

Docket



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

April 15, 1991

Docket Nos. 50-498
and 50-499

Mr. Donald P. Hall
Group Vice-President, Nuclear
Houston Lighting & Power Company
P. O. Box 1700
Houston, Texas 77251

Dear Mr. Hall:

SUBJECT: ISSUANCE OF AMENDMENT NOS. 23 AND 13 TO FACILITY OPERATING
LICENSE NOS. NPF-76 AND NPF-80 - SOUTH TEXAS PROJECT, UNITS 1
AND 2 (TAC NOS. 77716, 77717, 77718, 77719, 77720, AND 77721)

The Commission has issued the enclosed Amendment Nos. 23 and 13 to Facility Operating License Nos. NPF-76 and NPF-80 for the South Texas Project, Units 1 and 2. The amendments consist of changes to the Technical Specifications (TSs) in response to your three applications dated August 22, 1990 (letters ST-HL-AE-3542, -3543, and -3544).

The amendments change the Appendix A Technical Specifications by eliminating the requirement to shut down the plant in the event that one of four channels is inoperable in the post-accident monitoring instrumentation for the steam generator level narrow-range, containment pressure, and steamline pressure channels.

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

On March 4, 1991, the Commission issued Amendment Nos. 21 and 11 to Facility Operating License Nos. NPF-76 and NPF-80 for the South Texas Project, Units 1 and 2. The amendments consisted of changes to the TSs by revising TS 4.0.2 and its associated Bases to modify the existing surveillance interval extension

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CP-1

April 15, 1991

provision as provided by Generic Letter 89-14. TS page B 3/4 0-4 contained a typographical error in the identification of Unit No./Amendment No. The correct TS page is enclosed. The corresponding overleaf page is also provided to maintain document completeness.

Sincerely,

Original Signed By

George F. Dick, Jr., Project Manager
Project Directorate IV-2
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

Enclosures:

- 1. Amendment No. 23 to NPF-76
- 2. Amendment No. 13 to NPF-80
- 3. Safety Evaluation
- 4. TS Pages B 3/4 0-3
and B 3/4 0-4

cc w/enclosures:
See next page

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GDick (2)	AHowell, Region IV
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*For previous concurrences see attached ORC

OFC	: PDIV-2/LA	: PDIV-2/PE	: SICB:BC*	: PDIV-2/PM	: OGC	: PDIV-2/(A)D
NAME	: EPeyton	: TBergman: jc	: SNewberry	: GDick	: CBachmann	: GDick
DATE	: 4/3/91	: 4/4/91	: 03/30/91	: 4/04/91	: 4/15/91	: 4/11/91

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Document Name: STP 1&2 AMEND/77716 THRU 77721

Docket Nos. 50-498
and 50-499

Mr. Donald P. Hall
Group Vice-President, Nuclear
Houston Lighting & Power Company
P. O. Box 1700
Houston, Texas 77251

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Dear Mr. Hall:

SUBJECT: ISSUANCE OF AMENDMENT NOS. AND TO FACILITY OPERATING
LICENSE NOS. NPF-76 AND NPF-80 - SOUTH TEXAS PROJECT, UNITS 1
AND 2 (TAC NOS. 77716, 77717, 77718, 77719, 77720, AND 77721)

The Commission has issued the enclosed Amendment Nos. and to Facility
Operating License Nos. NPF-76 and NPF-80 for the South Texas Project, Units 1
and 2. The amendments consist of changes to the Technical Specifications (TSs)
in response to your three applications dated August 22, 1990 (letters ST-
HL-AE-3542, -3543, and -3544).

The amendments change the Appendix A Technical Specifications by eliminating
the requirement to shut down the plant in the event that one of four channels
is inoperable in the post-accident monitoring instrumentation for the steam
generator level narrow-range, containment pressure, and steamline pressure
channels.

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

Sincerely,

George F. Dick, Jr., Project Manager
Project Directorate IV-2
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. to NPF-76
2. Amendment No. to NPF-80
3. Safety Evaluation

cc w/enclosures:
See next page

OFC	: PDIV-2/LA	: PDIV-2/PE	: SICB:BC <i>with comment</i>	: PDIV-2/PM	: <i>OGC</i>	: PDIV-2/(A)D
NAME	: EPeyton	: TBergman: jc	: SNewberry	: GDick	: RBachmann	: GDick
DATE	: 3/21/91	: 3/21/91	: 3/30/91	: / /91	: 4/5/91	: / /91

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

HOUSTON LIGHTING & POWER COMPANY
CITY PUBLIC SERVICE BOARD OF SAN ANTONIO
CENTRAL POWER AND LIGHT COMPANY
CITY OF AUSTIN, TEXAS
DOCKET NO. 50-498
SOUTH TEXAS PROJECT, UNIT 1
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 23
License No. NPF-76

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The three applications for amendment by Houston Lighting & Power Company* (HL&P) acting on behalf of itself and for the City Public Service Board of San Antonio (CPS), Central Power and Light Company (CPL), and City of Austin, Texas (COA) (the licensees) dated August 22, 1990, comply 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.

