

FHWA Update

AND AND STATIS

Dennis O'Shea, PE NEBPP FHWA Liaison Northeast Bridge Preservation Partnership 2015 Meeting Manchester, NH

September 9-11, 2015



Overview

- Transportation Performance Management
- National Tunnel Inspection Program
- National Bridge Inspection Program
- Bridge Management and Preservation
- SHRP2

Transportation Performance Management (TPM)

- MAP-21 started the transition to a performance based highway program
- MAP-21 instituted performance and accountability requirements to prioritize NHPP projects
- TPM is a strategic approach that uses system information to make investment and policy decisions to achieve national performance goals



TPM and Rulemakings

- FHWA is in the process of several rulemakings that will affect bridge and tunnel owners in regard to TPM
 - Pavement and Bridge Condition Performance Measures
 - Asset Management Plan

Pavement and Bridge Conditions Performance Measures

- NPRM was issued Jan. 5, 2015 and comments were accepted through April 6, 2015
 - Proposed measures for NHS bridges in good and poor condition
 - Proposed reporting on targets every two years
 - Proposed minimum level of condition for NHS bridges (10% structurally deficient)
- FHWA is currently reviewing comments and developing the Final Rule



Asset Management Plan

- NPRM was issued Feb. 20, 2015 and comments were accepted through May 29, 2015
 - Proposed to establish asset management plan to improve and preserve the condition of NHS assets
 - Proposed minimum content of an asset management plan
 - Proposed minimum standards for bridge management systems
- FHWA is currently reviewing comments and developing the Final Rule



National Tunnel Inspection Program

- National Tunnel Inspection Standards (NTIS)
- National Tunnel Inventory (NTI)
- Specifications for the National Tunnel Inventory
- Tunnel Operations, Maintenance, Inspection and Evaluation (TOMIE) Manual
- Tunnel Safety Inspection Training (NHI)



National Tunnel Inspection Standards

- Ensure uniformity
- Establish qualifications of inspection team.
- Establish national certification for inspectors.
- Specify, in detail, the inspection method.
- Determine maximum inspection intervals.
- Establish rules to maintain and make available:
 - Written reports and notations of any action taken.
 - Current inventory data reflecting recent inspections.



National Tunnel Inventory

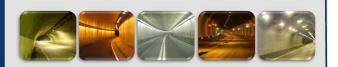
- National Tunnel Inventory
 - Based on Specifications for the National Tunnel Inventory (SNTI)
 - 2 Part Implementation
 - Part 1 Preliminary NTI
 - Part 2 NTI



National Tunnel Inventory

• SNTI

- Introduction
- Inventory Items
- Elements
- Index of Inventory Items and Elements
- Tunnel Coding Example
- References



Specifications for the National Tunnel Inventory







U.S. Department of Transportation Federal Highway Administration

TOMIE Manual

Tunnel Operations Maintenance Inspection Evaluation



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d) Immersed Tube (in dry dock



e) Drill and Blast (Rockbolts)



f) Sequential excavation method in relatively weak rock (center, 2 side [L & R] headings & bench)



Tunnel Safety Inspection Course

- NHI 130110
- Comprehensive Training Course
- 5-days
- Pre-requisites Same as 130055
 WBT 130101/A
 - ILT 130054



Publication No. FHWA-NHI-15-024 March 2015

FHWA-NHI Course No. 130110

Tunnel Safety Inspection









Tunnel Safety Inspection Course

- First 8 Sessions
- Providing Funding for Attendees
 - 2 State DOT
 - 1 Division Office (DBE)
 - HQ, RC and FLH
- Open to Requests in 2016



Tunnel Safety Inspection Course

- Sacramento, CA August 24 28, 2015
- Lakewood, CO September 14 18, 2015
- Vancouver, WA September 28 October 2, 2015
- Nashville, TN October 19 23, 2015
- Matteson, IL November 2 6, 2015
- Boston, MA November 16 20, 2015
- Atlanta, GA November 30 December 4, 2015
- Arlington, VA December 14 18, 2015



Tunnel Inspection Refresher

- NHI Course Being Developed
 - 4 Hours of WBT
 - 2.5 Days of ILT
 - 19 Hours of FHWA Approved Training
- Availability in 2017



Implementation Timeframe

- June 26, 2015 OMB Clearance
- July 14, 2015 NTIS Publication
 Publication of TOMIE, SNTI, NHI Course, etc.
- August 13, 2015 Effective Date
- August December 2015 FHWA Sponsored Training Sessions
- December 11, 2015 Preliminary NTI Submittals Due



Implementation Timeframe

- August 13, 2017 Qualified Program Manager
- August 13, 2017 Initial Inspection Completed
 - Requires a Qualified Team Leader
 - Tunnel-Specific Inspection Procedures
- March/April , 2018 NTI Submittals
- April 1, 2018 NTIP Oversight Begins



Website

http://www.fhwa.dot.gov/bridge/ inspection/tunnel/

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National Bridge Inspection Program

