TTP Bridge Update
BIA Providers Conference

Anchorage, AK
November 28, 2018

Russell Garcia, PE
TTP Bridge Program Manager
FHWA/Office of Tribal Transportation
• TTP Bridge Components
• TTP Bridge Program
• TTP Bridge Inspection Program
• Tribal Bridge Inspection (MAP-21)
• NBI Data Submittal – BIA & Tribal
• Tribal Bridge Inspection Process
• NBIS Compliance – 23 Metrics
TTP Bridge Components

- TTP Bridge Program
  - Funding Applications – 23 CFR 661
- TTP Bridge Inspection Program
  - 23 CFR 650 Subpart C
  - Tribal Bridge Inspection (initial/routine)
  - NBI Data Submittal Update – FHWA NBI
  - NBIS Compliance – Bridge Posting
Criteria for bridge eligibility (23 CFR § 661.17):

• Bridge eligibility requires the following: i. Have an opening of 20 feet or more. ii. Be classified as a tribal transportation facility. iii. Be structurally deficient or functionally obsolete. iv. Be recorded in the National Bridge Inventory (NBI) maintained by the FHWA.

• Bridges that were constructed, rehabilitated, or replaced in the last 10 years, are only eligible for seismic retrofit or installation of scour countermeasures.
Eligible activities for TTP Bridge Program funds (23 CFR § 661.15):

TTP Bridge Program funds can be used by Tribes for the following activities:

Planning, design, engineering, preconstruction, construction, and inspection of a project to replace, rehabilitate, seismically retrofit, paint, apply calcium magnesium acetate, sodium acetate/formate, or other environmentally acceptable, minimally corrosive anti-icing and deicing composition.
Procedures for submitting an application package from FHWA Agreement Tribe:

Any time during the year a Tribe may prepare and submit to their FHWA Tribal Coordinator (TC) an application package to request funding for bridge preliminary engineering (PE) or bridge construction (CN). The TC will assist the Tribe in preparing the application package. Then, the application package is submitted directly to FHWA/OTT Bridge Program Manager (PM) for review of the application.
TTP Bridge Program

*Procedures for submitting an application package from BIA Tribe:*

Any time during the year a Tribe may prepare and submit to their BIA Regional Office an application package to request funding for PE or CN. **The BIA Region will assist the Tribe in preparing the application package, review the Tribe’s submittal and resolve any issues with the Tribe. Then, the application package is submitted to BIADOT for review and submitted to FHWA/OTT.**
TTP Bridge Program

- Funding under SAFETEA-LU: $14 million/year (FY05-FY12)
- Funding under MAP-21: $9 million/year (FY13-FY15)
- Funding under FAST Act: $13.95 million (FY16)
  $14.25 million (FY17)
  $14.55 million (FY18)
TTP Bridge Program

**FY18:**
- Funds made available = $13.3 million
- Received 59 bridge applications for about $34 million total funding request
- Funded 35 bridge projects for $13.3 million

**FY19:**
- Funds made available to date = $2.4 million
- Under the 68-day CR
Funded Projects under SAFETEA-LU (FY05-FY12):
228 bridge projects for about $140 million

Funded Projects under MAP-21 (FY13-FY15):
66 bridge projects for about $26 million

Funded Projects under FAST Act (FY16-FY18):
80 bridge projects for about $37 million

374 funded projects for about $203 million
<table>
<thead>
<tr>
<th>NO.</th>
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<th>Reservation</th>
<th>Project Name</th>
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</table>

**Total Funds Allocated:** $13,338,393.18
Tribal Bridge Inspection (MAP-21)

- Calls for a National Inventory of bridges and tunnels on public roads including tribally and Federally owned bridges.
- Calls for bridge and tunnel inspection standards to be carried out by State, Federal and tribal governments.
Tribal Bridge Inspection

- 332 sections in RIFDS ownership coded as 2 (Tribal)
- 250 sections verified to date
- 157 sections were verified either not a bridge, not a tribal bridge, proposed bridge, or pedestrian bridge
FY18 NBI Data Submittal (BIA & Tribal)

