

October 4, 1991

Docket No. 50-445

Mr. William J. Cahill, Jr.
Executive Vice President
TU Electric
400 North Olive Street, L.B. 81
Dallas, Texas 75201

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Dear Mr. Cahill:

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION, UNIT 1 - AMENDMENT NO. 3 TO FACILITY OPERATING LICENSE NO. NPF-87 (TAC NO. 79338)

The Commission has issued the enclosed Amendment No. 3 to Facility Operating License No. NPF-87 for the Comanche Peak Steam Electric Station, Unit 1. The amendment consists of changes to the Technical Specifications (TS) in response to your application dated December 5, 1990, as supplemented by letter dated August 16, 1991.

The amendment removes from TS 4.8.1.1.2a.4 two of six alternative diesel generator (DG) start signals that can be used to demonstrate operability of the DGs. These two start signals currently start the DGs on loss of the preferred power supply. With the modification, the DGs will start only if the alternate offsite power source fails to repower the switchgear.

A copy of our related Safety Evaluation is enclosed. The Notice of Issuance will be included in the Commission's next biweekly Federal Register notice.

Sincerely,

Original Signed By

Thomas A. Bergman, Acting Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 3 to NPF-87
2. Safety Evaluation

cc w/enclosures:
See next page

OFC	: PDIV-2/LA	: PDIV-2/APM	: OGC	: PDIV-2/D	: SELB	:	:
NAME	: EPeyton	: TBergman	:	: SBlack	: FRosa	:	:
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October 4, 1991

cc w/enclosures:

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Honorable Dale McPherson
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

TEXAS UTILITIES ELECTRIC COMPANY, ET AL.*
COMANCHE PEAK STEAM ELECTRIC STATION, UNIT 1
DOCKET NO. 50-445
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 3
License No. NPF-87

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Texas Utilities Electric Company (TU Electric) acting for itself and as agent for Texas Municipal Power Agency (licensees) dated December 5, 1990, as supplemented by letter dated August 16, 1991, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations 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 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 license 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.

*The current owners of the Comanche Peak Steam Electric Station are: Texas Utilities Electric Company and Texas Municipal Power Agency. Transfer of ownership from Texas Municipal Power Agency to Texas Utilities Electric Company was previously authorized by Amendment No. 9 to Construction Permit CPPR-126 on August 25, 1988 to take place in 10 installments as set forth in the Agreement attached to the application for Amendment dated March 4, 1988. At the completion thereof, Texas Municipal Power Agency will no longer retain any ownership interest.

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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-87 is hereby amended to read as follows:

2. Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 3, and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. The license amendment is effective as of the date of issuance to be implemented within seven days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Suzanne C. Black

Suzanne C. Black, Director
Project Directorate IV-2
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: October 4, 1991

ATTACHMENT TO LICENSE AMENDMENT NO. 3

FACILITY OPERATING LICENSE NO. NPF-87

DOCKET NO. 50-445

Revise Appendix A Technical Specifications by removing the page identified below and inserting the enclosed page. The revised page is identified by amendment number and contains marginal lines indicating the area of change. The corresponding overleaf page is also provided to maintain document completeness.

REMOVE

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INSERT

3/4 8-4

ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION

ACTION (Continued)

offsite source restored, restore at least two offsite circuits to OPERABLE status within 72 hours from time of initial loss or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

- f. With two of the above required diesel generators inoperable, demonstrate the OPERABILITY of two offsite A.C. circuits by performing Surveillance Requirement 4.8.1.1.1a. within 1 hour and at least once per 8 hours thereafter; restore at least one of the inoperable diesel generators to OPERABLE status within 2 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours. Restore at least two diesel generators to OPERABLE status within 72 hours from time of initial loss or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.8.1.1.1 Each of the above required independent circuits between the offsite transmission network and the Onsite Class 1E Distribution System shall be:

- a. Determined OPERABLE at least once per 7 days by verifying correct breaker alignments, indicated power availability, and
- b. Demonstrated OPERABLE at least once per 18 months during shutdown by transferring (manually and automatically) the 6.9 kV safeguards bus power supply from the preferred offsite source to the alternate offsite source.

4.8.1.1.2 Each diesel generator shall be demonstrated OPERABLE:

- a. In accordance with the frequency specified in Table 4.8-1 on a STAGGERED TEST BASIS by:
 - 1) Verifying the fuel level in the day fuel tank,
 - 2) Verifying the fuel level in the fuel storage tank,
 - 3) Verifying the fuel transfer pump starts and transfers fuel from the storage system to the day fuel tank,
 - 4) Verifying the diesel starts from ambient condition and accelerates to at least 441 rpm in less than or equal to 10 seconds.*

*All planned diesel engine starts for the purpose of this surveillance may be preceded by a prelube period in accordance with vendor recommendations.