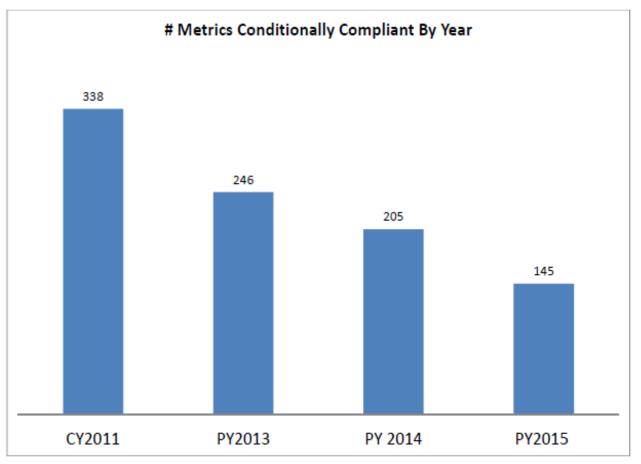
- National Bridge Inspection Standards (NBIS) NPRM
 - Scheduled (tentatively) for publication in early 2016
- Specifications for the National Bridge Inventory (Coding Guide)
 - Being updated to coincide wit NBIS NPRM
- Risk-Based, Data-Driven Oversight (23 metrics)



23 Metrics

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Preliminary Metric Results of PY 2015 NBIS Program Review

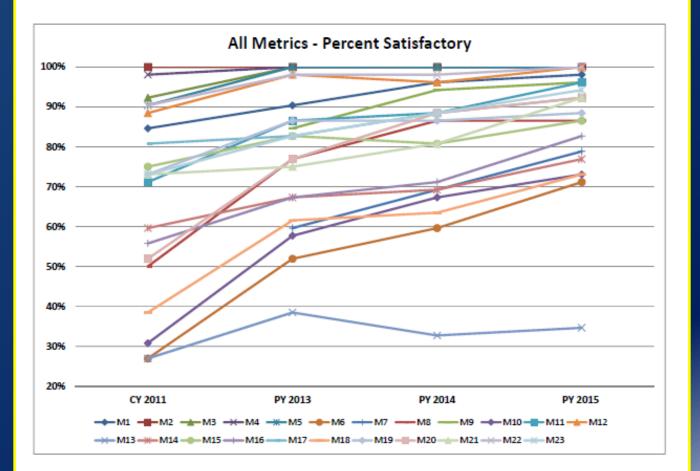




23 Metrics

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Preliminary Metric Results of PY 2015 NBIS Program Review

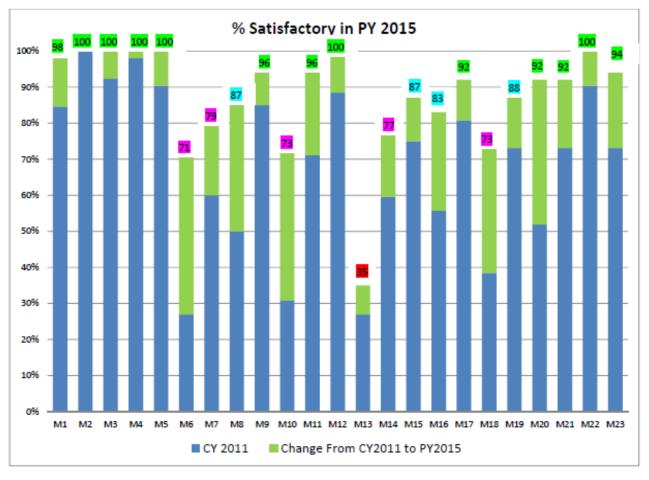




23 Metrics

NAME OF STREET

Preliminary Metric Results of PY 2015 NBIS Program Review





Bridge Management and Preservation

- Developing several NHI training courses
 <u>— Bridge Preservation WBT</u> now available
 - 130106 A, B, and C
 - Bridge Management WBT now available
 - 130109 A & B
 - Bridge Maintenance Training and Reference Manual – being updated for 2016

<u>www.nhi.fhwa.dot.gov</u>



SHRP2

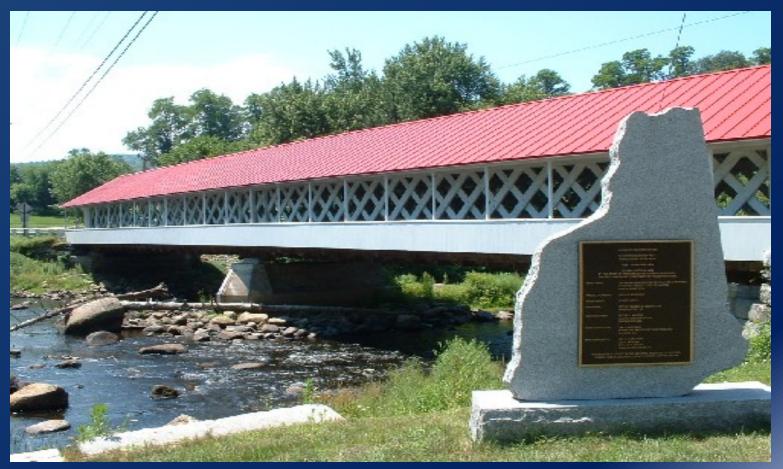
• Service Life Design for Bridges (R19A)

- Goal: Provide longer service life by design through durable and state-of-the-art materials, construction techniques, and utilization of emerging technologies that are ideally suited for the bridge
- Comprehensive reference manual
- Lead adopters PA, OR, HI, IA, VA
- <u>www.fhwa.dot.gov/goshrp2/solutions/renewal/R19</u>



Questions

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Ashuelot Covered Bridge