, and Local Laws and Bridge Preservation Related Policies;
- Definitions/Terminology;
- · Guides; etc.,
- Agencies' Websites

Research & Development

- · Research Roadmap;
- Libraries;
- Product Evaluations;
- Standards & Specifications;
- Technical Presentations;
- Training; etc.

Bridge Management

- Condition Assessments;
- Performance Measures;
- Strategies;
- · Cost Data;
- Deterioration Trends;
- Life Cycle Cost Analysis; etc.

Bridge Preservation Treatments

- Coatings;
- · Sealers;
- · Overlays;
- Drainage Systems;
- Scour Remediation;
- · Cathodic Protections & Preventions;
- · Electrochemical Chloride Extractions; etc.

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Events

 Southeast Bridge Preservation Partnership Annual Meeting Atlanta, Georgia April 23 - 25, 2012

View all Upcoming Events

More Information

- Asset Management
- Bridge Technology

Contact

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http://www.fhwa.dot.gov/bridge/preservation/

Other On-going FHWA Initiatives

- Update NHI bridge maintenance course (4 ½ days)
- Develop a new NHI bridge preservation course (1-day)
- Develop a new NHI performance based management of highway bridges course (1-day)
- Conduct Bridge Management and Preservation Peer Exchanges
- Develop a bridge preservation web-based training for contractors and construction personnel (sealing/water proofing; coatings; safety practices)



Thank you!

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