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
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.