- BIA NBI Inspection Data Submittal – 1,009 bridge records
  - 986 bridge records
  - 23 bridge records from the Oglala Tribe
- Tribal NBI Inspection Data Submittal – 69 bridge records
  - 12 bridge records from Port Graham
  - 12 bridge records from Hydaburg
  - 26 bridge records from Eastern Band of Cherokee
  - 1 bridge record from Fort Yukon
  - 3 bridge records from Klawock
  - 12 bridge records from PBPT (BIA Tribe)
  - 1 bridge record from Shakopee (BIA Tribe)
  - 1 bridge record from Crooked Creek (BIA Tribe)
  - 1 bridge record from Elim (BIA Tribe)
FY19 NBI Data Submittal (Tribal)

- FY18 Tribal NBI Data – 69 bridge records
- FY19 Additional Tribal NBI Data – 73 bridge records from BIADOT inspection ID/IQ contract
- Total of 142 Tribal bridges to be recorded in the NBI
- EFL Bridge – 29 FHWA Tribal bridges to be inspected in Jan 2019
  - 26 EBCI Tribal bridges (routine)
  - 2 Mohegan Tribal bridges (initial)
  - 1 Citizen Potawatomi Tribal bridge (initial)
- Initial/Routine Inspection, load rating, and scour analysis
• Tribally Owned Bridges. Procedures for FHWA Agreement Tribes requesting initial inspection of tribally owned bridges for inclusion in the FHWA NBI:

1. The Tribe verifies if the tribal bridge is a public bridge, 20 ft. or more in length.
2. Tribe coordinates with the TC to fill out the tribal bridge inspection request form.
3. The TC submits the inspection request form to the FHWA TTP Bridge Program Manager (PM).
4. PM submits the request form to EFL Bridge for inspection.
5. Once inspected by EFL Bridge, a copy of the inspection report and the NBI data file (432 text file) is provided to the FHWA TTP Bridge PM and to the EFL Bridge Management Team for 2\textsuperscript{nd} level review.

6. Once approved, the NBI data file is submitted to FHWA HQ Office of Bridges and Structures for recordation in the FHWA NBI.
Tribal Bridge Inspection Process

• **Tribally Owned Bridges.** Procedures for BIA Tribes requesting inspection of tribally owned bridges for inclusion in the FHWA NBI:

  1. The Tribe verifies if the tribal bridge is a public bridge, 20 ft. or more in length.
  2. Tribe coordinates with the BIA Region to fill out the tribal bridge inspection request form.
  3. BIA Region submits the request form to the BIA TTP Bridge PM for inspection by the consultant.
  4. PM submits the request to the BIADOT’s consultant or in-house BIA Regional Inspection Team.
Continuation:

5. Once inspected, BIADOT sends a copy of the NBI data file to the EFL Bridge Management Team for 2nd level review.
6. Once approved, the NBI data file is submitted to FHWA HQ Office of Bridges and Structures for recordation in the FHWA NBI.
Tribe Bridge Inspection Form

TRIBAL BRIDGE INSPECTION FORM

TRIBE INFORMATION
TRIBE NAME: Eastern Band of Cherokee Indians

BRIDGE LOCATION
CITY: Cherokee
STATE: NC
LATITUDE: 35.4852000
LONGITUDE: 83.1891200

BRIDGE INFORMATION
OWNER: TBD
ROUTE OWNER (IF DIFFERENT): TBD
BRIDGE ID NUMBER (IF KNOWN): TBD
BRIDGE NAME: Copperhead Rd
ROUTE NUMBER: 4317
SECTION NUMBER: 24
BRIDGE/STRUCTURE LENGTH: 32 FT 0 IN
YEAR BUILT: Unknown

BRIDGE INSPECTION INFORMATION
LAST INSPECTION DATE: 01/27/2018
INSPECTED BY: Vaught & Mellon CE
REPAIRS MADE SINCE INSPECTION?: YES [ ] NO [x]
REPAIR DATE:

COMMENTS:

