



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Bridge Inspection Memorandum No. 21-1 Bridge Inspection Manual Revisions

May 12, 2021

TO: All Inspection Personnel, and Consultants

FROM: /s/ Andrew Fitzgerald, PTOE, PE
Andrew Fitzgerald
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Bridge Management Division

SUBJECT: Revised Indiana Bridge Inspection Manual

REVISION: Supersedes Parts 1 Administration

EFFECTIVE: Immediately

The Indiana Bridge Inspection Manual has been revised. It now consists of the following 9 parts.

Part 1 Administration
Part 2 Types of Inspections
Part 3 Load Rating
Part 4 QC/QA
Part 5 Fatigue & Fracture Critical Inspections
Part 6 Scour
Part 7 Wearing Surfaces
Part 8 Asbestos
Part 9 Environmental Concerns
Appendix

Significant changes include for all 9 parts and appendix:

- Incorporation of memos.
 - Printable QA/QC forms.
 - Fatigue & Fracture Critical Inspection report formatting has been changed.
 - Scour POA's guidance has been updated and Monitoring Log developed.
 - Changes have been made on coding recommendations for wearing surface condition.
- Movable Bridges and NDT are no longer included in the manual since they are covered by the AASHTO and FHWA Manuals.

Part 1 – Administration

INTRODUCTION

Part 1 of the Bridge Inspection Manual contains the following chapters:

1. Program Overview
2. Inspection Program
3. Organization
4. Qualifications and Responsibilities

These chapters define the qualifications required to become a qualified team leader and other inspection personnel, along with their performance expectations and responsibilities.

The other parts of the Inspection Manual provide recommendations and guidance for the inspector, as well as regulatory guidance, and requirements that must be performed in order to provide inspection documents in the format and timely manner necessary for INDOT to fulfill the requirements of the National Bridge Inspection Standards.

The other parts of the Inspection Manual are:

- Part 2: Types of Inspections
- Part 3: Load Rating
- Part 4: QA/QC
- Part 5: Fatigue and Fracture Critical Inspections
- Part 6: Scour
- Part 7: Wearing Surfaces
- Part 8: Asbestos
- Part 9: Environmental Concerns
- Part : APPENDICES

BIAE Responsibilities

As a part of the responsibilities of this position, the BIAE shall:

1. Oversee INDOT BIE.
2. Assist the ASPM-R&P, to ensure that state and county bridge postings and restrictions are in place and done so in a timely manner.
3. Ensure proper signage is in place for bridges that require load posting or other restrictions.
4. Ensure that the District Bridge Inspection Supervisors and all INDOT BIE and any BIC under contract with INDOT, know how to determine which structures have upcoming inspections and their inspection due dates.

BIC Responsibilities

As a part of the responsibilities of this position, the BIC shall:

1. Oversee ATL and ATM at his Firm and provide Access to and Training for BIAS.
2. Accept responsibility for all contracted inspections.
3. Inspect or ensure that qualified inspectors inspect all bridges and any other type of structures included in their INDOT approved inspection contracts, in compliance with this manual.

ATL Minimum Responsibilities

c. Successful completion of FHWA-NHI-130055 **and** five years of Bridge Inspection Experience in a responsible capacity under the direction and supervision of a qualified ATL. The predominate amount of bridge inspection experience, or more than fifty percent, should come from NBIS bridge safety inspection experience. Other experience in bridge design, bridge maintenance, or bridge construction may be used to provide the additional required experience, at the approval of the SPM.

To remain qualified, all Approved Team Leaders:

1. Must successfully complete Bridge Inspection Refresher Training (FHWA-NHI-130053) at least once every 10 years. An inspector may, if they desire take the full NHI training classes again (130055/130056), in lieu of NHI class 130053, but this is not required by INDOT.