

2015 Bridge Inspection ERC Training

Merril Dougherty, P.E.
Bridge Inspection Manager, INDOT

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Bridge Inspection Email Address

- INDOT IN Bridges Help
 - inbridgeshelp@indot.in.gov
- Use this email for Bridge Inspection Communication
 - Issues with BIAS Database
 - Team Leader/Member applications



The Bridge File

- BIAS (Indiana Bridge Inspection App System)
This is the bridge file
- 60 days to submit approved data to BIAS
- BIAS viewing and data mining is available
- Bridge books not required
- Request only desired data



New BIAS

- Functioning well at this point
- App now available for Android tablets
- Consultant administrator responsibility
 - Provide access for users in their counties
 - Provide training for users in their counties
 - INDOT willing to assist with additional training
 - Training can be arranged by WebEx
- INDOT may shut off access temporarily for problems



New BIAS Continued

- Emails to ERC
 - Late inspections
 - Data clean up
- Version 7.4 update planned for October
- Adding culverts in version 7.4



MAP 21

- Element Level Inspection for National Highway System (NHS)
- Mandatory, Started October 1, 2014
- 10 Counties have NHS Bridges
- 198 County Bridges on NHS
- No Change for non-NHS Bridges



MAP 21

- Element Level Inspection Counties
 - Allen 5
 - Delaware 7
 - Elkhart 14
 - Hamilton 17
 - Lake 8



MAP 21

- Element Level Inspection Counties cont.
 - Marion 117
 - St. Joseph 16
 - Tippecanoe 9
 - Vigo 3
 - Wayne 2



FHWA 23 Metrics

- Bridge Inspection Memos
 - Team Leader email list
 - Recommended ERCs join to keep current
 - Sign up at bridge inspection web site
 - Design consultants email list



FHWA 23 Metrics

- Inspection Frequency
 - Start the contracting process early (1 Year)
 - Work with INDOT's Local Public Agency (LPA) Division
- Routine, Fracture Critical and Underwater
- Special Inspections
- Damage Inspections



Underwater Inspections

- Is underwater inspection necessary?
 - Inspect the structure in the summer or fall when wading may be possible
 - Supply information to request removal from underwater inspection
 - Investigate frequency
 - Wadding and probing



Special Inspections

- Investigate need and frequency
- Rehabilitate
- Extend frequency



FHWA 23 Metrics

- Scour Critical Bridges
 - Plan of action required
 - Properly designed countermeasures



Scour Critical Bridges

- Install counter measures
 - Engineering not always required
 - Class II revetment riprap on filter fabric
 - Class I revetment riprap on filter fabric for very flat drainage structures
 - Cheaper than event inspections and detailed P.O.A's
- 7 counter measures have been installed
- 6 scour evaluation has not been done
- 4 and below, scour critical, require plan of action



FHWA 23 Metrics

- Critical Findings
 - What is a Critical Finding?
 - Report to INDOT Program Manager
 - Description of the Critical Finding
 - Photos of the Critical Finding
 - Report follow up and outcome
 - INDOT tracking database



Revised Bridge Inspection Manual

- Inspection Types
 - Special inspections extended up to 60 months.
 - In-depth inspections (New) – 96 months
 - Initial inspections – 90 days



Revised Bridge Inspection Manual

- Inspection frequency
 - Rating of 4 or less deck, superstructure, substructure, or culvert
 - 12 month maximum
 - Additional cost to contracts
 - Rehabilitation?



Revised Bridge Inspection Manual

- Special Inspections – Complex Bridges
 - Cable-stayed bridges
 - Movable bridges
 - Suspension bridges
 - Bridges designated by the State Program Manager
- Only 9 complex structures in Indiana



Quarterly Compliance Reports

- Communication with ERCs
- Notice of late inspections
- Notice until resolved
- Response required



FHWA Box Beam Bridge Review

- Ratings of 2 or 3
- Field visits to a sample
- Notice to ERCs for critical findings
- Illinois participation
- Findings
 - Ratings
 - Load Ratings



Questions?

Merril Dougherty

mdougherty@indot.in.gov

317-232-6776 Office

317-439-8970 Cell

INDOT IN Bridges Help Email address:

inbridgeshelp@indot.in.gov

