FHWA Tunnel Program Update

2013 AASHTO T-20 Meeting
Portland Oregon
June 18, 2013

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Federal Highway Administration
National Tunnel Inspection Standards (NTIS)

Specifications for the National Tunnel Inventory (Coding Guide)


Tunnel Inspector Training
National Tunnel Inspection Standards (NTIS)

- November 18, 2008: Advanced Notice of Proposed Rule-Making (ANPRM)
National Tunnel Inspection Standards (NTIS)

- **July 6, 2012:**
  - MAP-21
    - Expanded authority to all tunnels on public roads
    - Certification of Tunnel Inspectors
    - When critical findings and follow up actions are to be reported to FHWA
    - Training

- **Supplemental Notice of Proposed Rule-Making (SNPRM)**
National Tunnel Inspection Standards (NTIS)

- Supplemental Notice of Proposed Rule-Making (SNPRM)
  - Departmental Review Complete
  - Under review at Office of Management and Budget
  - Likely in the Federal Register this summer
Specifications for the National Tunnel Inventory (Coding Guide)

• Greatly appreciative for T-20 comments. They have resulted in improvements to the document

• Contents
  – Introduction
  – Inventory Items
  – Elements
  – Appendix
Inventory Items

- **Identification**
  - Name, Tunnel Number

- **Age and Service**
  - Year Built, Service in Tunnel

- **Classification**
  - Owner, Functional Classification

- **Geometric Data**
  - Length, Roadway Width

- **Inspection**
  - Date, Inspection interval

- **Load Rating and Posting**
  - Rating factors, Posting Status

- **Navigation**
  - Under Navigable Waterway, Clearance

- **Structure Type and Material**
  - Tunnel Shapes, Complex
Elements

- 1000 Series – Structural and Civil
- Structural Elements
  - Liners, Girders, Slabs, Ceiling Panels, etc.
- Civil Elements
  - Traffic Barriers, Wearing Surfaces
- 2000 Series – Functional Systems and Protective Coatings
- Mechanical, Electrical, Lighting, Fire/Life Safety, Signs
- Protective Coatings
Appendix (Thanks to Tim Rogers!)

- **Tunnel Coding Example**
  - Inventory Items
  - Elements
    - Identification
    - Total Quantity Calculation Examples
    - Condition State Quantity Examples

- Closest bridge equivalent would be the Bridge Inspector’s Reference Manual (BIRM)
- Prepared pre-MAP-21
- Currently being revised for the latest version of the NTIS (SNPRM)
- Will be available for review and comment when the SNPRM is published in the Federal Register
Tunnel Inspector Training

- Being developed by the National Highway Institute (NHI)
- Will be based on the application of:
  - NTIS
  - Specifications of the National Tunnel Inventory
  - TOMIE Manual
- Expected to be available in 15 to 18 months
Summary

- **SNPRM**: Out this summer
- **NTIS Final Rule**: 18 months?
- **Coding Guide**: 3 months
- **TOMIE Manual**: Available with SNRPM
- **Training**: 15 to 18 months