**MoDOT/MTI Structures Research Program**

**Progress Report – 9/30/2019**

**Title: Developing Implementation Strategies for Risk Based Inspection**

**Project Number: TR201910**

**Principal Investigator (PI): Glenn Washer**

**Co-PI(s): Henry Brown**

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| --- | --- |
| **Award date:**  | 11/01/2018 |
| **Scheduled completion date:** | 12/31/2021 | **% of project completed to date:** | 40.0% |
| **Total budget:**  | $400,000.00 | **% of budget expended to date:**  | 44.0% |
| **Draft report due:** | 09/30/2021 | **Final report due:** | 11/30/2021 |

Provide a short description of the **work currently underway**.

*Use* [*additional notes section*](#notes) *if you need to provide more information.*

Analysis of data from the RAP meetings in Wisconsin, Pennsylvania, Missouri, Idaho, Illinois, and Washington is in progress. The data collected through the RAP meetings are being entered into flow charts to characterize the RAP data collection steps, levels of detail, and level of importance (screening, high, moderate and low) for damage modes and attributes. Also, searches for the definitions and interpretations of the condition rating (CR) and condition state (CS) of defects from every state inspection manual are in progress to supplement the RAP meeting data.

Alabama has joined the pooled fund study. Coordination with Alabama regarding the project is being initiated.

Provide a short description of the **noteworthy activities/accomplishments** during this reporting period.

*Use* [*additional notes section*](#notes) *if you need to provide more information.*

Additional Reliability Assessment Panel (RAP) meetings were conducted with five participating states. A summary of dates for all of the completed RAP meetings is shown in Table 1.

**Table 1. RAP Meeting Schedule**

|  |  |  |
| --- | --- | --- |
| **State** | **Dates** | **Bridge Family** |
| Idaho | July 24-25, 2019 | Pre-stressed concrete |
| Illinois | August 1-2, 2019 | Steel |
| Missouri | July 10-11, 2019 | Steel |
| Pennsylvania | July 8-9, 2019 | Steel |
| Washington | August 6-7, 2019 | Pre-stressed concrete |
| Wisconsin | June 10-11, 2019 | Steel |

The RAP meetings included discussion of attributes, consequences, and scenarios for pre-stressed concrete and steel bridges to provide input for the risk analysis that will be undertaken to determine the inspection interval for routine inspection.

Identify **issues or problems** that need to be addressed.

*Use* [*additional notes section*](#notes) *if you need to provide more information.*

None

Provides dates for when the **next progress report or presentation** due:

December 31, 2019 (Quarterly report)

**Additional notes**: