Mr. William L. Stewart
Executive Vice President, Nuclear
Arizona Public Service Company
Post Office Box 53999
Phoenix, Arizona 85072-3999

July 6, 1995

SUBJECT: ISSUANCE OF AMENDMENTS FOR THE PALO VERDE NUCLEAR GENERATING STATION UNIT NO. 1 (TAC NO. 89329), UNIT NO. 2 (TAC NO. 89330), AND UNIT NO. 3 (TAC NO. 89331)

Dear Mr. Stewart:

The Commission has issued the enclosed Amendment No. 94 to Facility Operating License No. NPF-41, Amendment No. 82 to Facility Operating License No. NPF-51, and Amendment No. 65 to Facility Operating License No. NPF-74 for the Palo Verde Nuclear Generating Station, Unit Nos. 1, 2, and 3, respectively. The amendments consist of changes to the Technical Specifications in response to your application dated March 28, 1994.

These amendments change Technical Specification (TS) 3.7.1.3, "Condensate Storage Tank." The licensee proposed to change the minimum condensate storage tank (CST) indicated level from 25 feet to 29.5 feet to ensure that the CST contains a sufficient volume of water. In addition, an editorial change to TS 3.7.1.3 from "with a level" to "with an indicated level" was made for Unit 3 to be consistent with the Units 1 and 2 TSs.

A copy of the related Safety Evaluation is also enclosed. A notice of issuance will be included in the Commission's next regular biweekly Federal Register notice.

Sincerely,
Original Signed By
Charles R. Thomas, Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Docket Nos. STN 50-528, STN 50-529
and STN 50-530

Enclosures: 1. Amendment No. 94 to NPF-41
2. Amendment No. 82 to NPF-51
3. Amendment No. 65 to NPF-74
4. Safety Evaluation

cc w/encls: See next page

120167

DISTRIBUTION

Docket File	PUBLIC
RIV, WCFO (4)	EPeyton
KPerkins, WCFO	GHill (6), T5C3
OPA, O2G5	OC/LFDCB, T9E10
EGA1	PDIV-2 Reading
WBateman	OGC, O15B18
CGrimes, O11E22	ACRS (4), T2E26
Region IV	BHolian
CThomas	LHurley, RIV
CMcCracken	HWong, WCFO
RJones	

DOCUMENT NAME: PV89329.AMD *See Previous Concurrence

OFC	PDIV-2/LA	PDIV-2/PM	PDIV-2/PM	SPLB*	SRXB*	OGC NLO
NAME	EPeyton	CThomas:pk	BHolian	CMcCracken	RJones	MZobler
DATE	/ /95	6/8/95	6/8/95	5/31/95	6/1/95	6/14/95

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PDR ADOCK 05000528
P PDR

Subject to NOKET correction of letter

Mr. William L. Stewart
Executive Vice President, Nuclear
Arizona Public Service Company
Post Office Box 53999
Phoenix, Arizona 85072-3999

July 6, 1995

SUBJECT: ISSUANCE OF AMENDMENTS FOR THE PALO VERDE NUCLEAR GENERATING STATION UNIT NO. 1 (TAC NO. 89329), UNIT NO. 2 (TAC NO. 89330), AND UNIT NO. 3 (TAC NO. 89331)

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Docket Nos. STN 50-528, STN 50-529
and STN 50-530

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DATE	/ /95	6/ /95	6/8/95	5/31/95	6/1/95	6/14/95

OFFICIAL RECORD COPY

Subject to Noted corrections on front of letter

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

July 6, 1995

Mr. William L. Stewart
Executive Vice President, Nuclear
Arizona Public Service Company
Post Office Box 53999
Phoenix, Arizona 85072-3999

SUBJECT: ISSUANCE OF AMENDMENTS FOR THE PALO VERDE NUCLEAR GENERATING STATION UNIT NO. 1 (TAC NO. 89329), UNIT NO. 2 (TAC NO. 89330), AND UNIT NO. 3 (TAC NO. 89331)

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These amendments change Technical Specification (TS) 3.7.1.3, "Condensate Storage Tank." The licensee proposed to change the minimum condensate storage tank (CST) indicated level from 25 feet to 29.5 feet to ensure that the CST contains a sufficient volume of water. In addition, an editorial change to TS 3.7.1.3 from "with a level" to "with an indicated level" was made for Unit 3 to be consistent with the Units 1 and 2 TSs.

A copy of the related Safety Evaluation is also enclosed. A notice of issuance will be included in the Commission's next regular biweekly Federal Register notice.

