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GOVERNOR'S OFFICE
OF EMERGENCY SERVICES



**ALFRED E. ALQUIST
SEISMIC SAFETY COMMISSION MEETING**

In-Person and Zoom Meeting
August 31, 2023

I. Call to Order

The meeting was called to order by Cindy Silva, Chair, at 10:02am. Tanya Black, Administrative Processes Manager, conducted the roll call.

Present:

Cindy Silva, Chair
Representative Sean Connelly for Freddie Rodriguez, Vice Chair
Representative Astighik Hakobyan for Anthony Portantino
Ida Clair
Alegria De La Cruz
Debra Garnes
Joone Kim-Lopez
Representative Irina Brauzman for Mia Marvelli
Kevin McGowan
Representative Lori Nezhura for Nancy Ward (Arrived at 10:17am)
Vincent Wells

Absent:

Dr. H. Kit Miyamoto
David Rabbitt

II. Chair's Remarks

Chair Silva thanked the members and welcomed them to the Thursday, August 31, 2023, meeting of the California Seismic Safety Commission (SSC).

**III. Ad-Hoc Committee Recommendation - Ferndale & Türkiye Project
Speaker - Annde Ewertsen, SSC Executive Director**

SSC Executive Director, Annde Ewertsen, spoke about the Ad-Hoc Committee Recommendation for the Ferndale and Türkiye Project. This agenda item approves the basic plan for moving forward. Since then, the



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committee has worked with consultants on the submission of proposals and developed a questionnaire for local and state officials.

SSC Executive Director Ewertsen provided a summary of the project components and requested the Commissioner's vote on approving that plan.

A motion was made by Commissioner Garnes and seconded by Commissioner De La Cruz to approve the Ad-Hoc Committee's recommendation for the 3-part Ferndale & Türkiye Project.

Motion passed unanimously.

IV. PEER Proposal: Regional Scale Consequence Assessment of Earthquake Sequence Scenarios in California

Speaker - Khalid M. Mosalam, Ph.D., Taisei Professor of Civil Engineering, University of CA, Berkeley, Director, Pacific Earthquake Engineering Research (PEER)

Chair Silva introduced Dr. Mosalam, Taisei Professor of Civil Engineering, University of CA, Berkeley, and Dr. Selim Gunay, visiting scholar and consultant of PEER.

Dr. Mosalam gave a brief overview of PEER and its relation to the University California, Berkeley. Dr. Mosalam provided details of the proposal stating the proposal is a Regional Scale Consequence Assessment of Earthquake Sequence Scenarios in California. The proposal stems from the recent Iran and Taiwan events in the previous year, as well as the 2023 sequence of earthquakes in Türkiye.

Dr. Mosalam stated the study aims to quantify, on a regional scale, the consequences of two earthquake sequence scenarios. One would take place in the San Francisco Bay Area (SFBA). The other would take place in the Los Angeles Metropolitan Area (LAMA).

Discussion:



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Representative Nezhura asked a question surrounding the study's discussion of similarities amongst Türkiye, California, and the various earthquakes listed within the presentation and asked about the possibility of the research showing differences. Would the differences between what happened in Türkiye and what could happen in California be highlighted?

Dr. Mosalam reaffirmed that the research indicates that an earthquake sequence could happen in California as with Ferndale which was followed by Rio Dell just 12 days later. He discussed the possibility of the occurrence of a series, which also prompted the creation of the study. He also highlighted California's unique features compared to other parts of the world and stated that these differences should be highlighted within the study also.

Chair Silva asked questions about start date and timelines which were clarified by Dr. Mosalam.

Commissioner Kim-Lopez asked questions of how cities in Northern and Southern California would be chosen and questions surrounding critical wastewater infrastructure contained underground. In addition, how this would be considered within the study in terms of casualties, economic impact, etc.

Dr. Mosalam stated that the selection of the cities would stem from the level one and level two examinations.

Dr. Mosalam shared that PEER has a large project funded by the California Energy Commission (CEC) that is used to develop OpenSRA to look at critical value input structure, such as pipelines.

No other public comments were made either in-person or on Zoom.

A motion was made by Commissioner De La Cruz and seconded by Representative Nezhura to approve the PEER proposal of the Regional Scale Consequence Assessment of Earthquake Sequence Scenarios in California at the cost of \$76,286.

Motion passed unanimously.

V. IN-CORE Proposal: A Paradigm Shift in Metric Evolution to Show the True Cost



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**of an Earthquake and Recommendations on Creating Resilient Communities.
Speaker - John W. van de Lindt, Ph.D. F.SEI, F. ASCE**

Chair Silva introduced John W. van de Lindt, Ph.D. F.SEI, F. ASCE.

Dr. van de Lindt stated that the proposal would focus on a paradigm shift in metric evolution to show the true cost of an earthquake and subsequent recommendations on creating more resilient communities.

The IN-CORE model works by beginning with a building portfolio, water networks, power networks, as well as inter-dependency arrays.

Once the initial community description is completed, it would be possible to look at it as it is subjected to an earthquake. The purpose of the IN-CORE proposal is to look at alternative action, to look at what would happen if policies were changed, to enhance community resiliencies, and to inform planning.

The proposed analysis would be to model the California communities of Rio Dell, population of 3,356, and Crockett, population of 3,405.

The budget requested was \$98,750 and was broken down into 4 subcategories including personnel time, developer/NCSA, CGE development, and indirect costs.

Discussion:

Commissioner De La Cruz asked how the IN-CORE model would adjust the challenges that the Census has in terms of undocumented communities and the "double challenge" created by many of those same people being ineligible for federal disaster relief.

Dr. van de Lindt stated there is a team of sociologists that worked with them during these projections and the Census. While they don't have a "perfect" answer, if they can understand a population then there can be adjustments made. In other words, when buildings are counted and populations are pulled and the numbers don't match, there would be budget adjustments made to calculate for these discrepancies.

There were no public questions or comments.



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A motion was made by Commissioner Garnes and seconded by Representative Nezhura for the approval of the IN-CORE Proposal for a Paradigm Shift in the Metric Evolution to Show the True Cost of an Earthquake and to quantify a roadmap for creating resilient communities.

Motion passed unanimously.

VI. Public Comment

There was no public comment.

VII. Adjournment

Chair Silva thanked everyone for attending the meeting before turning it back over to the Executive Director Ewertsen for updates.

SSC Executive Director Ewertsen stated that the contracting process would begin and thanked commissioners for the approval of the two proposals. The other portion of the project, the Ferndale interviews, could begin once the questions were approved by the commissioners on the Ad-Hoc Committee.

The meeting was adjourned by Chair Silva at 11:11 am.