National Earthquake Hazards Reduction Program

... a research and implementation partnership

Program Update

Presentation to Advisory Committee on Earthquake Hazard Reduction

15 March 2010

Shyam Sunder – NIST BFRL Director and ACEHR Designated Federal Officer

Jack Hayes – NEHRP Director











Presentation Outline

- NEHRP Reauthorization Status
- Program Budgets
- Status of Strategic Plan Implementation
- National Research Council Study Status
- Discussion of ACEHR Resilience White Paper
- Status of Annual Report Preparation
- Discussion



NEHRP Reauthorization Update

- HR 3820 passed House of Representatives (3/3/10)*
- Most language unchanged from draft briefed to ACEHR in November
- Authorizations were changed slightly from version briefed in November
 - 2009 Authorizations (last year of PL 108-360):

FEMA: \$23.64M USGS: \$88.9M (with not less than \$36M for ANSS)

2010 Authorizations in HR 3820 (not yet law):

FEMA: \$10.238M USGS: \$90.0M (with not less than \$36M for ANSS)

NIST: \$7.0M NSF: \$64.125M

^{*} See http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=111_cong_bills&docid=f:h3820rfs.txt.pdf



2005-2011 NEHRP Agency Budgets

Enacted Agency NEHRP Budgets (\$M)							
FY	FEMA	NIST	NSF	USGS	NEHRP Total		
2005	14.7	0.9	53.1	58.4	127.1		
2006	9.5	0.9	53.8	54.5	118.7		
2007	7.2	1.7	54.2	55.4	118.5		
2008	6.1	1.7	53.6	58.1	119.5		
2009	9.1	4.1	55.0	61.2	129.4		
2010	8.9	4.1	55.3	62.8	131.1		

Requested Agency NEHRP Budgets (\$M)								
FY	FEMA	NIST	NSF	USGS	NEHRP Total			
2011	9.1	4.1	53.8	62.3	129.3			

Notes:

- 1. ARRA funds are not included.
- 2. FY 2011 "requested" budget is estimated portion of President's FY 2011 budget request that will be allocated for NEHRP activities.
- 3. FEMA FY 2005 budget covered program activities and S&E, but excluded state assistance grants.
 - FEMA FY 2006 FY 2008 budgets covered program activities, but excluded S&E and state assistance grants.
 - FEMA FY 2009 FY 2010 budgets cover program activities and \$2.3M in state assistance grants, but exclude S&E.
- 4. NIST budgets support NEHRP Secretariat and NIST Earthquake Risk Mitigation R&D Program.
- 5.NSF enacted budgets include NEES O&M funds: FY 2005 -\$17.9M, FY 2006 \$21.0M, FY 2007 \$20.7M, FY 2008 \$19.4M, FY 2009 \$21.0M, FY 2010 \$22.0M and FY 2011 \$22.5M.
- 6. USGS authorization includes for ANSS: FY 2005 \$30M, FY 2006 and beyond \$36M per year.
 - USGS FY 2005 budget includes funds for tsunami warning from emergency supplemental appropriation (\$3.95M for EHP and \$4.15M for GSN).
 - USGS budgets include GSN funds: FY 2005 \$7.5M, FY 2006 \$3.9M, FY 2007 \$3.9M, FY 2008 \$4.4M, FY 2009 \$5.5M, FY 2010 \$5.8M and FY 2011 \$5.4M.
- 7.NIST funding does not include the FY 2011 Disaster-Resilient Buildings and Infrastructure Initiative which supports multiple hazards including, but not solely related to, the NEHRP program.



Strategic Plan Implementation Status

- FEMA completed the 2009 *Recommended Provisions for Seismic Regulations* to support the development of revised building codes.
- USGS has initiated major instrumentation upgrades to the Advanced National Seismic System (ANSS), supported with ARRA funding.
- NSF awarded new operations cooperative agreement to Purdue University for the Network for Earthquake Engineering Simulation (NEES) (known as NEEScomm).
- NIST increased its research efforts in support of performancebased seismic engineering and proceeded with staff buildup activities.



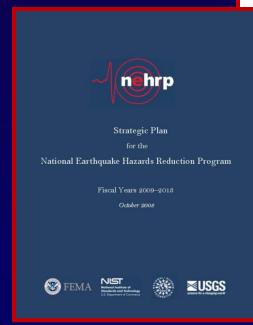
Strategic Plan Implementation Status (continued)

- Proposed 2011 NIST initiative, Disaster-Resilient Buildings and Infrastructure, will support post-earthquake reconnaissance and database management.
- FEMA and NIST initiated a formal interagency process to develop closely coordinated research and knowledge transfer activities.
- NIST & NSF made additional research grant awards under ARRA.
- Agencies will report other details during their individual presentations.



National Research Council Study Status

- Project well underway
- National workshop conducted at UC Irvine, August 2009
- Committee met in Chicago in October 2009
- Committee's last meeting to be held in DC in early December 2009
- Final report anticipated by late spring to early summer 2010 contract expires 7/28/10.



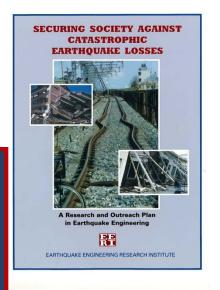


Figure courtesy of EERI



ACEHR Resilience White Paper

- White paper received and reviewed by NIST Director.
- White paper briefed to NEHRP Interagency Coordinating Committee (ICC) at its meeting on 2/26/10.
- White paper transmitted to Mr. Richard Reed, Special Assistant to the President and Senior Director for Resilience
- ICC requested formal Program Coordination Working Group (PCWG) assessment of 7 white paper recommendations – to occur in coming weeks.



Annual Report Preparation Status

- Last authorization required annual reports from ICC to Congress. This requirement as been met through 2008.
- Draft re-authorization language requires full report every two years and a brief report on coordinated interagency budgets and program highlights on alternate years – now in preparation for 2009.
- Next full report will be a "biennial" 2009-2010 report, to be released in early 2011.



ACEHR Discussion?

