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OCT 26 1982

Docket No.: 50-361

Mr. Robert Dietch
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. 10 to Facility Operating License NPF-10
San Onofre Nuclear Generating Station, Unit 2

The Nuclear Regulatory Commission has issued Amendment No. 10 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 August 16, 1982. The amendment changes the technical specifications applicable to the level in the condensate storage tank to permit water inventory to be based on maximum achieved power level while continuing to meet NRC staff criteria for condensate water inventory.

A copy of the related safety evaluation supporting Amendment No. 10 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

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

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Enclosures:

1. Amendment No. 10
2. Safety Evaluation
3. Federal Register Notice

cc w/enclosures:
See next page

*See previous yellow

OFFICE	*DL:LB#3 JLee/yt	DL:LB#3 HRood	DL:AD/AS GKnighton	*OELD LChandler	DL:AD/L TMOVak		
SURNAME							
DATE	10/ /82	10/25/82	10/25/82	10/ /82	10/ /82		

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This amendment is in response to your letter dated August 16, 1982. The amendment changes the technical specifications applicable to the level in the condensate storage tank to ~~minimize technical specification violations~~ while meeting MRC staff criteria for condensate water inventory.

permit water inventory to be based on maximum power level

A copy of the related safety evaluation supporting Amendment No. 10 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

Janis Kerrigan, Acting Chief
Licensing Branch No. 3
Division of Licensing

Enclosures:

1. Amendment No. 10
2. Safety Evaluation
3. Federal Register Notice

cc w/enclosures:
See next page

No legal objection to change noted

OFFICE	DL:LB#3	DL:LB#3	DL:LB#3	OELD	DL:AD/L		
SURNAME	JL/yt	Hood	JKerrigan	LICHANDER	TMNovak		
DATE	10/19/82	10/18/82	10/19/82	10/19/82	10/.../82		

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. 10
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. 10, 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 the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

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

Date of Issuance: OCT 26 1982

*See previous yellow.

OFFICE	*DL:LB#3	DL:LB#3	DL:LB#3	OELD *	DL:AD/L		
SURNAME	JLee/yt	HRood	GKnighton	LChandler	TNovak		
DATE	10/ /82	10/25/82	10/25/82	10/ /82	10/ /82		

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. 10, 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 the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Janis Kerrigan, Acting Chief
Licensing Branch No. 3
Division of Licensing

Date of Issuance:

no legal objection subject to change in SEC

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OFFICE	DL:LB#3	DL:LB#3	DL:LB#3	DL:AD/L		
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DATE	10/18/82	10/18/82	10/21/82	10/21/82		

ATTACHMENT TO LICENSE AMENDMENT NO. 10

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 page is also provided to maintain document completeness.

Overleaf
Page

3/4 7-5

Amendment
Page

3/4 7-6
3/4 7-6a

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SURVEILLANCE REQUIREMENTS (Continued)

- b. At least once per 18 months during shutdown by:
 - 1. Verifying that each automatic valve in the flow path actuates to its correct position upon receipt of an EFAS test signal.
 - 2. Verifying that each pump starts automatically upon receipt of an EFAS test signal.

4.7.1.2.2 The auxiliary feedwater system shall be demonstrated OPERABLE prior to entering MODE 2 following each COLD SHUTDOWN by performing a flow test to verify the normal flow path from the primary AFW supply tank (condensate storage tank T-121) through each auxiliary feedwater pump to its associated steam generator.

PLANT SYSTEMS

CONDENSATE STORAGE TANK

LIMITING CONDITION FOR OPERATION

3.7.1.3 The condensate storage tanks (CSTs) shall be OPERABLE with a contained volume of at least 144,000* gallons in T-121 and 280,000 gallons in T-120.

APPLICABILITY: MODES 1, 2 and 3.

ACTION:

With the condensate storage tanks inoperable, within 4 hours either restore the CSTs to OPERABLE status or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.

SURVEILLANCE REQUIREMENTS

4.7.1.3 The condensate storage tanks shall be demonstrated OPERABLE at least once per 12 hours by verifying the contained water volume is within its limits.

*Prior to first achieving 100% power, the minimum volume required to be contained in T-121 is that shown on Figure 3.7-1 corresponding to the maximum power level achieved to date.

