

DEC 7 1982

Docket No.: 50-361

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Mr. Gary D. Cotton
Mr. Louis Bernath
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Gentlemen:

Subject: Issuance of Amendment No. 11 to Facility Operating License NPF-10
San Onofre Nuclear Generating Station, Unit 2

The Nuclear Regulatory Commission has issued Amendment No. 11 to Facility Operating License NPF-10 for the San Onofre Nuclear Station, Unit 2, located in San Diego County, California.

This amendment is in response to your letter dated December 3, 1982. The amendment modifies the technical specifications applicable to turbine overspeed protection to allow steam flow in low pressure steam leads in which an inoperative reheat intercept valve is located, and to allow immediate return to power in the event of an inadvertant turbine trip. Telephone approval was given to Southern California Edison Company on December 6, 1982, authorizing the implementation of the proposed change.

A copy of the related safety evaluation supporting Amendment No. 11 to Facility Operating License NPF-10 is enclosed. Also enclosed is a copy of a related notice which has been forwarded to the Office of the Federal Register for publication.

Sincerely,

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

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Enclosures:

1. Amendment No. 11
2. Safety Evaluation
3. Federal Register Notice

cc w/enclosures:
See next page

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SAN ONOFRE AMENDMENT NO. 11

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cc: California Department of Health
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Radiological Health Section
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Sacramento, California 95814

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San Diego County
San Diego, California 92412

Mayor, City of San Clemente
San Clemente, California 92672

U. S. Environmental Protection Agency
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Energy Resources Conservation &
Development Commission
1111 Howe Avenue
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California State Library
Government Publications Section
Library and Courts Building
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ATTN: Ms. Mary Schell

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SOUTHERN CALIFORNIA EDISON COMPANY

SAN DIEGO GAS AND ELECTRIC COMPANY

THE CITY OF RIVERSIDE, CALIFORNIA

THE CITY OF ANAHEIM, CALIFORNIA

DOCKET NO. 50-361

SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 11
License No. NPF-10

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment for the San Onofre Nuclear Generating Station, Unit 2 (the facility) filed by the Southern California Edison Company on behalf of itself and San Diego Gas and Electric Company, The City of Riverside and The City of Anaheim, California (licensees) complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations as set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I;
 - D. The issuance of this license amendment will not be inimical to the common defense and security or to the health and safety of the public;
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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- 2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C(2) of Facility Operating License No. NPF-10 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 11, are hereby incorporated in the license. SCE shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

- 3. This license amendment is effective as of December 6, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

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

Date of Issuance: DEC 7 1982

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ATTACHMENT TO LICENSE AMENDMENT NO. 11

FACILITY OPERATING LICENSE NO. NPF-10

DOCKET NO. 50-361

Replace the following pages of the Appendix A Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

Amendment Page

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3/4 3-76

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INSTRUMENTATION

3/4.3.4 TURBINE OVERSPEED PROTECTION

LIMITING CONDITION FOR OPERATION

3.3.4 At least one turbine overspeed protection system shall be OPERABLE.

APPLICABILITY: MODES 1, 2* and 3*.

ACTION:

- a. With one stop valve or one control valve per high pressure turbine steam lead inoperable and/or with one reheat stop valve or one reheat intercept valve per low pressure turbine steam lead inoperable, restore the inoperable valve(s) to OPERABLE status within 72 hours, or close at least one valve in the affected steam lead** or isolate the turbine from the steam supply within the next 6 hours.
- b. With the above required turbine overspeed protection system otherwise inoperable, within 6 hours isolate the turbine from the steam supply.

SURVEILLANCE REQUIREMENTS

4.3.4 The above required turbine overspeed protection system shall be demonstrated OPERABLE:

- a. At least once per 7 days by cycling each of the following valves through at least one complete cycle from the running position.
 1. Four high pressure turbine stop valves.
 2. Four high pressure turbine control valves.
 3. Six low pressure turbine reheat stop valves.
 4. Six low pressure turbine reheat intercept valves.
- b. At least once per 31 days by direct observation of the movement of each of the above valves through one complete cycle from the running position.
- c. At least once per 18 months by performance of a CHANNEL CALIBRATION on the turbine overspeed protection systems.
- d. At least once per 40 months by disassembling at least one of each of the above valves and performing a visual and surface inspection of valve seats, disks and stems and verifying no unacceptable flaws or corrosion.

* With any main steam line isolation valve and/or any main steam line isolation valve bypass valve not fully closed.

INSTRUMENTATION

SURVEILLANCE REQUIREMENTS (Continued)

**For performance of surveillance testing of the valves in the unaffected low pressure turbine steam lead, the valve or valves closed in an affected low pressure turbine steam lead may be re-opened following successful completion of surveillance testing of that valve in accordance with 4.3.4.2a. for a period not to exceed one hour. The provisions of Specification 3.0.4 are not applicable to the low pressure turbine valves. This license amendment is in effect during the time interval of December 6, 1982 until the completion of 50% power startup testing or until January 31, 1983, whichever occurs first.

