JUL 3 0 1982

Docket No.: 50-361

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Vice President
Southern California Edison Company
2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770

Mr. Gary D. Cotton
Mr. Louis Bernath
San Diego Gas & Electric Company
101 Ash Street
Post Office Box 1831
San Diego, California 92112

Gentlemen:

Subject: Issuance of Amendment No. 5 to Facility Operating License NPF-10
San Onofre Nuclear Generating Station, Unit 2

The Nuclear Regulatory Commission has issued Amendment No. 5 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 July 9, 1982. The amendment changes the date for completion of modifications to the control room ventilation system from August 1, 1982 to November 1, 1982, and modifies the associated technical specifications accordingly.

A copy of the related safety evaluation supporting Amendment No. 5 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,

"Original signed by Frank J. Miraglia"

Frank J. Miraglia, Chief
Licensing Branch No. 3
Division of Licensing

N004

Enclosures:
1. Amendment No. 5
2. Safety Evaluation
3. Federal Register Notice

cc w/enclosures:
As stated

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HR

No legal objection

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DATE	7/30/82	7/30/82	7/30/82	7/30/82			

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ATTN: Chief, Environmental Radiation
Control Unit
Radiological Health Section
714 P Street, Room 498
Sacramento, California 95814

Chairman, Board of Supervisors
San Diego County
San Diego, California 92412

Mayor, City of San Clemente
San Clemente, California 92672

U. S. Environmental Protection Agency
ATTN: EIS Coordinator
Region IX Office
215 Freemont Street
San Francisco, California 94111

Director
Energy Facilities Siting Division
Energy Resources Conservation
and Development Commission
111 Howe Avenue
Sacramento, California 95825

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. 5
License No. NPF-10

1. The Nuclear Regulatory Commission (the Commission) has found that:

   A. The application for license 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 attachement to this license amendment, and paragraphs 2.C(2), and 2.C(8), of Facility Operating License No. NPF-10 are hereby amended to read as follows:

(2) Technial Specifications

The Technical Specification contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 5, are hereby incorporated in the license. SCE shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

(8) Control Room Pressurization Capability (Section 6.4, SER, SSER #5)

By November 1, 1982, SCE shall complete the modifications required to achieve a positive pressure of 1/8" water gauge in the control room. Tests shall be performed on the modified system to verify the 1/8" positive pressure.

3. This license amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

"Original signed by Frank J. Miraglia"

Frank J. Miraglia, Chief
Licensing Branch No. 3
Division of Licensing

Date of Issuance: JUL 3 0 1982

HR

We waived before departure January 83

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DATE	07/30/82	07/30/82	07/30/82	07/30/82			

ATTACHMENT TO LICENSE AMENDMENT NO. 5

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. The corresponding overleaf pages are also provided to maintain document completeness.

Overleaf Page	Amendment Page
	3/4 7-13
	3/4 7-14
3/4 7-16	3/4 7-15

3/4.7.5 CONTROL ROOM EMERGENCY AIR CLEANUP SYSTEM

LIMITING CONDITION FOR OPERATION

3.7.5 Two independent control room emergency air cleanup systems shall be OPERABLE.

APPLICABILITY: ALL MODES

ACTION:

MODES 1, 2, 3 and 4:

With one control room emergency air cleanup system inoperable, restore the inoperable system to OPERABLE status within 7 days or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

MODES 5 and 6:

a. With one control room emergency air cleanup system inoperable, restore the inoperable system to OPERABLE status within 7 days or initiate and maintain operation of the remaining OPERABLE control room emergency air cleanup system in the recirculation mode.

b. With both control room emergency air cleanup systems inoperable, or with the OPERABLE control room emergency air cleanup system required to be in the recirculation mode by ACTION (a), not capable of being powered by an OPERABLE emergency power source, suspend all operations involving CORE ALTERATIONS or positive reactivity changes.

c. The provisions of Specification 3.0.3 are not applicable in MODE 6.*

SURVEILLANCE REQUIREMENTS

4.7.5 Each control room emergency air cleanup system shall be demonstrated OPERABLE:

a. At least once per 12 hours by verifying that the control room air temperature is less than or equal to 110°F.

b. At least once per 31 days on a STAGGERED TEST BASIS by initating, from the control room, flow through the HEPA filters and charcoal adsorbers and verifying that the system operates for at least 10 hours with the heaters on.

c. At least once per 18 months or (1) after any structural maintenance on the HEPA filter or charcoal adsorber housings, or (2) following painting, fire or chemical release in any ventilation zone communicating with the system by:

   1. Verifying that with the system operating at a flow rate of 35485 cfm ± 10% for the air conditioning unit, and 1000# cfm ± 10% for the ventilation unit and recirculating through the respective HEPA filters and charcoal adsorbers, leakage through the system diverting valves is less than or equal to 1% air conditioning unit and 1% ventilation unit when the system is tested by admitting cold DOP at the respective intake.

