2019 Michigan Bridge Conference
Metric 15 – Bridge Files
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Presentation Summary

• Describe the intent of the metric
• Describe the process for evaluation and compliance determination
• Identify recent changes to the metric
• Metric Compliance Trend.
Metric 15 Intent

Metric 15 verifies bridge files contain applicable components.

What are some applicable components?
Metric Intent

From the Metric 15 commentary:

The list of applicable significant bridge file components for Metric 15, which is a subset of the larger list provided in the MBE is composed of:

- Inspection reports
- Waterway information – channel cross-sections, soundings, stream profiles
- Special inspection procedures or requirements
- Load rating documentation, including load testing results
- Posting documentation
- Critical findings and actions taken
- Scour assessment
- Scour Plan of Action (POA) (for scour critical bridges and those with unknown foundations) and documentation of post-event inspection or follow-up
- Inventory and evaluation data and collection/verification forms
- Significant correspondence
Min-AL M15

- Monitor PCA
- Assess based on previous review results and knowledge and awareness
Int-AL M15

• In addition to Min-AL:
  – Review randomly sampled bridge files

Intermediate Assessment (Int-AL): In addition to the Min-AL:
• Randomly sample bridges to verify that bridge files and significant bridge file components exist; if some components are only referenced, verify the components exist in the referenced location(s) and are readily available.

Note:
No field review site visits required
Int-AL M15

- Sampling is Statewide
- Partitioning is not allowed
Int-AL M15

File Review Form:
For your use
Generated from the Sampling Tool

<table>
<thead>
<tr>
<th>Metric 15 – Inspection Procedures, Bridge Files</th>
</tr>
</thead>
<tbody>
<tr>
<td>File Components Present – (Y/N/[R]eferenced)</td>
</tr>
<tr>
<td>Inspection Reports:</td>
</tr>
<tr>
<td>Inspection Procedures:</td>
</tr>
<tr>
<td>Critical Findings:</td>
</tr>
<tr>
<td>Inventory Data:</td>
</tr>
<tr>
<td>Metric 15 Notes:</td>
</tr>
</tbody>
</table>
Int-AL M15

If a significant component is not located in the bridge file, but is referenced to a location, verification of existence of the referenced file must be completed.
InD-AL

Same as other metrics

**In-Depth Assessment (InD-AL):** Perform one of the following:
- Division InD-AL – In addition to the Int-AL, develop guidelines for review, with concurrence from BSE, and conduct in accordance with guidelines.
- National InD-AL – Conduct in accordance with national direction and guidelines.
Each bridge is considered one data point for measuring compliance.

- Must meet all items identified in the metric Compliance Levels
- If one item is not acceptable, the whole bridge is counted as not meeting criteria
- \% \equiv \frac{(\text{# bridges meeting crit.})}{(\text{# reviewed})} \times 100
Compliance Determination

**Compliance:**
All bridges have files with applicable significant components

**Compliance (C):** All of the following must be met for C:
- All sampled bridges have files.
- All sampled files have the applicable significant components.
Substantial Compliance:
All bridges have files with 85% having applicable significant components

Substantial Compliance (SC): All of the following must be met for SC:
- All sampled bridges have files.
- At least 85% of sampled bridge files have the applicable significant components.
Compliance Determination

Non-Compliance:
One or more SC criteria not met
Compliance Trend – 2011-18
Questions