SAFETY EVALUATION
AMENDMENT NO. 11 TO NPF-10
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2
DOCKET NO. 50-361

Introduction

By letter dated Friday, December 3, 1982, Southern California Edison Company, on behalf of itself the other licensees (San Diego Gas and Electric Company, the City of Anaheim and the City of Riverside), requested a revision to Technical Specification 3/4.3.4, Turbine Overspeed Protection. The proposed revision would modify the limiting condition for operation to allow steam flow in low pressure steam leads in which an inoperative reheat intercept valve is located (said steam flow not to exceed one hour duration per weekly surveillance period). Our evaluation of the proposed revision is given below.

Evaluation

During surveillance, it was determined that reheat intercept valves 2200 Q and 2200 T, to LP cylinders 2 and 3, respectively, were inoperative. The valves cannot be fully closed. In accordance with Technical Specifications, reheat stop valves 2200 R and 2200 S were closed, thereby isolating one steam lead, each, to LP cylinders 2 and 3. There are two steam leads to each of three low pressure cylinders. In order to conform to Technical Specifications, the licensees must conduct surveillance on the valves in the unaffected low pressure steam leads; i.e., the valves must be cycled completely (open-close-open) on a weekly basis. If this were to be done under present conditions, it would result in termination of all steam flow to LP cylinders 2 and 3 for a short period of time. The turbine manufacturer has stated that terminating steam flow to an LP cylinder could cause serious damage to the turbine rotor. To avoid this condition, the licensees have requested that the Technical Specifications be revised to allow the affected low pressure steam leads to be reopened during the weekly valve surveillance for a period not to exceed one hour.

The functions of the reheat stop and intercept valves in the low pressure steam leads is to prevent a turbine overspeed with attendant missile generation potential following an electrical load rejection and/or a turbine trip. The licensees have provided results of calculations by the turbine manufacturer which show that turbine speed following a load rejection from current power levels (approximately 50% reactor power) can be safely controlled using the high pressure valves only. Therefore, failure of one or more low pressure valves would not result in unacceptable turbine overspeed.

The staff concurs with the licensees regarding turbine overspeed potential following a load rejection from present power levels. Based on this, the staff agrees that a waiver of the Technical Specifications as detailed below would not represent an unacceptable risk to the public health and safety.

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Procedures for Weekly Surveillance of Reheat Stop and Intercept Valves:

1. For LP Cylinder No. 3
 - a. Cycle valve No. UV 2200 S Open-Closed-Open.
 - b. Cycle valves UV 2200 V and UV 2200 U in the normal sequence.
 - c. With valves UV 2200 V and UV 2200 U open, reclose valve UV 2200 S.
2. For LP Cylinder No. 2
 - a. Cycle valve UV 2200 R Open-Closed-Open.
 - b. Cycle valve UV 2200 N and UV 2200 P in the normal sequence.
 - c. With valves UV 2200 N and UV 2200 P open, reclose valve UV 2200 R.
3. For LP Cylinder No. 1
 - a. Cycle valves in both steam leads in the normal sequence.
4. Valve surveillance should be done for one LP cylinder at a time. No special sequence for LP cylinders is required.
5. These procedures will be in effect only until completion of 50% power testing.
6. In the event of an additional valve malfunction, the Technical Specification requirements must be re-reviewed by the staff.
7. The total time that valves UV 2200 R and UV 2200 S will remain open should not exceed one hour for each weekly surveillance.

Environmental Consideration

We have determined that this amendment does not authorize a change in effluent types or total amount nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that this amendment involves action which is insignificant from the standpoint of environmental impact and pursuant 10 CFR Section 51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

Based upon our evaluation of the proposed changes to the San Onofre, Unit 2 Technical Specifications, we have concluded that: (1) because this amendment does not involve a significant increase in the probability or consequences of accidents previously considered, does not create the possibility of an accident of a type different from any evaluated previously, and does not

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involve a significant decrease in a safety margin, this amendment does not involve a significant safety hazards consideration; (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of public. We, therefore, conclude that the proposed changes are acceptable.

Dated: DEC 7 1982

Handwritten signature: G. L. Chamberlain

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UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-361

SOUTHERN CALIFORNIA EDISON COMPANY, ET AL

NOTICE OF ISSUANCE OF AMENEMENT

FACILITY OPERATING LICENSE NO. NPF-10

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 11 to Facility Operating License No. NPF-10, issued to Southern California Edison Company, San Diego Gas and Electric Company, The City of Riverside, California and The City of Anaheim, California (licensees) for the San Onofre Nuclear Generating Station, Unit 2 (the facility) located in San Diego County, California. This amendment is effective December 6, 1982.

Amendment No. 11 changes the technical specifications applicable to turbine overspeed protection to allow steam flow in low pressure steam leads in which an inoperative reheat intercept valve is located, and to allow immediate return to power in the event of an inadvertant turbine trip.

Issuance of this amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations. The Commission has made appropriate findings as required by the Act and the Commission's regulations in 10 CFR Chapter I, which are set forth in the license amendment.

Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

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The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR 51.5(d)(4) an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) Southern California Edison Company's letter dated December 3, 1982, (2) Amendment No. 11 to Facility Operating License No. NPF-10, and (3) the Commission's related Safety Evaluation.

These items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C., and the San Clemente Library, 242 Avenida Del Mar, San Clemente, California 92672. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 14 day of December, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

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George W. Knighton, Chief
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*W. J. Taylor for
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