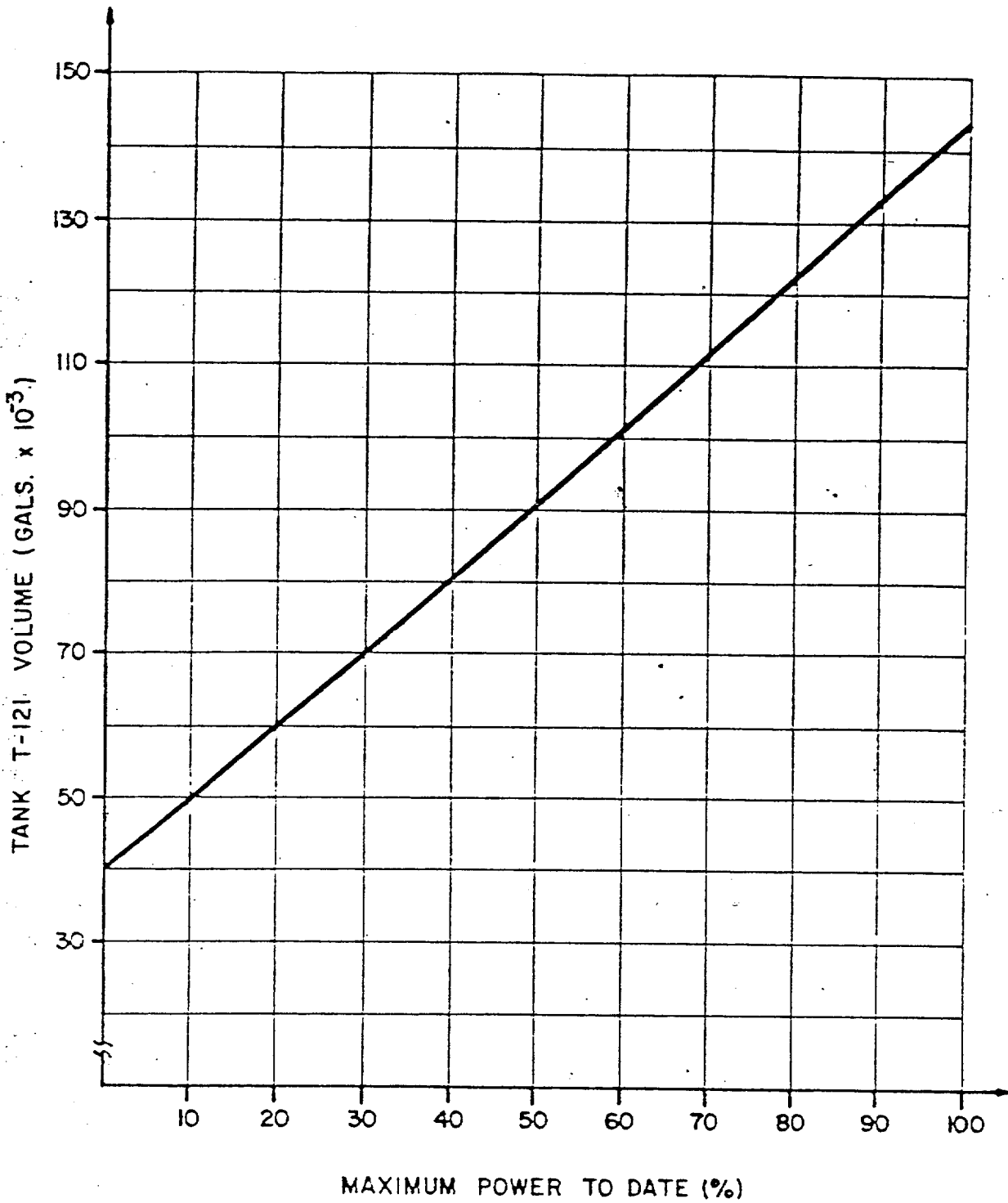


FIGURE 3.7-1

MINIMUM REQUIRED FEEDWATER INVENTORY FOR TANK T-121 FOR MAXIMUM POWER ACHIEVED TO DATE

SAN ONOFRE-UNIT 2

3/4 7-6A

Amendment No. 10

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

Introduction

By letter dated August 16, 1982, the licensees requested a change to the San Onofre Nuclear Generating Station, Unit 2 technical specifications, specifically in 3.7.1.3, Condensate Storage Tank. This change will permit water inventory to be based on maximum achieved power level. The change will also assure an adequate feedwater inventory until the installation of an automatic level control system is completed as a permanent solution.

Evaluation

The condensate storage water inventory at San Onofre Unit 2 was designed to provide enough feedwater for two hours of operation at hot standby, followed by cooldown to 400°F. At this temperature, the licensees have stated that the shutdown cooling system can be used to remove decay heat after an accident. To meet this requirement, Technical Specification 3.7.1.3 requires that a minimum of 144,000 gallons of condensate water be maintained in the seismic Category I tank T-121.

In addition to the above requirements, during its review of the OL application for San Onofre 2, the staff required that the licensees show that sufficient feedwater was available for four hours of operation at hot standby, followed by cooldown to 350°F, which is the temperature at which the shutdown cooling system is normally placed in service. This additional requirement meets the recommendations of Branch Technical Position RSB 5-1, and is assured by Technical Specification 3.7.1.3, which requires that a minimum of 280,000 gallons of condensate water be maintained in tank T-120, in addition to the water in tank T-121.