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

The generator voltage and frequency shall be 6900 ± 690 volts and 60 ± 1.2 Hz within 10 seconds after the start signal**. The diesel generator shall be started for this test by using one of the following signals:

- a) Manual, or
 - b) Simulated safeguards bus undervoltage, or
 - c) Safety Injection Actuation test signal in conjunction with loss of offsite power, or
 - d) Safety Injection Actuation test signal by itself.
- 5) Verifying the generator is synchronized, loaded to between 6,300 and 7,000 kW** and operates at this load condition for at least 60 minutes, and
 - 6) Verifying the diesel generator is aligned to provide standby power to the associated emergency busses.
- b. At least once per 31 days and after each operation of the diesel where the period of operation was greater than or equal to 1 hour by checking for and removing accumulated water from the day fuel tank;
 - c. At least once per 31 days by checking for and removing accumulated water from the fuel oil storage tanks;
 - d. By sampling new fuel oil in accordance with ASTM-D4057-1981 prior to addition to storage tanks and:
 - 1) By verifying in accordance with tests specified in ASTM-D975-1981 prior to addition to the storage tanks that the sample has:

*Diesel generator loading for the purpose of this surveillance may be accomplished in accordance with vendor recommendations; i.e., >110 seconds.

**During performance of surveillance activities as a requirement for ACTION statements, the air-roll test shall not be performed.

#This band is meant as guidance to avoid routine overloading of diesel generator. Momentary load excursions outside this band due to changing bus loads shall not invalidate the test.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 3 TO FACILITY OPERATING LICENSE NO. NPF-87
TEXAS UTILITIES ELECTRIC COMPANY, ET AL.
COMANCHE PEAK STEAM ELECTRIC STATION, UNIT 1
DOCKET NO. 50-445

1.0 INTRODUCTION

By application dated December 5, 1990, as supplemented by letter dated August 16, 1991, Texas Utilities Electric Company (the licensee or TU Electric) requested changes to the Technical Specifications (TS) (Appendix A to Facility Operating License No. NPF-87) for the Comanche Peak Steam Electric Station, Unit No. 1 (CPSES). The proposed changes would delete from TS 4.8.1.1.2a.4 two of six alternative diesel generator (DG) start signals that can be used to demonstrate operability of the DGs. These two start signals currently start the DGs on loss of the preferred power supply. With the proposed modification, the DGs will start only if both the preferred offsite power supply and the alternate offsite power supply are unavailable. The August 16, 1991, submittal provided additional clarification to the TS and did not change the action noticed in the Federal Register on February 6, 1991, or affect the initial no significant hazards consideration determination.

2.0 EVALUATION

Comanche Peak Unit 1 DGs currently start when the preferred offsite power source is lost. If the alternate offsite power source is available, the alternate source breakers close to repower the Class 1E 6.9kV switchgear and the DGs run in a standby mode; if the alternate offsite is unavailable, then the DG output breakers close and the DGs load.

The proposed change will require circuitry modifications in the undervoltage/overvoltage relaying for the 6.9kV and 480V Class 1E switchgear. The effect of these modifications to the DG start logic is to cause the DGs to start only if both the preferred and offsite power sources are unavailable to power the Class 1E busses.

The TS change, associated with proposed circuitry modifications to the DG start logic, is to remove two start signals from TS surveillance 4.8.1.1.2. TS 4.8.1.1.2a.4 provides the start signals that can be used to start the DGs for the monthly surveillance testing. Six alternative start signals are currently listed in the CPSES Unit 1 Technical Specifications. Three of these signals, "start-up transformer secondary winding undervoltage", "simulated loss of

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preferred offsite power by itself", and "simulated safeguard bus undervoltage", start the DGs for loss of offsite power. The first two signals would be removed from the surveillance to reflect the proposed circuitry modification. Both of these signals start the DGs on a loss of preferred offsite power to the Class 1E busses. With the proposed modifications, the diesel generators will start only if both the preferred offsite power source and the alternate offsite power source fail to power the safety bus. The proposed deletion of 4.8.1.1.2a.4(b) and 4.8.1.1.2a(c) does not alter any of the assumptions used in the safety analysis because the DGs will still receive a start signal on a dead safeguard bus and the loads will be powered from the DGs within the time required by Technical Specifications. In addition, the licensee has also proposed to modify one of the four remaining start signals to require a DG start on loss of offsite power in conjunction with a safety injection actuation test signal, vice a loss of preferred offsite power in conjunction with a safety injection actuation test signal.

Based on our review of the licensee's submittal, the staff concludes that this Technical Specification change will not impact the safe operation of the plant, and is therefore acceptable.

3.0 STATE CONSULTATION

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

4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes surveillance requirements. The NRC 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 (56 FR 4873). 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.

5.0 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: T. Bergman, PDIV-2/NRR

Date: October 4, 1991