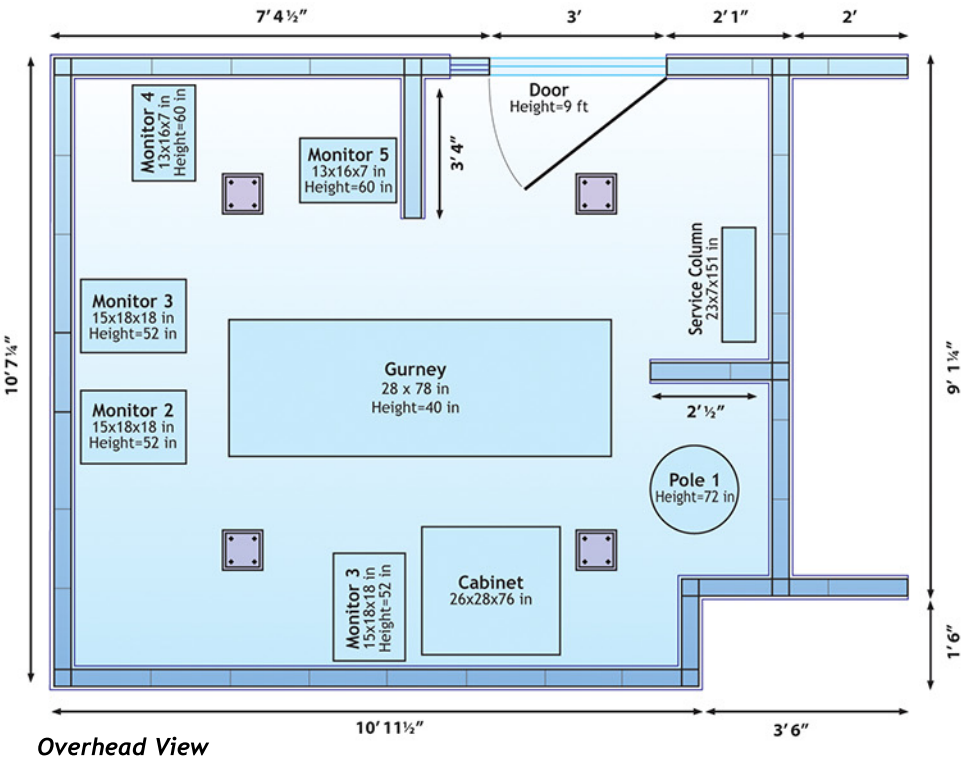
University at Buffalo
Nonstructural Components Simulator Dedication and Inaugural Earthquake Demonstration

3:00 pm ■ October 12, 2007 ■ University at Buffalo



Overhead View

Composite Hospital Room Demonstration Specimen

The inaugural test on the University at Buffalo Nonstructural Components Simulator (UB-NCS) will demonstrate the effects of earthquake-induced building motions on a full-scale composite hospital room equipped with nonstructural content typically found in an emergency room and other critical rooms in a hospital. The nonstructural components include steel stud partition walls, suspended ceiling, sprinkler system with horizontal and vertical piping spanning both stories, and copper medical gas lines. Medical equipment includes wall-mounted patient monitors, ceiling mounted surgical lamp, free-standing IV poles with infusion pumps, operating room video equipment rack on casters, and patient gurney. It is expected that the hospital room will be subjected to various levels of shaking including design level motions and potentially the expected motions during a maximum credible earthquake.

Internal Room Photos

University at Buffalo
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SEESL
Structural Engineering and Earthquake Simulation Laboratory

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UB-NCS Dedication and Demonstration - SEESL, Ketter Hall

Welcoming Remarks

- *A. Scott Weber, Chair, Department of Civil, Structural and Environmental Engineering*
- *John B. Simpson, President, University at Buffalo*
- *Andre Filiatrault, Director, Structural Engineering and Earthquake Simulation Laboratory*

Demonstration Overview

- *Gilberto Mosqueda, Department of Civil, Structural and Environmental Engineering*

Dedication, UB-NCS Testing and Demonstrations

- *Andre Filiatrault*
  - **Demonstration #1**
- *Gilberto Mosqueda*
  - **Inspection & Video of Preliminary Tests and Demonstration #1**
  - **Demonstration #2**
  - **Inspection & Video of Demonstration #2**
  - **Summary of Results**

Closing Remarks

- *A. Scott Weber*