

National Earthquake Hazards Reduction Program

... a research and implementation partnership

NIST BFRL Program Update

Presentation to Advisory Committee on Earthquake Hazard Reduction
15 March 2010

Jack Hayes – NEHRP Director



FEMA

NIST
National Institute of
Standards and Technology



USGS
science for a changing world

national **earthquake** hazards reduction program

Presentation Outline

Major updates since November meeting ...

- Budget, General Issues
- In-house developments
- Program Developments
- Concluding Remarks



Budget, General Issues

- Program managed as part of BFRL Disaster-Resilient Structures and Communities Strategic Goal area
- FY 2010 STRS appropriation: \$4.1M
 - Includes \$3.35M for research
 - Includes \$750K for NEHRP Secretariat
- FY 2011 STRS request: \$4.1M
- FEMA, NSF, & USGS provide \$85K each annually, cash or in-kind, for NEHRP Secretariat



Continued Staff Development



Jay Harris - 2008



Kevin Wong - 2009



Jeff Dragovich - 2009



Michelle Harman - 2009



Anna Lang - 2010



Matthew Speicher - 2010



Program Developments

- Two ARRA grants awarded in January
 - Performance-Based Seismic Design Methods and Tools for Reinforced Masonry Shear Wall Structures – UC San Diego (\$1.5M)
 - Development and Evaluation of Performance-Based Earthquake Engineering-Compliant Structural Systems – VA Tech (\$580K)
- Additional associated BFRL effort (2011 Initiative):

Disaster and Failure Event Studies



Concluding Remarks

- Combination of late 2009 (last year) arrival of funding and evolving in-house work force resulted in greater reliance on extramural work than will be true in the future.
- 2007 – 2009 projects have largely arisen from specific needs found in FEMA projects.
- As in-house work force grows and stabilizes and results of National Research Council study become available, more long-range planning will be accomplished, giving clearer future focus.
- Efforts have been initiated to foster close, synergistic working relationship between FEMA and NIST, so that both agencies' projects mesh well.