Sincerely,

Charles R. Thomas, Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Docket Nos. STN 50-528, STN 50-529
and STN 50-530

Enclosures:
1. Amendment No. 94 to NPF-41
2. Amendment No. 82 to NPF-51
3. Amendment No. 65 to NPF-74
4. Safety Evaluation

cc w/encls: See next page

cc w/encls:
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

ARIZONA PUBLIC SERVICE COMPANY, ET AL.

DOCKET NO. STN 50-528

PALO VERDE NUCLEAR GENERATING STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 94
License No. NPF-41

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

   A. The application for amendment by the Arizona Public Service Company (APS or the licensee) on behalf of itself and the Salt River Project Agricultural Improvement and Power District, El Paso Electric Company, Southern California Edison Company, Public Service Company of New Mexico, Los Angeles Department of Water and Power, and Southern California Public Power Authority dated March 28, 1994, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations set forth in 10 CFR Chapter I;

   B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and 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;

   D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and

   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.

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-41 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 94, and the Environmental Protection Plan contained in Appendix B, are hereby incorporated into this license. APS shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan, except where otherwise stated in specific license conditions.

3. This license amendment is effective as of the date of issuance to be implemented 45 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Charles R. Thomas, Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical Specifications

Date of Issuance: July 6, 1995

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 94 TO FACILITY OPERATING LICENSE NO. NPF-41

DOCKET NO. STN 50-528

Replace the following page of the Appendix A Technical Specifications with the enclosed page. The revised page is identified by amendment number and contains vertical lines indicating the areas of change.

REMOVE	INSERT
3/4 7-6	3/4 7-6

PLANT SYSTEMS

CONDENSATE STORAGE TANK

LIMITING CONDITION FOR OPERATION

3.7.1.3 The condensate storage tank (CST) shall be OPERABLE with an indicated level of at least 29.5 feet (300,000 gallons).

APPLICABILITY: MODES 1, 2, 3#, and 4*#.

ACTION:

With the condensate storage tank inoperable, within 4 hours either:

a. Restore the CST to OPERABLE status or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours, or

b. Demonstrate the OPERABILITY of the reactor makeup water tank as a backup supply to the essential auxiliary feedwater pumps and restore the condensate storage tank to OPERABLE status within 7 days or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN with a OPERABLE shutdown cooling loop in operation within the following 6 hours.

SURVEILLANCE REQUIREMENTS

4.7.1.3.1 The condensate storage tank shall be demonstrated OPERABLE at least once per 12 hours by verifying the level (contained water volume) is within its limits when the tank is the supply source for the auxiliary feedwater pumps.

4.7.1.3.2 The reactor makeup water tank shall be demonstrated OPERABLE at least once per 12 hours whenever the reactor makeup water tank is the supply source for the essential auxiliary feedwater pumps by verifying:

a. That the reactor makeup water tank supply line to the auxiliary feedwater system isolation valve is open, and

b. That the reactor makeup water tank contains a water level of at least 26 feet (300,000 gallons).

---

*Until the steam generators are no longer required for heat removed.
#Not applicable when cooldown is in progress.

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

ARIZONA PUBLIC SERVICE COMPANY, ET AL.

DOCKET NO. STN 50-529

PALO VERDE NUCLEAR GENERATING STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 82
License No. NPF-51

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

   A. The application for amendment by the Arizona Public Service Company (APS or the licensee) on behalf of itself and the Salt River Project Agricultural Improvement and Power District, El Paso Electric Company, Southern California Edison Company, Public Service Company of New Mexico, Los Angeles Department of Water and Power, and Southern California Public Power Authority dated March 28, 1994, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations set forth in 10 CFR Chapter I;

   B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and 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;

   D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and

   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.

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-51 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 82, and the Environmental Protection Plan contained in Appendix B, are hereby incorporated into this license. APS shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan, except where otherwise stated in specific license conditions.

3. This license amendment is effective as of the date of issuance to be implemented 45 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Charles R. Thomas, Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical Specifications

Date of Issuance: July 6, 1995

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 82 TO FACILITY OPERATING LICENSE NO. NPF-51

DOCKET NO. STN 50-529

Replace the following page of the Appendix A Technical Specifications with the enclosed page. The revised page is identified by amendment number and contains vertical lines indicating the areas of change.

REMOVE	INSERT
3/4 7-6	3/4 7-6

CONDENSATE STORAGE TANK

LIMITING CONDITION FOR OPERATION

3.7.1.3 The condensate storage tank (CST) shall be OPERABLE with an indicated level of at least 29.5 feet (300,000 gallons).

