

May 10, 1982

Docket No. 50-206
LS05-82-05-017

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Mr. R. Dietch, Vice President
Nuclear Engineering and Operations
Southern California Edison Company
2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770

DEAR Mr. Dietch:

SUBJECT: UPGRADED SRO AND RO TRAINING AND TRAINING FOR MITIGATING CORE
DAMAGE - REQUEST FOR ADDITIONAL INFORMATION

In our review of NUREG-0737 Item Nos. I.A.2.1 and II.B.4 for San Onofre Unit No. 1, we have identified additional information which we will need in order to complete our review. Science Applications, Inc. under contract to the NRC has developed the attached request for additional information. We requested that you respond within 30 days of receipt of this letter. Please send a copy of your submittal directly to Dr. R. E. Liner, Science Applications, Inc., 1710 Goodridge Drive, McLean, Virginia 22102. This request for information is in accordance with the OMB Clearance No. 3150-0065, which expires May 31, 1982.

Sincerely,

Original signed by

Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing



Enclosure:
As stated

cc w/enclosure:
See next page

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SURNAME	WPaulson:cc	DWigginton	DCrutchfield	GLamas			
DATE	5-10-82	5/10/82	5/10/82	5/10/82			

Mr. R. Dietch

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May 10, 1982

cc

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San Clemente, California 92672

Chairman
Board of Supervisors
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ATTN: Chief, Environmental
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Radiological Health Section
714 P Street, Room 498
Sacramento, California 95814

U. S. Environmental Protection Agency
Region IX Office
ATTN: Regional Radiation Representative
215 Fremont Street
San Francisco, California 94111

Robert H. Engelken, Regional Administrator
Nuclear Regulatory Commission, Region V
1450 Maria Lane
Walnut Creek, California 94596

REQUEST FOR ADDITIONAL INFORMATION

SAN ONOFRE UNIT NO. 1

The U.S. Nuclear Regulatory Commission and its technical assistance contractor, Science Applications, Inc. (SAI), are performing a review to ascertain the acceptability of your response to certain requirements contained in post-TMI Action Items set forth in NUREG-0660 and NUREG-0737:

I.A.2.1 Immediate Upgrading of Reactor Operator and Senior Reactor Operator Training and Qualifications

II.B.4 Training for Mitigating Core Damage

Specifically, this review addresses the following items from Enclosure 1 of Harold Denton's letter of March 28, 1980, contained in NUREG-0737: Item A.2.c which addresses operator training requirements, item A.2.e which addresses instructor requalification, and Section C which addresses operator requalification. Some of these items are further elaborated in Enclosures 2, 3, and 4 of the Denton letter and in post-TMI Action Item II.B.4 (also in NUREG-0737).

Our review is presently based on your submittal of July 31, 1980, which includes the following:

1. Letter dated July 31, 1980, H. L. Ottoson to Paul F. Collins
2. Operator Requalification Program San Onofre Nuclear Generating Station Unit 1 (Rev. 2 dated July 1980)
3. Letter dated March 24, 1982, R. W. Krieger to D. M. Crutchfield

We assume these submittals reflect your current requalification program, but we have no information on your training program. Please submit your Senior Reactor Operator/Reactor Operator training programs. In particular, please address the following questions:

A. Training Program

1. Does your initial training program for Reactor Operator and Senior Reactor Operator cover the subjects of heat transfer, fluid flow, and thermodynamics to the level of detail spelled out in enclosure 2 of the Denton letter? Please send a course outline if available.

2. Does your initial training program for Reactor Operator and Senior Reactor Operator cover the subject of using installed plant systems to control or mitigate an accident in which the core is severely damaged? If it does, is the coverage to the level of detail spelled out in enclosure 3 of Denton's letter? Please send course outlines if available.
3. Are the lectures and quizzes on the subject of accident mitigation given to shift technical advisors and operating personnel from the plant manager through the operations chain to the licensed operators? If they are, would you please provide the titles of the people who are trained and an organization chart which illustrates their position in the operations chain?
4. Do the training program elements which involve heat transfer, fluid flow, thermodynamics and accident mitigation involve 80 contact hours in each program? (A contact hour of instruction is a one-hour period in which the course instructor is present or available for instructing or assisting students; lectures, seminars, discussions, problem-solving sessions, and examinations are considered contact periods under this definition.)
5. Is there an increased emphasis on reactor and plant transients in the reactor operator and senior reactor operator training program as required by item A.2.C.3 of enclosure 1 of Denton's March 28, 1980, letter? If there is, does this training deal with both normal transients and abnormal (accident) transients?

In addition, please clarify your requalification program by providing answers to the following:

B. Requalification Program

1. The requalification program for reactor operators (3.2.1) has lectures which appear to cover the subjects of heat transfer, fluid flow and thermodynamics as called out in enclosure 1 of Denton's March 28, 1980, letter. Do these lectures in fact cover this material and is the coverage to the level of detail spelled out in enclosure 2 of the Denton letter? Please send a course outline if it is different from that used in the training program.
2. The reactor operator and senior reactor operator requalification program (3.2.1) has a lecture which appears to address the subject of using installed plant systems to

control or mitigate an accident in which the core is severely damaged. Does this lecture address the topic and does it cover the subject to the level of detail spelled out in enclosure 3 of Denton's letter? Please send a course outline if it is different from that used in the training program.

3. The requalification program, Section 3.1.5 item (g), identifies as "Loss of Salt water cooling," is this the same as "Loss of Service water cooling?"
4. Please answer question 3 of Section A with respect to your requalification program.
5. Please answer question 4 of Section A with respect to your requalification program.