NEES COLLABORATIVE RESEARCH

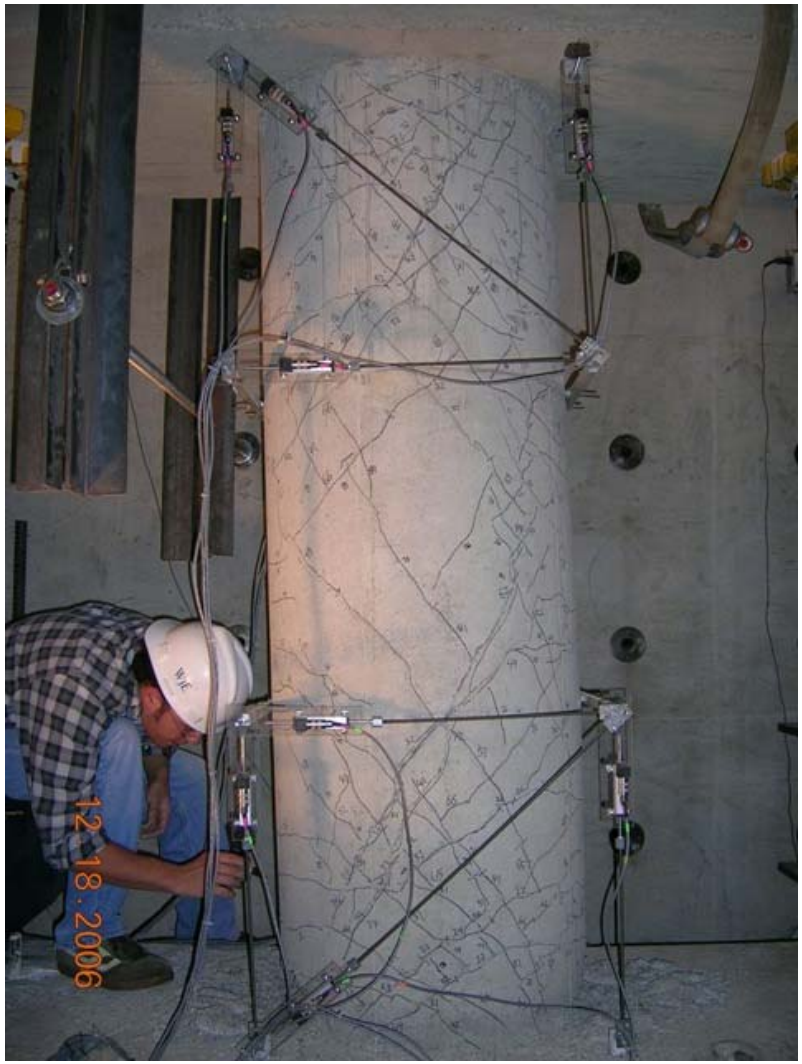
Behavior of Spirally Reinforced Concrete Columns under Load Reversals

Test set-up

This program is part of a collaborative study of Soil-Foundation-Structure-Interaction (SFSI). To study the prototype structure, a series of four physical models were tested in the overall project. These models were tested using one of the following test types: centrifuge testing,field tests, shaking table tests, and laboratory tests. Large-scale individual columns and bridge bents have been built and tested at Purdue to evaluate strength degradation in flexure and shear under cyclic loads.

Project Participants

U of Nevada, Reno	Shake table tests
Purdue university	Laboratory tests
U of Texas, Austin	Field tests
UC Davis	Centrifuge tests



Photograph of half-scale column test

Photograph of quarter-scale bent