

ACEC Meeting

Andrew Fitzgerald, PE

Presenting

Online

April 30th , 2021

Outline

- BIAS Changes
- Metric 23 Overview
- IPs/PCA update
- LPA Bridge Inspection Contracts
- Compliance Month
- Other Discussions

BIAS Changes/ Update- Sharon

- Critical Findings
- Consultant Page
- Delinquent Inspections Process
- LPA/MOA Agreements

Metric 23 Overview

- Overall good- needs improvements
- LPA related: 6,7,11, and 21
- Substantial Compliance- 6,7,11
- Non-compliance- 21

06 - Inspection Frequency - Routine - Lower Risk Bridges	SC	Int	SC
11 - Inspection Frequency - Frequency Criteria	SC	Int	SC
21 - Inspection Procedures - Critical Findings	SC	Int	NC

State Name:	Metric Number	Prior Year	Assess. Level	Dec 31 Compl.	Mar 31 Compl.
Indiana					
	01 - Bridge Inspection Organization	C	Min	C	
	02 - Qualifications of Personnel - Program Manager	C	Min	C	
	03 - Qualifications of Personnel - Team Leader(s)	C	Min	C	
	04 - Qualifications of Personnel - Load Rating Engineer	C	Min	C	
	05 - Qualifications of Personnel - UW Bridge Inspection Di	C	Min	C	
	06 - Inspection Frequency - Routine - Lower Risk Bridges	SC	Int	SC	
	07 - Inspection Frequency - Routine - Higher Risk Bridges	SC	Int	SC	
	08 - Inspection Frequency - Underwater - Lower Risk Bridg	C	Min	C	
	09 - Inspection Frequency - Underwater - Higher Risk Brid	C	Min	C	
	10 - Inspection Frequency - Fracture Critical Member	SC	Int	C	
	11 - Inspection Frequency - Frequency Criteria	SC	Int	SC	
	12 - Inspection Procedures - Quality Inspections	C	Min	C	
	13 - Inspection Procedures - Load Rating	CC	Int	CC	
	14 - Inspection Procedures - Post or Restrict	C	Min	C	
	15 - Inspection Procedures - Bridge Files	CC	Min	CC	
	16 - Inspection Procedures - Fracture Critical Members	CC	Min	CC	
	17 - Inspection Procedures - Underwater	C	Min	C	
	18 - Inspection Procedures - Scour Critical Bridges	CC	Min	CC	
	19 - Inspection Procedures - Complex Bridges	C	Min	C	
	20 - Inspection Procedures - QC/QA	C	Int	C	
	21 - Inspection Procedures - Critical Findings	SC	Int	NC	
	22 - Inventory - Prepare and Maintain	C	Min	C	
	23 - Inventory - Timely Updating of Data	C	Min	C	

Metric 23 Overview

- Bridge Metrics 7, 11, 12, & 13 - IP's (Improvement Plans)
- Bridge Metric 21- PCA (Plan of Corrective Action)
- Tunnel Metrics 11 & 12 – IP's

Metrics #6, #7, and #11

- Metric #6 IP -- Routine Inspection Frequency of Low Risk Bridges
- Metric #7 IP -- Routine Inspection Frequency of High Risk Bridges
- Metric #11 IP -- Inspection Frequency
- FHWA notified INDOT on December 17, 2020, that they were in substantial compliance with Metrics #6, #7, and #11
- Goal: INDOT will develop a backup plan to inspect bridges at the county level for county bridges that will not meet their compliance month target.

Metrics #6, #7, and #11

- IMPLEMENTATION:
- Action Item #1: INDOT representatives will increase awareness for Bridge Inspectors throughout the State of the importance of meeting these metrics. This will be accomplished through workshops and ACEC meetings.
- Estimated Completion Date: March 31, 2021
- Implementation: Workshop was held on January 22, 2021

Metrics #6, #7, and #11

- IMPLEMENTATION:
- Action Item #2: INDOT will advertise alternate LPA contracts that allow INDOT to have contracted inspectors on call.
- Estimated Completion Date: December 31, 2021
- Implementation: None to date

Metric #13

- Metric # 13 IP -- Load Rating Reporting
- FHWA notified INDOT on December 17, 2020, that they were in substantial compliance with Metric #13
- GOAL: The goal is to establish a time frame to resolve the conflict where NBIS item 66 is greater than item 64 and meet federal NBIS reporting requirements. For structures rated using LRFR methodology, HL93 Design Inventory and Operating rating factors will be generated and stored. For structures rated using LFR methodology, HS20 Design Inventory and Operating tonnages will be generated and stored.

Metric #13

- IMPLEMENTATION PLAN:
- Action Item #1 - BRADIN Enhancements:
- Action Item #2 – Industry Guidance:
- Action Item #3 – Generate HL93 Design Inventory and Operating Data:
- Action Item #4 – Supplement LPA Contracts:
- IP Overall Completion Date: March 31, 2022

Metric #21

- Metric # 21 PCA -- Critical Findings
- FHWA notified INDOT on December 17, 2021, that they were in non-compliance with Metric #21
- GOAL: INDOT is to implement a systematic process to notify FHWA of all critical findings. Notification must contain enough information to determine its severity. Also, INDOT is to train inspectors on critical findings procedures with a set frequency.

Metric #21

- Metric # 21 PCA -- Critical Findings
- IMPLEMENTATION
- Action Item#1: BIAS will be improved to provide an automated notification to the FHWA and other Bridge Inspection Supervisory Staff of new Critical Findings. This notification shall provide notice of the severity of the Critical Finding as defined in Section 2-4.02(01) of the Indiana Bridge Inspection Manual, and shall include photos, and other pertinent bridge identification data. This notification shall be sent by e-mail once an Inspector enters the data into BIAS. The Indiana Bridge Inspection Manual shall be updated to explain this notification process.
- Estimated Completion Date: September 30, 2021
- Implementation: Completed 11/23/2020

Metric #21

- Metric # 21 PCA -- Critical Findings
- IMPLEMENTATION
- Action Item#2: INDOT shall revise its current online Critical Finding Training, and all virtual instructor-led training conducted by INDOT on Critical Findings. Bridge Inspectors will be required to take the Critical Finding Training every two years. Critical finding training will include how to identify, submit and address critical findings. If an inspector is found to not to have followed the procedures, they will be required to retake the Critical Finding training within 60 days of notification.
- Estimated Completion Date: March 31, 2021
- Implementation: None to date

Metrics #11 and #12 for TUNNELS

- Metric #11 IP -- Tunnel Files
- Metric #12 IP -- QA/QC
- FHWA notified INDOT on December 17, 2020, that they were in substantial compliance with Tunnel Metrics #11 and #12

Metrics #11 and #12 for TUNNELS

- Metric #11 IP -- Tunnel Files
- GOAL: To Develop written agreements that clearly define ownership of the tunnel. It must also define maintenance, repair, rehabilitation, and inspection responsibilities.
- IMPLEMENTATION: Action Item #1: INDOT will confirm the identity of the owners of the various tunnels in the state.
- Estimated Completion Date: November 30, 2021
- Implementation: None to date.

Metrics #11 and #12 for TUNNELS

- Metric #11 IP -- Tunnel Files
- IMPLEMENTATION: Action Item #2: INDOT will assist the owners of the various tunnels in the state to develop written agreements that outline ownership, maintenance, repair, rehabilitation, and inspection responsibilities.
- Estimated Completion Date: March 31, 2021
- Implementation: None to date.

Metrics #11 and #12 for TUNNELS

- Metric #11 IP -- Tunnel Files
- IMPLEMENTATION: Action Item #3: INDOT will request owners of the tunnels to submit maintenance records to INDOT.
- Estimated Completion Date: March 31, 2021
- Implementation: None to date.

Metrics #11 and #12 for TUNNELS

- Metric #12 IP -- Tunnel QA/QC
- GOAL: INDOT shall perform QA/QC on all Tunnel Inspections performed in any given year, as outlined in the Indiana Tunnel Inspection Manual.
- IMPLEMENTATION: Action Item #1: INDOT shall perform QA/QC on all Tunnel Inspections performed in any given year, as outlined in the Indiana Tunnel Inspection Manual. This will start in 2021 Inspection cycle.
- Estimated Completion Date: December 31, 2021
- Implementation: None to date.

Potential Training Later for 2021

- Recommendations please
 - BIAS Topics
 - Text Bridge virtual
 - Critical Findings
 - Load Rating (BRADIN)
 - Hydraulics
 - Bridge Asset Management
 - Text Bridge (ADDED during last meeting)****
 - Scour (ADDED during last meeting)****
- Next Workshop 2021: TBD
- Proposed for 2021 NHI Courses:
 - NBI 2 week course– Possible in the Spring (Need to find out when) *****
 - S-Brite (Fracture Critical)- NEED TO FIND OUT BY NEXT ACEC Meeting ****

LPA Bridge Inspection Contracts- Stephanie

- Open Reports in BIAS
- Updated LPA Bridge Inspection Contract
- Bridge Inspection 2022-2025 RFP

Compliance Month

- Moving counties to other months

Other discussions

- Area of improvement
- Next Meeting: Recommend July 30, 2021 (Online)