APPLICABILITY: MODES 1, 2, 3,# and 4.*#

ACTION:

With the condensate storage tank inoperable, within 4 hours either:

a. Restore the CST to OPERABLE status or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours, or

b. Demonstrate the OPERABILITY of the reactor makeup water tank as a backup supply to the auxiliary feedwater pumps and restore the condensate storage tank to OPERABLE status within 7 days or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN with a OPERABLE shutdown cooling loop in operation within the following 6 hours.

SURVEILLANCE REQUIREMENTS

4.7.1.3.1 The condensate storage tank shall be demonstrated OPERABLE at least once per 12 hours by verifying the level (contained water volume) is within its limits when the tank is the supply source for the auxiliary feedwater pumps.

4.7.1.3.2 The reactor makeup water tank shall be demonstrated OPERABLE at least once per 12 hours whenever the reactor makeup water tank is the supply source for the auxiliary feedwater pumps by verifying:

a. That the reactor makeup water tank supply line to the auxiliary feed system isolation valve is open, and

b. That the reactor makeup water tank contains a water level of at least 26 feet (300,000 gallons).

---

*Until the steam generators are no longer required for heat removed.
#Not applicable when cooldown is in progress.

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

ARIZONA PUBLIC SERVICE COMPANY, ET AL.

DOCKET NO. STN 50-530

PALO VERDE NUCLEAR GENERATING STATION, UNIT NO. 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 65
License No. NPF-74

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

   A. The application for amendment by the Arizona Public Service Company (APS or the licensee) on behalf of itself and the Salt River Project Agricultural Improvement and Power District, El Paso Electric Company, Southern California Edison Company, Public Service Company of New Mexico, Los Angeles Department of Water and Power, and Southern California Public Power Authority dated March 28, 1994, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations set forth in 10 CFR Chapter I;

   B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and 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;

   D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and

   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.

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-74 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 65, and the Environmental Protection Plan contained in Appendix B, are hereby incorporated into this license. APS shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan, except where otherwise stated in specific license conditions.

3. This license amendment is effective as of the date of issuance and must be fully implemented no later than 45 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Charles R. Thomas, Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: July 6, 1995

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 65 TO FACILITY OPERATING LICENSE NO. NPF-74

DOCKET NO. STN 50-530

Replace the following page of the Appendix A Technical Specifications with the enclosed page. The revised page is identified by amendment number and contains vertical lines indicating the areas of change.

REMOVE	INSERT
3/4 7-6	3/4 7-6

PLANT SYSTEMS

CONDENSATE STORAGE TANK

LIMITING CONDITION FOR OPERATION

3.7.1.3 The condensate storage tank (CST) shall be OPERABLE with an indicated level of at least 29.5 feet (300,000 gallons).

APPLICABILITY: MODES 1, 2, 3,# and 4*#.

ACTION:

With the condensate storage tank inoperable, within 4 hours either:

a. Restore the CST to OPERABLE status or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours, or

b. Demonstrate the OPERABILITY of the reactor makeup water tank as a backup supply to the essential auxiliary feedwater pumps and restore the condensate storage tank to OPERABLE status within 7 days or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN with a OPERABLE shutdown cooling loop in operation within the following 6 hours.

SURVEILLANCE REQUIREMENTS

4.7.1.3.1 The condensate storage tank shall be demonstrated OPERABLE at least once per 12 hours by verifying the level (contained water volume) is within its limits when the tank is the supply source for the auxiliary feedwater pumps.

4.7.1.3.2 The reactor makeup water tank shall be demonstrated OPERABLE at least once per 12 hours whenever the reactor makeup water tank is the supply source for the essential auxiliary feedwater pumps by verifying:

a. That the reactor makeup water tank supply line to the auxiliary feedwater system isolation valve is open, and

b. That the reactor makeup water tank contains a water level of at least 26 feet (300,000 gallons).

---

*Until the steam generators are no longer required for heat removed.
#Not applicable when cooldown is in progress.

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 94 TO FACILITY OPERATING LICENSE NO. NPF-41,

AMENDMENT NO. 82 TO FACILITY OPERATING LICENSE NO. NPF-51,

AND AMENDMENT NO. 65 TO FACILITY OPERATING LICENSE NO. NPF-74

ARIZONA PUBLIC SERVICE COMPANY, ET AL.