INFORMATION APPROVED BY: [Signature] DATE: [Signature]

[Signature]
[Signature]
NBIS Compliance – 23 Metrics

NBIS Oversight Program

Metrics for the Oversight of the National Bridge Inspection Program

May 2017
NBIS Compliance – 23 Metrics

National Bridge Inspection Program Metrics

Introduction .................................................................................................................................................. 3
NBIP Metrics Glossary ............................................................................................................................. 4
Metric 91: Bridge inspection organization ............................................................................................ 5
Metric 92: Qualifications of personnel – Program Manager................................................................. 8
Metric 93: Qualifications of personnel – Team Leader(s) ................................................................. 10
Metric 94: Qualifications of personnel – Lead Rating Engineer ..................................................... 13
Metric 95: Qualifications of personnel – UWH Bridge Inspection Driver ........................................ 15
Metric 96: Inspection frequency – Routine – Lower risk bridges ...................................................... 17
Metric 97: Inspection frequency – Routine – Higher risk bridges .................................................... 22
Metric 98: Inspection frequency – Underwater – Lower risk bridges ............................................. 24
Metric 99: Inspection frequency – Underwater – Higher risk bridges ............................................. 26
Metric 100: Inspection frequency – Fracture Critical Member......................................................... 28
Metric 101: Inspection frequency – Fracture criteria ...................................................................... 30
Metric 102: Inspection procedures – Quality Inspections ............................................................... 32
Metric 103: Inspection procedures – Load Rating ............................................................................. 38
Metric 104: Inspection procedures – Post or Restricted ................................................................. 43
Metric 105: Inspection procedures – Bridge Files ......................................................................... 46
Metric 106: Inspection procedures – Fracture Critical Member.................................................... 49
Metric 107: Inspection procedures – Underwater ........................................................................... 52
Metric 108: Inspection procedures – Scour ....................................................................................... 55
Metric 109: Inspection procedures – Complex Bridges ................................................................. 58
Metric 110: Inspection procedures – QC/QA ................................................................................. 61
Metric 111: Inspection procedures – Critical Fixage ...................................................................... 64
Metric 112: Inventory – Prepare and Maintain .............................................................................. 67
Metric 113: Inventory – Timely Updating of Data ......................................................................... 71

NBIP Metrics Page 2 of 72

ToC
Metric #1: Bridge inspection organization

NBIS Reference: 23 CFR 650.307 – Bridge inspection organization

Criteria

• An organization is in place to inspect, or cause to inspect, all highway bridges on public roads.
• Organizational roles and responsibilities are clearly defined and documented for each of the following aspects of the NBIS: policies and procedures, QC/QA, preparation and maintenance of a bridge inventory, bridge inspections, reports, and load ratings.
• Functions delegated to other agencies are clearly defined and the necessary authority is established to take needed action to ensure NBIS compliance.
• A program manager (PM) is assigned the responsibility for the NBIS.
Metric #6: Inspection frequency – Routine – Lower risk bridges

NBIS Reference: 23 CFR 650.311 (a) – Routine inspections

Criteria

- Routine inspections are performed at regular intervals not to exceed (NTE) 24 months, or NTE 48 months when adhering to FHWA approved criteria.
Metric #14: Inspection procedures – Post or Restrict

**NBIS Reference:** 23 CFR 650.313 (c) Inspection procedures – Post or restrict bridges

**Criteria**
- Bridges are posted or restricted in accordance with the AASHTO Manual for Bridge Evaluation (MBE) or in accordance with State law, when the maximum unrestricted legal loads or State routine permit loads exceed that allowed under the operating rating or equivalent rating factor.
- Posting deficiencies must be resolved within 90 days and provide pictures of bridge posting.
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<th>Facility Carried</th>
<th>Highway District</th>
<th>County Code</th>
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NBIS Compliance – Bridge Posting

Bridge Posting: Hydaburg E09211T0461-060 East End
NBIS Compliance – Bridge Posting

Bridge Posting: Hydaburg E09211T0461-060 West End
QUESTIONS???