*Specification 3.0.4 not applicable for initial entry into MODE 6.

SURVEILLANCE REQUIREMENTS (Continued)

2. Verifying that the cleanup system satisfies the in-place testing acceptance criteria and uses the test procedures of Regulatory Positions C.5.a, C.5.c and C.5.d of Regulatory Guide 1.52, Revision 2, March 1978, and the system flow rate is 1000# cfm ± 10% for the ventilation unit and 35,485 cfm ± 10% for the air conditioning unit.

3. Verifying within 31 days after removal that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 2, March 1978.

4. Verifying a system flow rate of 1000# cfm ± 10% for the ventilation unit and 35,485 cfm ± 10% for the air conditioning unit during system operation when tested in accordance with ANSI N510-1975.

d. After every 720 hours of charcoal adsorber operation by verifying within 31 days after removal that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 2, March 1978.

e. At least once per 18 months by:

1. Verifying that the pressure drop across the combined HEPA filters and charcoal adsorber banks is less than 4.3 inches Water Gauge ventilation unit and less than 7.3 inches Water Gauge air conditioning unit while operating the system at a flow rate of 1000# cfm ± 10% for the ventilation unit and 35,485 cfm ± 10% for the air conditioning unit.

2. Verifying that on a control room isolation test signal, the system automatically switches into the emergency mode of operation with flow through the HEPA filters and charcoal adsorber banks.

3. Verifying that on a toxic gas isolation test signal, the system automatically switches into the isolation mode of operation with flow through the HEPA filters and charcoal adsorber banks.

4. Verifying that the system maintains the control room at a positive pressure of greater than or equal to 1/8 inch W.G. relative to the outside atmosphere during system operation in the emergency mode.

5. Verifying that the heaters dissipate 3.2** kw ± 5% when tested in accordance with ANSI N510-1975.

SURVEILLANCE REQUIREMENTS (Continued)

f. After each complete or partial replacement of a HEPA filter bank by verifying that the HEPA filter banks remove greater than or equal to 99.95% of the DOP when they are tested in-place in accordance with ANSI N510-1975 while operating the system at a flow rate of 1000# cfm ± 10% for the ventilation unit and 35,485 cfm ± 10% for the air conditioning unit.

g. After each complete or partial replacement of a charcoal adsorber bank by verifying that the charcoal adsorbers remove greater than or equal to 99.95% of a halogenated hydrocarbon refrigerant test gas when they are tested in-place in accordance with ANSI N510-1975 while operating the system at a flow rate of 1000# cfm ± 10% for the ventilation unit and 35,485 cfm ± 10% for the air conditioning unit.

#At completion of design change package DCP-76M, flow rate of the ventilation unit will increase to 1500 cfm (nominal).

**At completion of design change package DCP-76M, heater dissipation will increase to 4.8 kW (nominal).

3/4.7.6 SNUBBERS

LIMITING CONDITION FOR OPERATION

3.7.6 All snubbers listed in Tables 3.7-4a and 3.7-4b shall be OPERABLE.

APPLICABILITY: MODES 1, 2, 3 and 4. (MODES 5 and 6 for snubbers located on systems required OPERABLE in those MODES).

ACTION:

With one or more snubbers inoperable, within 72 hours replace or restore the inoperable snubber(s) to OPERABLE status and perform an engineering evaluation per Specification 4.7.6.g on the attached component or declare the attached system inoperable and follow the appropriate ACTION statement for that system.

SURVEILLANCE REQUIREMENTS

4.7.6 Each snubber shall be demonstrated OPERABLE by performance of the following augmented inservice inspection program.

a. Inspection Types

As used in this specification, type of snubber shall mean snubbers of the same design and manufacturer, irrespective of capacity.

b. Visual Inspections

The first inservice visual inspection of each type of snubber shall be performed after 4 months but within 10 months of commencing POWER OPERATION and shall include all snubbers listed in Tables 3.7-4a and 3.7-4b. If less than two snubbers of any type are found inoperable during the first inservice visual inspection, the second inservice visual inspection shall be performed 12 months ± 25% from the date of the first inspection. Otherwise, subsequent visual inspections shall be performed in accordance with the following schedule:

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

SAFETY EVALUATION
AMENDMENT 5 to NPF-10
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2
DOCKET NO. 50-361

Introduction

By letter dated July 9, 1982, the licensee requested that the date for completion of control room ventilation system modifications required by condition 2.C(8) of the San Onofre Unit 2 Operating License, NPF-10, be changed from August 1, 1982 to November 1, 1982. The licensee also requested that the associated Technical Specification, 4.7.5, be changed, effective as of the date that the modification to the control room ventilation system is complete. Our evaluation of the proposed change and the associated Technical Specification modification is given below.

