**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: \_\_\_\_\_10/01/2011\_\_\_\_\_\_

Lead Agency (FHWA or State DOT): \_\_\_\_\_\_FHWA\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**INSTRUCTIONS:**

*Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.*

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| **Transportation Pooled Fund Program Project #***(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)*TPF-5(180) | **Transportation Pooled Fund Program - Report Period:**□Quarter 1 (January 1 – March 31)□Quarter 2 (April 1 – June 30)XQuarter 3 (July 1 – September 30)□Quarter 4 (October 1 – December 31) |
| **Project Title:**Impact of New Seismic Design Provisions on Bridges in Mid-America: A Pilot Pooled Funds Project |
| **Name of Project Manager(s):****W. Phillip Yen** | **Phone Number:****202-493-3056** | **E-Mail**Wen-huei.yen@dot.gov  |
| **Lead Agency Project ID:** | **Other Project ID (i.e., contract #):** | **Project Start Date:**Feb 3, 2009 |
| **Original Project End Date:**Mar 31, 2012 | **Current Project End Date:****Mar 31, 2012** | **Number of Extensions:** |

Project schedule status:

□ On schedule X On revised schedule □ Ahead of schedule □ Behind schedule

Overall Project Statistics:

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|  **Total Project Budget** |  **Total Cost to Date for Project** |  **Percentage of Work**  **Completed to Date** |
| $690,000 | $690,000 | 90% |

***Quarterly*** Project Statistics:

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| --- | --- | --- |
|  **Total Project Expenses**  **and Percentage This Quarter** |  **Total Amount of Funds**  **Expended This Quarter** |  **Total Percentage of**  **Time Used to Date** |
| 1% | 1% | 92% |

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| **Project Description**:1. The decision was made to test the full-scale bridge column in the UCSD’s Shake Table.
2. The large scale (full) bridge column specimen was casted in July 2010.
3. In August, 2010, an analytical model was generated to simulate the testing result. The lumped plasticity model was used. The ground motions were concatenated together to see the cumulative effects of the tests in succession.
4. The bridge column test set up can be seen with the following link: ftp://137.110.165.25/ .
5. In the week of the September 19-25, 2010, the full-scale column was tested. A series shake table tests were performed, and the project is performing the test results analysis. A preliminary test result was discussed and presented in the 2011’s TRB Annual Meeting at AFF50 Bridge Seismic Design and Performance Committee meeting.
6. The test result is now being analyzed and will be compared with similar bridge design with smaller scale. The scale effects of this full-scale shake table test will be studied and provide suggestions of the validation of smaller scale testing. The test results implications and comparison between this full scale and other smaller scale test results are expected to be completed by March, 2012.
7. A draft final report of full column test is completed and will be posted to the FHWA ftp website in March 2012
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| **Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**Reviewing and validating the test results and report from the project. |
| **Anticipated work next quarter**:Reviewing and validating the test results and report from the project. |

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| **Significant Results:** |
| **Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that** **might affect the completion of the project within the time, scope and fiscal constraints set forth in the** **agreement, along with recommended solutions to those problems).** |

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| **Potential Implementation:**  |