



LAWRENCE LIVERMORE LABORATORY

An Equal Opportunity Employer

SM80-176

July 24, 1980

Darrell G. Eisenhut
Division of Operating Reactors
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington D.C. 20555

Subject: Monthly Management Letter No. 9/10
for months of June and July 1980
NRC FIN A0233
Systematic Evaluation Program (Seismic)

Program Objective and Description

Provide an evaluation of the capability of selected SEP facilities to resist earthquake induced forces. This will include an evaluation of the integrity of the reactor coolant pressure boundary and the capability of essential structures, systems and components required to safely shutdown the reactor and maintain it in a safe shutdown condition during and after a seismic event, as well as other systems required to mitigate the consequences of such an event.

Progress June 1, 1980 through July 31, 1980

SSRT Reviews

Work is continuing to develop and review guidelines for SEP Soil-Structure Interaction. Three drafts have been received from Bill Hall. We have completed our review of the first draft and supplied comments to Bill in our July 10, 1980 letter. We will await a draft which considers our comments before conducting further review.

We are planning an SSK² meeting in the San Francisco area in September to review the Ginna analysis and draft report. We also plan to have results of the PARET/DTOR Program presented to the SSRT members at this meeting.

Staff Reviews

Ginna

We have transmitted Chapter 6 on equipment to Tom Cheng on June 5, 1980.

X003
s
1/1

8008060 362

A paper entitled, "Seismic Review of the R. E. Ginna Nuclear Power Plant as part of the Systematic Evaluation Program for NRC" for presentation at the ASCE Specialty Conference on Civil Engineering and Nuclear Power, September 15-17, 1980, in Knoxville, Tennessee has been completed. H. A. Levin and T. M. Cheng are both co-authors.

Palisades

At the meeting of June 18, 1980 NRC's comments on the draft Palisades report were discussed. These are being incorporated into the final version. No further soil-structure interaction calculations are contemplated at this time and we are proceeding with the final version of the report.

We have received Chapter 6 and have transmitted a copy to H. Levin/T. Cheng for review on July 30, 1980.

Oyster Creek

Editing is continuing on the overall draft report to be submitted to NRC.

Millstone 1

The analysis on Millstone 1 is continuing. The reactor building model is complete. Structural weights and section properties have been verified. The model for the radwaste building is complete and analyses to produce in-structure spectra are underway. We are awaiting information on the turbine building equipment masses and locations.

San Onofre 1

We have completed a review of the SCE April 11, 1980 submittal. Our review comments and recommendations for future work were transmitted to NRC on June 13, 1980.

Open Items

We have never received copies of the Dresden II NUREG that we prepared.

We are waiting for an NRC decision on whether to publish the Phase I Docket Reviews as informal reports.

We are waiting for guidelines on Site Specific Spectra and their use in the reviews.

General

An estimated schedule for Group I plants is included in Figure 1. This is our best estimate of delivery dates as of August 1, 1980. As more information is received or delayed, corresponding changes to the schedule will be made.

Funding Level and Dollars Obligated

FY79	c/o	\$155K	(\$55K carryover plus \$100K added September, 1979)
FY80		\$500K	
		\$155K	(Transfer to Site Specific Spectra)
Total Available		\$500K	
Costs		\$480K	Oct.-July (includes sub-contractors)

List of Subcontractors and Consultants

<u>Subcontractors</u>	<u>FY80 Contract Amount</u>	<u>Spent to Date</u>
EG&G	\$110K	\$105K
EDAC	\$ 50K	\$ 50K
SMA	\$ 50K	\$ 30K
Woodward-Clyde	\$100K	\$100K
<u>Consultants</u>		
NCT Engineering	\$ 15K	\$ 12K
M & P Singh	5K	\$ OK
	<u>\$330K</u>	<u>\$297K</u>

During this period we learned that John Stevenson would be leaving Woodward-Clyde and joining Structural Mechanics Associates (SMA) effective August 1, 1980. We will make the necessary contract changes.

Cost projections indicate we will be \$100K short during FY80. Please send additional funds as soon as possible.

Figure 1

SEP Schedule/LLL Analyses

Group 1 Plants
(Estimates as of 8/1/80)

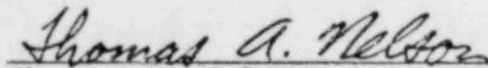
Facility	Request for Additional Information	Work Plan Developed	SSRT Meeting	Floor Spectra Delivered	Preliminary Draft to NRC	Chapter 6 Draft to NRC	Drafts Reports Complete
Ginna	2/18/80		?	11/29/79	3/1/80	6/5/80	8/15/80
Palisades	2/18/80		12/7/79 2/21/80	1/15/80	4/1/80	7/30/80	9/15/80
Oyster Creek	2/18/80	8/2/79 10/10/79 Revised	12/7/79 2/21/80	2/21/80	5/1/80	8/1/80	9/15/80*
Millstone 1	2/18/80 3/15/80 7/1/80 7/30/80	4/1/80	?		10/1/80*	10/15/80*	12/1/80*

*Contingent upon immediate receipt of additional funds from NRC.

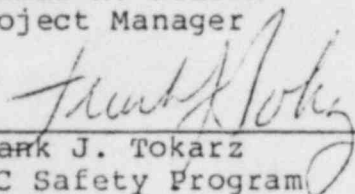
Meetings Attended

June 4, 1980: F. J. Tokarz, R. P. Kennedy, and J. D. Stevenson attended the SSRT meeting held in Washington D.C. in conjunction with the ACRS meeting.

June 18, 1980: R. C. Murray, T. A. Nelson, C. Y. Liaw, S.M. Ma, D. A. Wesley, and N.C. Tsai met with Tom Cheng, NRC, to discuss project status and suggested changes in Oyster Creek and Palisades Soil-Structure interaction calculations.



Thomas A. Nelson
Project Manager



Frank J. Tokarz
NRC Safety Program

RCM/TAN/FJT:jm

cc: R. H. Vollmer	B. R. Bowman	P. D. Smith
D. Crutchfield	D. L. Bernreuter	L. L. Cleland
H. A. Levin	W. Johnson	R. C. Murray
C. A. Beckwith	F. J. Tokarz	T. A. Nelson
D. Allison	R. D. Bailey ^{B²}	G. E. Cummings
W. J. Gallagher	R. T. Langland	
E. F. Redden		
T. M. Cheng		