

State of California
Seismic Safety Commission

Memo

To: Sonja Berndt
Deputy Attorney General

From: Richard McCarthy
Seismic Safety Commission
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Date: 1/31/14

Subject: Status Report on California Research and Assistance
Funds Expended Through December 31, 2013

I am pleased to provide you with the Commission's annual report to the Attorney General's Office on the funds expended from the California Research and Assistance Fund

As of December 31, 2013 the Commission has expended \$2,578,194 on 16 projects. The total amount leveraged from project partners is \$5,474,424 (2.1 to 1 leveraging ratio). The chart below illustrates yearly amounts spent since the program began in 2008.

Year	CRAF Funds	Match Funds
2008	\$250,000	\$1,510,000
2009	\$597,916	\$400,000
2010	\$448,872	\$1,739,718
2011	\$550,000	\$853,646
2012	\$459,827	\$548,360
2013	\$271,579	\$422,700

In 2013, five projects were completed totaling \$271,579. Funds contributed by partners totaled \$422,700 equaling a leveraging ratio of 1.6 to 1.

The Commission did not charge overhead (10%) for any projects until FY 2012/13 when it used \$183,000 in cumulative total overhead.

The Commission intends to complete at least 5 projects in 2014. As promised, all

projects will meet the conditions set forth in the Gift Agreement.

The attached chart provides a complete breakdown of all funds expended to date.

Should you require copies of completed projects or have any questions, please give me a call at 916-296-1110.

Attachments: 1

Cc:

Status of Seismic Safety Commission Research and Assistance Fund

Projects Underway and Planned to be Completed in 2014

Project Name	Description	CSSC Funds	Amount Leveraged (Partner Contributions)	Contractor	Status
Disaster preparedness education and outreach to small businesses in the State of California	The SBDC proposes to work with the SSC to provide disaster preparedness training and one-on-one consulting to small business owners throughout the state, with the objective of helping the small business sector maintain continuity and mitigate loss in the event of serious natural disasters, including but not limited to earthquakes.	\$49,980	No Match	California Small Business Development Center	January 2014
Global Earthquake Model (GEM) Back to Normal	The Global Earthquake Model (GEM) organization will create the first-ever computerized seismic risk software model (model) to quantify and speed recovery of California's building stock. The GEM software model will estimate the amount of recovery time for a community or region within California to "get back to normal".	\$440,000	\$240,000	Global Earthquake Model Organization	DGS Approval

Completed Projects

Completed in 2013

Project Name	Description	CSSC Funds	Amount Leveraged (Partner Contributions)	Contractor	Status
Lake Tahoe Hazard Survey	Identify geologic hazards and seiche sources at the bottom of Lake Tahoe using a unique remotely operated vehicle. CGS- Provide technical resources and produce reports.	\$49,990 \$25,589	Northern Illinois University \$50,000 Phase I California Geological Survey \$23,700 Phase II (\$73,700)	Northern Illinois University, California Geological Survey	Completion Date: November 2013
Totally Unprepared Phase II	Continue to use the media produced under Phase I (mobile applications)	\$49,000	Cal EMA (\$300,000)	UCSD	September 2013
Update to Loss Reduction Plan- Economic Element	Review of the current plan and add an element for economic issues following a disaster that are not currently adequately addressed in the current Loss Reduction Plan	\$49,000	No Match	SJSU	January 2013
Coordinated Planning and Response for Fire Following Major Earthquake Phase II	Follow up on 2011 Fire Following Earthquake study, (Phase I) with regards to water supply (Phase II). This program will take the next steps to deal with water supply issues by coordinating meetings between fire departments and water districts.	\$49,000	Seismic Safety Commission Phase I (\$49,000)	PEER	Completion Date: December 2013
Earthquakes and California Agriculture: Identifying and Measuring Vulnerabilities and Potential Mitigation of Losses	The goals of this project are to: (a) identify the most significant vulnerability in agriculture due to seismic disasters; (b) project potential losses quantitatively; (c) to assess potential ways to mitigate seismic damages, (d) suggest ways that farmers and others in agriculture might be better prepared for seismic disasters; and (e) identify information needs and potential roles for local, state and federal governments.	\$49,000	No match	UC Davis	December 2013

Status of Seismic Safety Commission Research and Assistance Fund Completed in 2012

