

AUG 27 1984

Docket No.: 50-362

Mr. Kenneth P. Baskin
Vice President
Southern Carolina Edison Company
2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770

Mr. James C. Holcombe
Vice President - Power Supply
San Diego Gas & Electric Company
101 Ash Street
Post Office Box 1831
San Diego, California 92112

Gentlemen:

Subject: Safety Evaluation of 48 Hour AFW Pump Test, San Onofre Unit 3

We have reviewed the 48 hour AFW pump test conducted at San Onofre 3 and reported in your letter dated September 9, 1983. This pump test was required in order to comply with the recommendations of TMI Action Plan Item II.E.1.1 and was made a condition (2C (17) f) of the San Onofre 3 operating license. We find that the test results comply with the recommendations of II.E.1.1 and, therefore, are acceptable. The bases for this conclusion are contained in the enclosed Safety Evaluation Report. This completes our review of this issue.

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George W. Knighton, Chief
Licensing Branch No. 3
Division of Licensing

Enclosure: As stated

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

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A handwritten signature in cursive script, appearing to read "Victor" followed by a surname that is partially obscured but likely "Knighton".

George W. Knighton, Chief
Licensing Branch No. 3
Division of Licensing

Enclosure: As stated

cc: See next page

San Onofre

Mr. Kenneth P. Baskin
Vice President
Southern California Edison Company
2244 Walnut Grove Avenue
P. O. Box 800
Rosemead, California 91770

Mr. James C. Holcombe
Vice President - Power Supply
San Diego Gas & Electric Company
101 Ash Street
Post Office Box 1831
San Diego, California 92112

Charles R. Kocher, Esq.
James A. Beoletto, Esq.
Southern California Edison Company
2244 Walnut Grove Avenue
P. O. Box 800
Rosemead, California 91770

Orrick, Herrington & Sutcliffe
ATTN: David R. Pigott, Esq.
600 Montgomery Street
San Francisco, California 94111

Alan R. Watts, Esq.
Rourke & Woodruff
Suite 1020
1055 North Main Street
Santa Ana, California, 92701

Mr. V. C. Hall
Combustion Engineering, Inc.
1000 Prospect Hill Road
Windsor, Connecticut 06095

Mr. S. McClusky
Bechtel Power Corporation
P. O. Box 60860, Terminal Annex
Los Angeles, California 90060

Mr. C. B. Brinkman
Combustion Engineering, Inc.
7910 Woodmont Avenue
Bethesda, Maryland 20814

Mr. Dennis F. Kirsh
U.S. Nuclear Regulatory Commission - Region V
1450 Maria Lane, Suite 210
Walnut Creek, California 94596

Mr. Mark Medford
Southern California Edison Company
2244 Walnut Grove Avenue
P. O. Box 800
Rosemead, California 91770

Dr. L. Bernath
Manager, Nuclear Department
San Diego Gas & Electric Company
P. O. Box 1831
San Diego, California 92112

Richard J. Wharton, Esq.
University of San Diego School of
Law
Environmental Law Clinic
San Diego, California 92110

Charles E. McClung, Jr., Esq.
Attorney at Law
24012 Calle de la Plaza/Suite 330
Laguna Hills, California 92653

Region Administrator-Region V/NRC
1450 Maria Lan/Suite 210
Walnut Creek, California 92672

Resident Inspector, San Onofre NPS
c/o U. S. NRC
Post Office Box 4329
San Clemente, California 92672

SAFETY EVALUATION REPORT
SONGS UNIT 3 TAC # 51665

TMI Task Action Plan Item II.E.1.1 recommends that all operating plant licensees conduct a 48 hour endurance test for all AFW pumps; this requirement was made a License Condition (2.c (17) f) of the San Onofre Unit 3 Operating License.

The licensee reported the results of the test in a letter dated September 9, 1983. The acceptance criteria for these tests were:

1. Maximum bearing temperatures - 210°F
2. Vibration levels, maximum -
 - a. Pump, 1.0 mil
 - b. Pumpdriver, 1.5 mils
3. AFW pump room ambient conditions, maximum -
 - a. Temperature, 300°F
 - b. Humidity, 100%

The results of the tests show the following values during the test series: (The two motor driven pumps are numbered P-141 and P-504; the number of the turbine driven pump is P-140).

1. Maximum bearing temperature - Pump P-504, motor (maximum values only are provided) inboard bearing 189°F
2. Maximum vibration -
 - a. Pump
 - Pump P-141, 0.74 mil
 - b. Driver
 - Motor, Pump P-504, 0.56 mil

3. Room Conditions, max.
 - a. Temperature, 87⁰F, P-140 pump test
 - b. Humidity, 90%, P-141 pump test

All pumps ran at an approximate speed of 3600 rpm, and a volumetric flow rate of 100 gpm, on recirculation flow, i.e., water taken from and returned directly to the condensate storage tank without introducing any to the steam generators. The AFW pump head/flow characteristics are in agreement with previous test results.

Based on a comparison of the above maximum values to the acceptance criteria, we find the 48 hour test results acceptable.