Evaluation

In Supplement Number 2 to the San Onofre Unit 2 and 3 Safety Evaluation Report (NUREG-0712), the staff completed its review of control room habitability. The review was conducted in accordance with Section 6.4 of the SRP (NUREG-0800) and Item III.D.3.4 of NUREG-0737 and there were no open items.

Subsequently, the licensee conducted air tests to demonstrate the effectiveness of the control room ventilation system when operated in the pressurization mode. The tests were to show that the control room could be pressurized to 1/8" water gauge as the licensee had committed. The licensee concluded that the system as originally installed could not achieve 1/8" water gauge pressure and that it was necessary to make modifications to the ventilation system design. The air tests did, however, demonstrate the original system could pressurize the control room to 0.04" water gauge.

The staff and the licensee met on January 21, 1982 in Bethesda to discuss the licensee's proposed changes and the schedule for those modifications. The licensee provided justification for operation prior to making the modifications and formally submitted documentation on these changes in its submittal dated January 27, 1982. In that submittal, the licensee indicated that the control room modifications would be in place by August 1, 1982, and that the modifications would permit the control room to be pressurized to 1/8" water gauge. The licensee indicated that the modifications could not be accomplished prior to fuel loading (February 1982) and operation above 5% power (scheduled for August 1982).

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On the basis of the licensee's presentation in the January 21, 1982 meeting and on the staff's review of the formal submittal dated January 27, 1982, the staff found the analysis to be conservative. Calculated radiation doses were less than the GDC-19 guideline values and the chlorine analysis indicated acceptable concentration limits without taking credit for cleanup by the control room recirculation charcoal filters.

The staff concluded that operation until the modications were completed (August 1, 1982) was acceptable because the licensee has demonstrated that the original system can provide 0.04" water gauge pressurization, which will provide substantial protection against both toxic gases and airborne radiation, and the licensee has committed to bringing this pressure up to 1/8" water gauge by the installation of:

1. seismically qualified low leakage dampers on the normal ventilation system ducts; and

2. a larger seismically qualified-safety grade ventilation system fan motor.

The San Onofre Unit 2 Operating License was conditioned to require that the modifications specified above be in place by August 1, 1982 and to require that with these modifications in place the licensee demonstrate that the control room can be pressurized to 1/8" water gauge. Finally, we required that the control room be periodically tested in accordance with the provisions of the Standard Technical Specifications.

Subsequently, in a meeting in Bethesda on June 24, 1982, and in a letter dated July 9, 1982, the licensee requested an extension of the schedule because of delays associated with the delivery of the larger, seismically qualified-safety grade fan motor identified above. The licensee proposed to complete the work by November 1, 1982 rather than August 1, 1982. In considering the request, the staff notes that the licensee has stated that the low leakage dampers are installed and will be operational by August 1, 1982. Even without the new fan motor, the new low leakage dampers will provide significant additional protection for the control room operators prior to replacement of the original fan motor.

As a result, the staff concludes that the completion of the control room habitability system modification, as previously described by the licensee and as identified above, by November 1, 1982 versus August 1, 1982, is acceptable.

The ventilation system change required a change in Technical Specification 4.7.5, Control Room Emergency Air Cleanup System, to reflect the new system air flow rate and heater capacity. We have reviewed the proposed revision to Technical Specification 4.7.5 and find it acceptable because it properly reflects the proposed system changes.

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 to 10 CFR Section 51.5(d)(4), that an environmental impact statement or negative declaration and environental impact appraisal need not be prepared in connection with the issuance of this statement.

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 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 the public. We, therefore, conclude that the proposed changes are acceptable.

Dated: JUL 30 1982

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-361

SOUTHERN CALIFORNIA EDISON COMPANY, ET AL

NOTICE OF ISSUANCE OF AMENDMENT

FACILITY OPERATING LICENSE NO. NPF-10

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 5 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 as of the date of issuance.

Amendment No. 5 changes the date for completion of modifications to the control room ventilation system from August 1, 1982 to November 1, 1982, and also changes the associated Technical Specifications.

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 July 9, 1982, (2) Amendment No. 5 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 02672. 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 30th day of July, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

"Original signed by Frank J. Miraglia"

Frank J. Miraglia, Chief
Licensing Branch No. 3
Division of Licensing

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