

Transportation Pooled Fund Program

Project Title:

Full-Scale Seismic Performance Testing of U.S. Highway Bridge Column

Project Manager and Phone Number:

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Project No: TPF-5(180)

Project is: under the R&D

Reporting Period:

July – September 2010

Description of Work Performed and Progress:

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.
3. In August, 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, the full-scale column was tested. A series shake table tests were performed, and the project is performing the test results analysis.
6. The preliminary test results and testing videos will be discussed in the next report.

STATUS AND COMPLETION DATE

Percentage of work completed to date for total project

Project is: 75%

The project is on schedule.

Expected Completion Date: 09/30/2011

Project Manager

W. Phillip Yen, Ph.D., P.E.