

State of California  
Alfred E. Alquist Seismic Safety Commission

Memo

To: Commissioners  
Mr. Richard J. McCarthy, Executive Director

From: Robert Anderson, P.G., C.E.G.  
Seismic Safety Commission  
1755 Creekside Oaks Drive, Suite 100  
Sacramento, CA 95833  
(916) 263-5506

Date: June 29, 2012

Subject: Letter of Interest and Support for the Development of "Tsunami  
Planning and Decision Support Capability for Navy Assets"

Background:

The United States Navy is planning to develop tools to help decision makers to reduce tsunami risk to San Diego Bay. These products and related structural analysis of selected classes of harbor structures may be transferrable to other Navy facilities and civilian port and harbor structures. Attachment A from the Navy inviting the Commission to collaborate describes the project. Attachment B expresses Commission interest in participating in the Navy's proposed project. No funding amount is being considered at this time.

**Recommendation:** The Executive Director is seeking Commission authorization to sign the attached letter of interest to the Navy. Commissioners are invited to ask questions and edit or modify the letter of interest.





SPAWAR Systems Center Pacific  
53560 Hull St.  
San Diego, CA 92152

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June 26, 2012

Richard J. McCarthy, Executive Director  
California Seismic Safety Commission  
SEISMIC SAFETY COMMISSION  
1755 Creekside Oaks Drive, Suite 100  
Sacramento, California 95833-3637

Dear Dick,

We are proposing an internal research project at SSC-PAC to conduct research and development toward a Tsunami Planning and Decision Support Capability for Navy Assets in coastal harbors with an initial focus on San Diego Bay. This proposal is being developed based on initial requirements defined by Third Fleet, and also to provide a template for application in other mission areas. In support of these requirements, the proposal includes the development and validation of a hydrodynamic model to simulate harbor response from potential tsunami waves attacking San Diego Bay. Another important element of the proposal is developing a better understanding the structural response of harbor facilities and ships to the high currents and rapidly changing water levels associated with these events. Our intent is to integrate the harbor response with this structural analysis to develop a decision tool that will guide planning for how they Navy and other bay tenants can best respond to safely protect these assets. Based on our meeting on Jun 21, we would highly value your collaborate with us on this proposal by teaming on appropriate research studies on the structural response aspects of the project. We believe this collaboration would significantly strengthen the project, leverage both of our programs, and provide a potential for broader application to the user community in San Diego Bay.

Thank you for your interest and support. We are looking forward to our joint collaboration for this proposal.

Bart Chadwick

Sincerely,

A handwritten signature in black ink that reads "Dr. Bart Chadwick".

Dr. Bart Chadwick  
Head, Environmental Sciences