



Nuclear Regulatory Commission  
Exhibit # - NRC037-00-BD01  
Docket # - 07007016  
Identified : 7/11/2012

NRC037

Admitted: 7/11/2012  
Rejected:

Withdrawn:  
Stricken:

NOAA Technical Memorandum OAR PMEL-136

## SCIENTIFIC AND TECHNICAL ISSUES IN TSUNAMI HAZARD ASSESSMENT OF NUCLEAR POWER PLANT SITES

Science Review Working Group

Pacific Marine Environmental Laboratory  
Seattle, WA

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Seattle, WA  
May 2007



**UNITED STATES  
DEPARTMENT OF COMMERCE**

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Secretary**

**NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION**

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This report should be cited as:

González, F.I., E. Bernard, P. Dunbar, E. Geist, B. Jaffe, U. Kânoğlu, J. Locat, H. Mofjeld, A. Moore, C. Synolakis, V. Titov, and R. Weiss (Science Review Working Group) (2007): Scientific and technical issues in tsunami hazard assessment of nuclear power plant sites. NOAA Tech. Memo. OAR PMEL-136, Pacific Marine Environmental Laboratory, Seattle, WA, 125 pp. + appendices on CD.

Contribution No. 3031 from NOAA/Pacific Marine Environmental Laboratory

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Also available from the National Technical Information Service (NTIS)  
(<http://www.ntis.gov>)

**Table 2-1:** U.S. tsunami events and runup measurements by State, territory and region, deaths, and dollar damage from the NOAA/NGDC tsunami database from 1690 to the present.

State/Territory	No. events with any observed runup	No. events with measured max runup 0.01 – 0.5 m	No. events with measured max runup 0.5 – 1.0 m	No. events with measured max runup 1.0 – 3.0 m	No. events with measured max runup 3.0 – 5.0 m	No. events with measured max runup >5.0 m	Total no. observations	No. deaths	Millions dollars damage
<b>U.S. Atlantic East Coast</b>									
Maine	1						3		
New Hampshire	1						1		
Massachusetts	1						2		
Rhode Island	2	1					3		
Connecticut	1						1		
New York	2	1					7		
New Jersey	6	2	1				8		
Pennsylvania									
Delaware									
Maryland	1	1					1		
Virginia									
North Carolina	2	1					2		
South Carolina									
Georgia									
Florida	4	1					5		
<b>Totals</b>	21	7	1	0	0	0	33	0	0
<b>U.S. Gulf Coast</b>									
Florida									
Alabama									
Mississippi									
Louisiana									
Texas	1						1		
<b>Totals</b>	1	0	0	0	0	0	1	0	0
<b>Puerto Rico and Virgin Islands</b>									
Puerto Rico	9	3	2			1	33	142	4
Virgin Islands	7	1	1	1	1	1	15	30	
<b>Totals</b>	16	4	3	3	1	2	48	172	4

Table 2-1: (continued).

State/Territory	No. events with any observed runup	No. events with measured max runup 0.01 – 0.5 m	No. events with measured max runup 0.5 – 1.0 m	No. events with measured max runup 1.0 – 3.0 m	No. events with measured max runup 3.0 – 5.0 m	No. events with measured max runup >5.0 m	Total no. observations	No. deaths	Millions dollars damage
Alaska	79	46	3	6	1	15	357	222	122
<b>U.S. West Coast</b>									
Washington*	18	12	1	2	1		68		2
Oregon*	21	15	1	2	2		76	5	1
California*	74	46	8	9	3	2	423	19	19
<b>W Coast Totals</b>	113	73	10	13	6	2	567	24	22
Hawaii	112	74	7	11	9	10	1580	328	59
<b>U.S. Western Pacific island territories</b>									
Guam	16	10	1	1		1	24	1	
Northern Marianas	1						1		
American Samoa	53	37	4	3			58		
<b>W Pacific Totals</b>	70	47	5	4	0	1	83	1	0
<b>American Totals</b>	412	251	29	37	17	30	2669	747	207

\*Include Cascadia tsunami deposit sites