NEES Experiment Data File Data Curation Report

Award Number: 0421180

NEEScentral ID: NEES-2006-0116

Project: NEESR-II: Highly Damage Tolerant Slab-Column Frame Systems

Curation Status Key
Incomplete: Curation in progress
Current: Curation up-to-date
Complete: Object complete - curation complete

PI: Gustavo Parra-Montesinos

Curation Status: Complete

NEEScentral Viewability: PUBLIC

Experiment Title: MAST Specimen SB1

Keywords:

Fiber_Reinforced_Concrete
Lateral_Displacement
Multi-Axial_Subassemblage_Te
Punching_Shear
Shear_Strength
Slab_Column_Connection
Smart_Structure_Technologies

Experiment Number: Experiment-1

Experiment PI: Gustavo Parra-Montesinos

Experiment CO-PI: Carol Shield

Research Status: Complete

Curation Date: 8/3/2009

Curation Status: Complete

NEEScentral Viewability: PUBLIC

Description: Test specimen has full scale with one and half story.

Experiment Data Files

File/Folder Name	Title	Description	File Type	NEEScentral Creation Date
1.75 & 2 % Drift.dat	MAST Experiment SB1; Analysis; 1.75 & 2 % drift	Files were named based on the drift cycles.	dat	3/14/2009

File Name	Title	Description	File Type	NEEScentral Creation Date
Load_Drift.xls	Load Displacement Relationship	The drift is calcuated with specimen height equal to 205 in which is measured from top of the base block to the top of top block	xls	3/14/2009
Rotation.xls	MAST Experiment SB1; Analysis; Specimen Rotation Motions	Specimen Rotation Motions	xls	4/19/2009

Experiment Title: MAST Experiment SB2

Keywords:

Deformation
Fiber_Reinforced_Concrete
Multi-Axial_Subassemblage_Te
Punching_Shear
Slab_Column_Connection
Smart_Structure_Technologies

Experiment Number: Experiment-2

Research Status: Complete

Curation Date: 8/3/2009

Experiment PI: Gustavo Parra-Montesinos

Curation Status: Complete

Experiment CO-PI: Carol Shield

NEEScentral Viewability: PUBLIC

Description: Test specimen has full scale with one and half story. Objective: Evaluate punching shear resistance and deformation capacity of slab-column connection by using high-strength hooked steel fibers.

Experiment Data Files

File/Folder Name	Title	Description	File Type	NEEScentral Creation Date
0.25%.dat	MAST Experiment SB2; Analysis; 0.25% Drift	Files were named based on drift cycles.	dat	4/19/2009
0.5%.dat	MAST Experiment SB2; Analysis; 0.5% Drift	Files were named based on the drift cycles.	dat	4/19/2009
0.75%.dat	MAST Experiment SB2; Analysis; 0.75% Drift	Files were named based on the drift cycles.	dat	4/19/2009

File Name	Title	Description	File Type	NEEScentral Creation Date
1.0%.dat	MAST Experiment SB2; Analysis; 1.0% Drift	Files were named on the drift cycles.	dat	4/19/2009
1.25%.dat	MAST Experiment SB2; Analysis; 1.25% Drift	Files were named based on the drift cycles.	dat	4/19/2009
1.5%.dat	MAST Experiment SB2; Analysis; 1.5% Drift	Files were named based on the drift cycles.	dat	4/19/2009
1.75%.dat	MAST Experiment SB2; Analysis; 1.75% Drift	Files were named based on the drift cycles.	dat	4/19/2009
2.0%.dat	MAST Experiment SB2; Analysis; 2.0% Drift	Files were named based on the drift cycles.	dat	4/19/2009

File Name	Title	Description	File Type	NEEScentral Creation Date
2.5%.dat	MAST Experiment SB2; Analysis; 2.5% Drift	Files were named based on the drift cycles.	dat	4/19/2009
Config	Configuration Folder - Graphing Files	Graphing Calculator files for creating graphs of the Experiment SB2 data.	gcf	3/26/2009
Krypton	Experiment 2; krypton; Unprocessed Data	Experiment 2; krypton; Unprocessed Data	csv	3/26/2009
Load_Drift.xls	MAST Experiment SB2 Test; Analysis; Load_Drift	Specimen load_drift motion data.	xls	4/19/2009
Rotation.xls	MAST Experiment SB2; Analysis; Rotation	Specimen Rotation Motions	xls	4/19/2009

Experiment Title: MAST Experiment SB3

Keywords:

Deformation
Fiber_Reinforced_Concrete
Multi-Axial_Subassemblage_Te
Punching_Shear
Shear_Studs
Slab_Column_Connection

Experiment Number: Experiment-3

Research Status: Complete

Curation Date: 8/4/2009

Experiment PI: Gustavo Parra-Montesinos

Curation Status: Complete

Experiment CO-PI: Carol Shield

NEEScentral Viewability: PUBLIC

Description: Test specimen has full scale with one and half story. Objective: Evaluate punching shear resistance and deformation capacity of slab-column connection by using headed shear studs. Testing done using bi-axial motion. Setup directory includes tables of specimen concrete cylinder strength (slab, column and block strength) and a table on steel strength in terms of yield stress, average yield stress, ultimate stress and average ultimate stress. Setup also has tables of the strain gauge and LVDT locations in the Sensor Location Plan folder. The Models folder contains drawings of the specimen and sensor layout.

Experiment Data Files

File/Folder Name	Title	Description	File Type	NEEScentral Creation Date
20070912_0.25%.dat	MAST Experiment SB3; Analysis; 20070912; 0.25% Drift	MAST Experiment SB3; Analysis; 20070912; 0.25% Drift	dat	4/19/2009
20070912_0.5%.dat	MAST Experiment SB3; Analysis; 20070912; 0.5% Drift	MAST Experiment SB3; Analysis; 20070912; 0.5% Drift	dat	4/19/2009
20070912_0.75%.dat	MAST Experiment SB3; Analysis; 20070912; 0.75% Drift	Files were named based on the drift cycles.	dat	4/19/2009

File Name	Title	Description	File Type	NEEScentral Creation Date
20070912_1.0%.dat	MAST Experiment SB3; Analysis; 20070912; 1.0% Drift	Files were named based on the drift cycles.	dat	4/19/2009
20070912_1.25%.dat	MAST Experiment SB3; Analysis; 20070912; 1.25% Drift	Files were named based on the drift cycles.	dat	4/19/2009
20070912_1.5%.dat	MAST Experiment SB3; Analysis; 20070912; 1.5% Drift	Files were named based on the drift cycles.	dat	4/19/2009
Load_Drift.xls	MAST Experiment SB3; Analysis; Load Drift Relationship	MAST Experiment SB3; Analysis; Load Drift Relationship	xls	4/19/2009
Rotation.xls	MAST Experiment SB3; Analysis; Rotation and Unbalanced Moment	Rotation table shows unbalanced moment, drift and rotation; Unbalanced Moment table shows force, strand load and unbalanced moment.	xls	4/19/2009

File Name	Title	Description	File Type	NEEScentral Creation Date