Project Name	Description	CSSC Funds	Amount Leveraged (Partner Contributions)	Contractor	Status
Survey and Evaluations of Recent Hospital Evacuations Following Earthquakes in California, New Zealand, and Mexico	Interview hospital administrators, employees, and facility managers. Review current procedures, hospital evacuations, and lessons learned from past earthquakes in NZ, CA, and Mexico	\$49,900	NZ Ministry of Health \$20,000 NSF Grant \$50,000 Hospital soft match \$1,200 (\$71,200)	PEER	Completion Date: September 2012
Maximizing the Impact of Future ShakeOut earthquake drills in California	Summarize the history and development of the California ShakeOut. Summarize previous ShakeOut evaluation findings. Integrate key findings. Develop recommendations for future planning and coordination of earthquake drills in California.	\$49,900	Michele Wood \$43,800 SCEC \$34,080 RiskRed \$40,000 Deborah Glik \$15,000 (\$132,880)	CSUF	Completion Date: December 2012
Performance of Hospital Nonstructural Component and Systems in Earthquakes and Post-Earthquake Fire	Shake table test and fire of a hospital facility and an educational video.	\$360,027	Schindler Elevator Hilti Bolts Mason Industries HVAC Permasteelclisa Cladding MMFX NSF Others (\$344,280) <i>The partners and funds listed above were specific to the base isolator and fire portion of the tests</i>	University of California San Diego	Completion Date: December 2012

Completed in 2011

Project Name	Description	CSSC Funds	Amount Leveraged (Partner Contributions)	Contractor	Status
Pilot program for Evaluation of the Most Seismically Vulnerable California Public School Facilities	Developed a workable template that provides a standard procedure for an efficient, effective, consistent, and standardized method for seismic evaluation of vulnerable public school buildings at a minimum cost.	\$250,000	OPSC \$37,600 DSA \$46,046 (\$83,646) <i>Assists in release of \$199 million in Prop 1D seismic retrofit funds</i>	Office of Public School Construction	Completed December 2011
Totally Unprepared Campaign Phase I	Used the social media for public outreach and education	\$300,000	CEA \$250,000 Cal EMA \$500,000 American Insurance Assoc. \$20,000 (\$770,000)	UCSD	Completed December 2011

Status of Seismic Safety Commission Research and Assistance Fund Completed in 2010

Project Name	Description	CSSC Funds	Amount Leveraged (Partner Contributions)	Contractor	Status
Distant Tsunami Risk to the Ports of Los Angeles/Long Beach Harbor	Estimated water current velocities within the Ports of Los Angeles/Long Beach from multiple sources around the Pacific Basin.	\$50,000	NOAA (\$350,000)	National Oceanic and Atmospheric Admin./Univ. of Washington	Completed May 2010
California Earthquake Structural Retrofitting Program	Developed a building code for residential seismic retrofitting.	\$49,000	CA Dept of Housing & Community Development (\$59,718) <i>Assisted in helping the California Earthquake Authority with releasing \$20 million for voluntary seismic retrofit of private residence.</i>	CA Dept of Housing and Community Development	Completed May 2010
Tall Buildings Initiative	Developed seismic performance objectives and alternative design acceptance criteria for future tall buildings.	\$349,872	CA Geological Survey/SMIP \$100,000 CA Governor's OES \$100,000 , LA Dept of Building & Safety \$200,000 NSF through PEER \$500,000 USGS \$130,000 The Charles Pankow Foundation \$250,000 FEMA \$50,000 (\$1,330,000)	Pacific Earthquake Engineering Research Center	Completed December 2010

Completed in 2009

Project Name	Description	CSSC Funds	Amount Leveraged (Partner Contributions)	Contractor	Status
Household Preparedness Survey	Survey of the state of household earthquake mitigation and preparedness in 2008 for selected racial and ethnic minorities, and different geographical areas at high risk. Partnership with the OES, California Volunteers, Governor's Office Insurance Advisor, Office of Homeland Security, and the University of California at Los Angeles.	\$320,131	Cal EMA \$350,000 Institute for Home & Business Safety \$35,000 Southern California Association of Governments \$15,000 (\$400,000)	University of California, Los Angeles	Completed Spring 2009
Field Act Building Performance Study	Evaluated the differences in the earthquake performance of public schools constructed to Field Act standards and buildings constructed to non-Field Act standards.	\$277,785	\$0 No partnerships; requested by CSSC	San Jose State University	Completed October 2009

Status of Seismic Safety Commission Research and Assistance Fund

Completed in 2008

Project Name	Description	CSSC Funds	Amount Leveraged (Partner Contributions)	Contractor	Status
The Los Angeles Earthquake: Get Ready	Disseminated public information and outreach regarding earthquake preparedness activities for the Shakeout in collaboration with other expert advisors and project partners. Served as a prototype for the first Statewide Shakeout held on 10/15/09.	\$250,000	USGS, SCEC, CEA, And 31 other partners \$1,510,000	The Art Center College of Design	Completed December 2008
	TOTAL	\$2,578,194	\$5,474,424		

Leveraged Funding Ratio: 2.13 to 1

**Status of Seismic Safety Commission Research and Assistance Fund
Commission Overhead**

Overhead Taken	DATE
\$183,000 (cumulative of overhead available)	Budget 2012/13