Docket No. 50-530

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

Dear Mr. Conway:

SUBJECT: ISSUANCE OF AMENDMENT NO. 25 TO FACILITY OPERATING LICENSE, PALO VERDE NUCLEAR GENERATING STATION, UNIT NO. 3 (TAC NO. 79023)

The Commission has issued the enclosed Amendment No. 25 to the Facility Operating License for Palo Verde Nuclear Generating Station, Unit No. 3. The amendment consists of changes to the Technical Specifications in response to your application dated November 14, 1990.

The amendment allows the 18-month surveillance tests for the 125-volt batteries and containment penetration overcurrent protective devices to be deferred until the end of the next refueling outage (scheduled to begin March 16, 1991), but before June 15, 1991.

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

Sincerely,

Original signed by Charles M. Trammell

Charles M. Trammell, Senior Project Manager Project Directorate V Division of Reactor Projects III/IV/V Office of Nuclear Reactor Regulation

#### Enclosures:

1. Amendment No. 25 to NPF-74

2. Safety Evaluation

cc w/enclosures:
See next page

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Mr. William F. Conway Arizona Public Service Company

cc:

Arthur C. Gehr, Esq. Snell & Wilmer 3100 Valley Center Phoenix, Arizona 85073

James A. Beoletto, Esq. Southern California Edison Company P. O. Box 800 Rosemead, California 91770

Senior Resident Inspector U.S. Nuclear Regulatory Commission HC-03 Box 293-NR Buckeye, Arizona 85326

Regional Administrator, Region V U. S. Nuclear Regulatory Commission 1450 Maria Lane Suite 210 Walnut Creek, California 94596

Mr. Charles B. Brinkman Washington Nuclear Operations Combustion Engineering, Inc. 12300 Twinbrook Parkway, Suite 330 Rockville, Maryland 20852

Mr. Charles Tedford, Director Arizona Radiation Regulatory Agency 4814 South 40 Street Phoenix, Arizona 85040

Chairman Maricopa County Board of Supervisors 111 South Third Avenue Phoenix, Arizona 85003 Palo Verde

Jack R. Newman, Esq. Newman & Holtzinger, P.C. 1615 L Street, N.W., Suite 1000 Washington, D.C. 20036



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

### 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. 25 License No. NPF-74

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Arizona Public Service Company 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 (licensees), dated November 14, 1990, 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 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) <u>Technical Specifications and Environmental Protection Plan</u>

The Technical Specifications contained in Appendix A, as revised through Amendment No. 25, 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

James E. Dyer, Director Project Directorate V

James & Olger

Division of Reactor Projects III/IV/V Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical Specifications

Date of Issuance: January 3, 1991

# ATTACHMENT TO LICENSE AMENDMENT NO. 25

# TO FACILITY OPERATING LICENSE NO. NPF-74

# DOCKET NO. STN 50-530

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 areas of change.

Remove	Insert
3/4 8-10	3/4 8-10
3/4 8-18	3/4 8-18

## SURVEILLANCE REQUIREMENTS (Continued)

- b. At least once per 92 days and within 7 days after a battery discharge with battery terminal voltage below 105 volts, or battery overcharge with battery terminal voltage above 145 volts, by verifying that:
  - 1. The parameters in Table 4.8-2 meet the Category B limits,
  - 2. There is no visible corrosion at either terminals or connectors, or the connection resistance of these items is less than  $150 \times 10^{-6}$  ohms, and
  - 3. The average electrolyte temperature of six connected cells is above  $60^{\circ}F$ .
- c. At least once per 18 months by verifying that:
  - 1. The cells, cell plates, and battery racks show no visual indication of physical damage or abnormal deterioration,
  - 2. The cell-to-cell and terminal connections are clean, tight, and coated with anticorrosion material,
  - 3. The resistance of each cell-to-cell and terminal connection is less than or equal to  $150 \times 10^{-6}$  ohms, and
  - 4. The battery charger will supply at least 400 amperes for batteries A and B and 300 amperes for batteries C and D at 125 volts for at least 8 hours.
- d. At least once per 18 months,\* during shutdown, by verifying that the battery capacity is adequate to supply and maintain in OPERABLE status all of the actual or simulated emergency loads for the design duty cycle when the battery is subjected to a battery service test.
- e. At least once per 60 months, during shutdown, by verifying that the battery capacity is at least 80% of the manufacturer's rating when subjected to a performance discharge test. This performance discharge test may be performed in lieu of the battery service test required by Surveillance Requirement 4.8.2.1d.
- f. Annual performance discharge tests of battery capacity shall be given to any battery that shows signs of degradation or has reached 85% of the service life expected for the application. Degradation is indicated when the battery capacity drops more than 10% of rated capacity from its average on previous performance tests, or is below 90% of the manufacturer's rating.