The volume that is required to be maintained in T-121 by the current technical specification is based on initial operation at 100% power and sufficient operation at full power to develop the maximum amount of decay heat. During startup testing prior to operation at 100% power, the core fission product inventory will be less than that required to generate the maximum amount of decay heat. Therefore, the feedwater inventory requirements are correspondingly lower.

The proposed change will ensure an adequate feedwater inventory in T-121 for 2 hours at hot standby followed by plant cooldown to 400°F, for the maximum decay heat which could be present at the time. The minimum inventories to be maintained in tank T-121 are equal to the sum of the feedwater required for decay heat removal from standard fission product decay energies for various plant power levels and the feedwater required for cooldown to shutdown cooling entry conditions. For conservatism, a +2% uncertainty for core thermal power, a +10% uncertainty in decay heat and a +20% uncertainty for the minimum inventory required at 0% power were assumed.

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In addition, the proposed change leaves intact the minimum 280,000 gallon feedwater inventory required to be maintained in tank T-120 by Technical Specification 3.7.1.3. The inventory in T-120, when combined with the volume of feedwater inventory required to be maintained in T-121 by Technical Specification 3.7.1.3, provides an assured condensate supply sufficient to meet NRC staff criteria. Specifically, the condensate supply is enough to maintain the plant at hot standby for four hours followed by a cooldown at 350°F. This is consistent with the requirements of Reactor Systems Branch Technical Position 5-1 (RSB BTP 5-1) as delineated in Section 5.4.7 of the Standard Review Plan.

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 environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

Based upon our evaluation of the proposed change 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: **OCT 26 1982**

Handwritten: 112, George Knighton, 10/25/82

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DATE	10/19/82	10/18/82					

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

Introduction

By letter dated August 16, 1982, the licensees requested a change to the San Onofre Nuclear Generating Station, Unit 2 technical specifications, specifically in 3.7.1.3, Condensate Storage Tank. This change will ~~minimize the probability of violations of this specification due to difficulty in controlling level in condensate storage tank T-121 during operation of the auxiliary feedwater system.~~ *permit water inventory to be based on maximum achieved power level.* The change will also assure an adequate feedwater inventory until the installation of an automatic level control system is completed as a permanent solution.

Evaluation

The condensate storage water inventory at San Onofre Unit 2 was designed to provide enough feedwater for two hours of operation at hot standby, followed by cooldown to 400°F. At this temperature, the licensees have stated that the shutdown cooling system can be used to remove decay heat after an accident. To meet this requirement, Technical Specification 3.7.1.3 requires that a minimum of 144,000 gallons of condensate water be maintained in the seismic Category I tank T-121.

In addition to the above requirements, during its review of the OL application for San Onofre 2, the staff required that the licensees show that sufficient feedwater was available for four hours of operation at hot standby, followed by cooldown to 350°F, which is the temperature at which the shutdown cooling system is normally placed in service. This additional requirement meets the recommendations of Branch Technical Position RSB 5-1, and is assured by Technical Specification 3.7.1.3, which requires that a minimum of 280,000 gallons of condensate water be maintained in tank T-120, in addition to the water in tank T-121.

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The proposed change will ensure an adequate feedwater inventory in T-121 for 2 hours at hot standby followed by plant cooldown to 400°F, for the maximum decay heat which could be present at the time. The minimum inventories to be maintained in tank T-121 are equal to the sum of the feedwater required for decay heat removal from standard fission product decay energies for various plant power levels and the feedwater required for cooldown to shutdown cooling entry conditions. ~~For conservatism, a +2% uncertainty for core thermal power, a +10% uncertainty in decay heat and a +20% uncertainty for the minimum inventory required at 0% power were assumed.~~

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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. 10 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. 10 changes the technical specifications applicable to the water level in the condensate storage tank to permit water inventory to be based on maximum achieved power level while continuing to meet NRC staff criteria for condensate water inventory.

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 August 16, 1982, (2) Amendment No. 10 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 26th day of October, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

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

*See previous yellow.

OFFICE	*DL:LB#3	DL:LB#3	DL:LB#3	OELD*	DL:AD/L		
SURNAME	JLee/yt	HRood	GK Knighton	LChandler	TMNovak		
DATE	10/ /82	10/ /82	10/25/82	10/ /82	10/ /82		

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Dated at Bethesda, Maryland, this day of October, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

Janis Kerrigan, Acting Chief
Licensing Branch No. 3
Division of Licensing

no local objections subject to change in F.R. notice

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DATE	10/18/82	10/18/82	10/18/82	10/21/82	10/ /82		

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-361

SOUTHERN CALIFORNIA EDISON COMPANY, ET AL

NOTICE OF ISSUANCE OF AMENDMENT

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Amendment No. 10 changes the technical specifications applicable to the water level in the condensate storage tank to ~~minimize technical specification~~ *permit water inventory to be based on maximum achieved power level* violations while meeting NRC staff criteria for condensate water inventory. *continuing to*

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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Document Control (50-361)

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