



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

August 19, 1992

Docket No. 50-206

Mr. Harold B. Ray
Senior Vice President
Southern California Edison Company
Irvine Operations Centre
23 Parker Street
Irvine, California 92718

Dear Mr. Ray:

SUBJECT: SAFETY EVALUATIONS FOR THE TORNADO WIND AND MISSILE LOADINGS
PROBABILISTIC RISKS FOR THE SAN ONOFRE NUCLEAR GENERATING STATION,
UNIT NO. 1 (TAC NO. M63078)

In its letter dated October 10, 1986, Southern California Edison (SCE) proposed modifications to upgrade several San Onofre, Unit 1 systems to ensure safe shutdown following the impact of a local tornado. In subsequent letters dated October 2, 1989, and August 31, 1990, you indicated that the proposed safety modifications were of low safety significance and you submitted a risk analyses to demonstrate that upgrading the San Onofre, Unit 1 plant systems against tornado missile impacts would not be necessary.

An evaluation of your risk analysis was performed by Argonne National Laboratory as contractor for the NRC. The contractor's evaluation was summarized in a report that was submitted to the NRC on July 1, 1992.

On the basis of the contractor's evaluation, the staff concludes that it is not cost effective to upgrade San Onofre, Unit 1 systems for protection against tornado winds or missiles and that SCE's determination not to modify the plant systems to accommodate tornado hazards is acceptable. Our Safety Evaluation is enclosed.

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Mr. Harold B. Ray

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August 19, 1992

A reexamination of this issue will be required if operation of the Unit 1 plant is extended beyond the presently licensed life. If you have a questions, please contact me at (301) 504-1381.

Sincerely,

Original signed by:

Theodore R. Quay, Director

for
George Kalman, Senior Project Manager
Project Directorate V
Division of Reactor Projects III/IV/V
Office of Nuclear Regulation

Enclosure:
As stated

cc w/enclosure:
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BBoger

MVirgilio

TQuay

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GKalman

JBradfute

OGC, 15B18

ACRS(10), P315

PDV Plant File

RZimmerman, RV

SWeiss, 11B20

EHylton, 11B20

OFC	PDV/LA <i>for</i>	PDV/PE <i>for</i>	PDV/PM <i>for</i>	BC/ESBB	BC/SBIB <i>for</i>	PDV/D <i>for</i>
NAME	DFoster	JBradfute	GKalman	GBagchi	CMcCracken	TQuay
DATE	7/30/92	30 Jul/92	30 Jul/92	8/8/92	8/18/92	8/19/92

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Mr. Harold B. Ray

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A reexamination of this issue will be required if operation of the Unit 1 plant is extended beyond the presently licensed life. If you have a questions, please contact me at (301) 504-1381.

Sincerely,

George R. Kalman for

George Kalman, Senior Project Manager
Project Directorate V
Division of Reactor Projects III/IV/V
Office of Nuclear Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

Mr. Harold B. Ray
Southern California Edison Company

San Onofre Nuclear Generating
Station, Unit No. 1

cc:

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