<sup>\*</sup>This surveillance requirement, otherwise due March 1, 1991, will be performed prior to the end of the second refueling outage or by June 15, 1991.

# SURVEILLANCE REQUIREMENTS (Continued)

- (c) For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested.
- By selecting and functionally testing a representative sample 2. of at least 10% of each type of lower voltage circuit breakers. Circuit breakers selected for functional testing shall be selected on a rotating basis. Testing of these circuit breakers shall consist of injecting a current with a value equal to 300% of the setpoint (pickup) of the long-time delay trip element and 150% of the setpoint (pickup) of the short-time delay trip element, and verifying that the circuit breaker operates within the time delay band width for that current specified by the manufacturer. The instantaneous element shall be tested by injecting a current for a frame size of 250 amps or less with tolerances of +40%/-25% and a frame size of 400 amps or greater of ±25% and verifying that the circuit breaker trips instantaneously with no apparent time delay. Molded case circuit breaker testing shall also follow this procedure except that generally no more than two trip elements, time delay and instantaneous, will be involved. Circuit breakers found inoperable during functional testing shall be restored to OPERABLE status prior to resuming operation. For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested.\*
- b. At least once per 60 months by subjecting each circuit breaker to an inspection and preventive maintenance in accordance with procedures prepared in conjunction with its manufacturer's recommendations.

<sup>\*</sup>This surveillance requirement, otherwise due January 12, 1991, will be performed prior to the end of the second refueling outage or by June 15, 1991.



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

# SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION RELATED TO AMENDMENT NO. 25 TO FACILITY OPERATING LICENSE NO. NPF-74 ARIZONA PUBLIC SERVICE COMPANY, ET AL.

# PALO VERDE NUCLEAR GENERATING STATION, UNIT NO. 3

#### **DOCKET NO. STN 50-530**

#### 1.0 INTRODUCTION

By letter dated November 14, 1990, Arizona Public Service Company (APS) on behalf of itself and 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 (licensees), requested changes to the Technical Specifications for the Palo Verde Nuclear Generating Station, Unit No. 3 located in Maricopa County Arizona. The proposed changes would postpone the required performance of the 18-month 125 V battery service tests (Specification 4.8.2.1.d) and the containment penetration conductor overcurrent protective device operability tests (Specification 4.8.4.1.a.2).

#### 2.0 DISCUSSION AND EVALUATION

The requested changes, if approved, would extend the surveillance intervals for these tests a maximum of 3.5 months for the batteries and 5 months for the overcurrent protective devices beyond the 25% maximum allowed by Specification 4.0.2. To document this one-time extension, the licensee proposed to add a footnote, "The surveillance requirement will be performed prior to the end of the next refueling outage or by June 15, 1991," to the two specifications mentioned above.

The NRC staff has reviewed the proposed changes and finds them acceptable based on the following justification:

- (1) The extensions are short.
- (2) The risk to safety is low in comparison to the alternative of a forced shutdown to perform these surveillances.
- (3) Required weekly and quarterly surveillance tests (electrolyte level, temperature and specific gravity; cell voltage and overall battery condition) of the batteries provide some indication of battery operability.

(4) The containment penetration conductor overcurrent protective devices scheduled to be tested provide backup protection for other primary protective devices which are current in regard to required surveillance. The surveillance is also on a 10% sampling basis in lieu of 100% testing.

## 3.0 ENVIRONMENTAL CONSIDERATION

The amendment involves changes with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20, or changes a surveillance requirement. The staff has determined that the amendment involves 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 amendment involves no significant hazards consideration, and there has been no public comment on such finding. Accordingly, the amendment meets 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 amendment.

#### 4.0 CONCLUSION

The staff 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, and (2) such activities will be conducted in compliance with the Commission's regulations, and 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: F. Burrows, SELB

Dated: January 3, 1991