PALO VERDE NUCLEAR GENERATING STATION, UNIT NOS. 1, 2, AND 3

DOCKET NOS. STN 50-528, STN 50-529, AND STN 50-530

1.0 INTRODUCTION

By letters dated March 28, 1994, and July 5, 1995, the Arizona Public Service Company (APS or the licensee) submitted a request for changes to the Technical Specifications (TSs) for the Palo Verde Nuclear Generating Station (PVNGS), Units 1, 2, and 3 (Appendix A to Facility Operating License Nos. NPF-41, NPF-51, and NPF-74, respectively). There was also a teleconference between the licensee and the staff on May 19, 1995, regarding the licensee's engineering audit of setpoint validation of the condensate storage tank (CST) for PVNGS. The Arizona Public Service Company submitted this request on behalf of itself, the Salt River Project Agricultural Improvement and Power District, Southern California Edison Company, El Paso Electric Company, Public Service Company of New Mexico, Los Angeles Department of Water and Power, and Southern California Public Power Authority. The proposed changes would change Technical Specification (TS) 3.7.1.3, "Condensate Storage Tank." The licensee proposed to change the minimum CST indicated level from 25 feet to 29½ feet to ensure that the CST contains a sufficient volume of water. In addition, the licensee proposed to make an editorial change to the Unit 3 TS 3.7.1.3 from "with a level" to "with an indicated level," to be consistent with the TSs for Units 1 and 2.

2.0 BACKGROUND

During an engineering audit of setpoint validations for PVNGS, the licensee determined that incorrect assumptions were used in determining the indicated level of the CST. The licensee's original assumption showed an indicated level of 25 feet with a reference point that was 3½ feet above the bottom of the tank. The licensee reevaluated the CST reference point and changed it from 3½ feet to 0 to reflect the bottom of the tank. In addition, during a telecon on May 19, 1995, between the licensee and the NRC staff, the licensee stated that the original calculation had an instrument uncertainly error of ±6 inches. The licensee subsequently verified its statement in a letter dated July 5, 1995. The licensee's new calculation has an instrument uncertainty

error of ±18 inches. Accordingly, the licensee has raised the indicated level of the CST by 4½ feet (3½ feet plus 12 inches) to 29½ feet.

The CST is a Seismic Category 1 storage tank that provides the primary source of water for the auxiliary feedwater (AFW) system. The AFW system removes decay heat and cools down the reactor coolant system (RCS) to a temperature (less than 350 degrees F) at which the shutdown cooling system can be used to remove decay heat. The most limiting event for the CST inventory is the Branch Technical Position (BTP) RSB 5-1 scenario (natural circulation cooldown) which requires that the CST have sufficient inventory to maintain the RCS in HOT STANDBY for 4 hours followed by a natural circulation cooldown to shutdown cooling entry conditions. Analysis and testing (letter ANPP-40069, "PVNGS Natural Circulation Test Report," dated February 9, 1987) shows that a minimum water volume of 300,000 gallons is enough to satisfy the requirements of BTP RSB 5-1. The design basis of the CST described in UFSAR Section 9.2.6 and the BASES for TS 3.7.1.3 also state that the operability of the CST ensures that a minimum water volume of 300,000 gallons is available to maintain the RCS, with a concurrent total loss of offsite power, in HOT STANDBY for 8 hours followed by an orderly cooldown to an RCS temperature of less than 350 degrees F at which the shutdown cooling system may be placed in operation.

3.0 EVALUATION

The proposed amendment to TS 3.7.1.3 increases the minimum indicated level in the CST from 25 feet to 29½ feet. This change corrects an error in determining the CST reference point and ensures that the CST volume of 300,000 gallons is available to satisfy the requirements of BTP RSB 5-1 and UFSAR Section 9.2.6.

The licensee also has had administrative controls in place since July 1992 to keep the CST between a maximum operating level of 47 feet 11 inches and a minimum operating level of 31 feet, with a high-level alarm of 44 feet 7 inches and a low-level alarm of 35 feet 7 inches. The licensee stated that, to its knowledge, the original design basis of 300,000 gallons of water has not been compromised. This change is consistent with the revised plant design and corrects a discrepancy in the calculation of the tank's proper indicated level. The change corrects the indicated tank level to ensure that the necessary water volume is properly maintained and is, therefore, acceptable.

An editorial change is being made to Unit 3 TS 3.7.1.3 to change "with level" to "with an indicated level." This makes Unit 3 TS 3.7.1.3 consistent with the TSs for Units 1 and 2, and is acceptable.

4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Arizona State official was notified of the proposed issuance of the amendments. The State official had no comments.

5.0 ENVIRONMENTAL CONSIDERATION

The amendments change a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendments involve no significant hazards considera-tion, and there has been no public comment on such finding (59 FR 29625). Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

6.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: C. Thomas

Date: July 6, 1995