*Houston Lighting & Power Company is authorized to act for the City Public Service Board of San Antonio, Central Power and Light Company and City of Austin, Texas and has exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

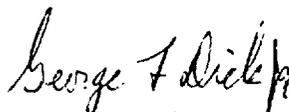
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 2.C.(2) of Facility Operating License No. NPF-76 is hereby amended to read as follows:

2. Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 23 , and the Environmental Protection Plan contained in Appendix B, 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 its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



George F. Dick, Jr., Acting 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: April 15, 1991



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

HOUSTON LIGHTING & POWER COMPANY
CITY PUBLIC SERVICE BOARD OF SAN ANTONIO
CENTRAL POWER AND LIGHT COMPANY
CITY OF AUSTIN, TEXAS
DOCKET NO. 50-499
SOUTH TEXAS PROJECT, UNIT 2
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 13
License No. NPF-80

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The three applications for amendment by Houston Lighting & Power Company* (HL&P) acting on behalf of itself and for the City Public Service Board of San Antonio (CPS), Central Power and Light Company (CPL), and City of Austin, Texas (COA) (the licensees) dated August 22, 1990, comply 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.

*Houston Lighting & Power Company is authorized to act for the City Public Service Board of San Antonio, Central Power and Light Company and City of Austin, Texas and has exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

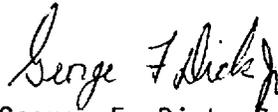
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 2.C.(2) of Facility Operating License No. NPF-80 is hereby amended to read as follows:

2. Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 13 , and the Environmental Protection Plan contained in Appendix B, 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 its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



George F. Dick, Jr., Acting 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: April 15, 1991

ATTACHMENT TO LICENSE AMENDMENT NOS. 23 AND 13
FACILITY OPERATING LICENSE NOS. NPF-76 AND NPF-80
DOCKET NOS. 50-498 AND 50-499

Replace the following page of the Appendix A Technical Specifications with the attached page. The revised page is identified by Amendment number and contain vertical lines indicating the areas of change. The corresponding overleaf page is also provided to maintain document completeness.

REMOVE

3/4 3-68

INSERT

3/4 3-68

INSTRUMENTATION

ACCIDENT MONITORING INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.3.6 The accident monitoring instrumentation channels shown in Table 3.3-10 shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3.

ACTION:

- a. As shown in Table 3.3-10.
- b. The provisions of Specification 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.3.6 Each accident monitoring instrumentation channel shall be demonstrated OPERABLE by performance of the CHANNEL CHECK and CHANNEL CALIBRATION at the frequencies shown in Table 4.3-7.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NOS. 23 AND 13 TO

FACILITY OPERATING LICENSE NOS. NPF-76 AND NPF-80

HOUSTON LIGHTING & POWER COMPANY

CITY PUBLIC SERVICE BOARD OF SAN ANTONIO

CENTRAL POWER AND LIGHT COMPANY

CITY OF AUSTIN, TEXAS

DOCKET NOS. 50-498 AND 50-499

SOUTH TEXAS PROJECT, UNITS 1 AND 2

1.0 INTRODUCTION

By three applications dated August 22, 1990 (ST-HL-AE-3542, -3543, and -3544), Houston Lighting & Power Company, et. al., (the licensee) requested changes to the Technical Specifications (Appendix A to Facility Operating License Nos. NPF-76 and NPF-80) for the South Texas Project, Units 1 and 2. The proposed changes would eliminate the requirement to shut down the plant in the event that one of four channels is inoperable in the post accident monitoring instrumentation for the steam generator level narrow-range, containment pressure, and steamline pressure channels.

2.0 DISCUSSION

The licensee's current Technical Specification (TS) requires plant shutdown if one-out-of-four steam generator level narrow-range, containment pressure, or steamline pressure instrumentation channels is inoperable and cannot be restored in 90 days. The TS also requires the plant to shut down if two-of-four channels are inoperable and cannot be restored within 31 days, three-of-four channels are inoperable and cannot be restored within 7 days, and four channels are inoperable and cannot be restored within 48 hours.

The proposed TS change would revise Table 3.3-10 to eliminate the shutdown requirement for the loss of one channel of steam generator level narrow-range, containment pressure, or steamline pressure instrumentation. The TS requirements for shutdown in the event of more than one inoperable channel for each parameter remain unchanged.

3.0 EVALUATION

Steam Generator Level Narrow Range

Steam generator level narrow-range is a plant specific Type A parameter for post-accident monitoring instrumentation as defined in accordance with Regulatory Guide (RG) 1.97. The RG recommends two redundant channels of instrumentation per steam generator. South Texas Project 1 (STP-1) and South Texas Project 2 (STP-2) each have four redundant channels of instrumentation per steam generator for this parameter.

Since steam generator level narrow-range is a plant specific RG 1.97 parameter, it is not included in the accident monitoring section of the Westinghouse Standard Technical Specification (STS). Further, a comparison of the licensee's proposed TS change with similar instrumentation in the STS indicates that the STP-1 and STP-2 have a higher degree of redundancy than is included in the STS.

The proposed change, while similar to STS, still has an additional level of redundancy and therefore an additional margin of safety. Implementation of the proposed change does not involve modification of any existing equipment, system, or components.

Based on the review of the licensee's submittal, the staff concludes that this Technical Specification change will maintain sufficient narrow-range steam generator water level accident monitoring instrumentation and will not impact the safe operation of the plant, and is therefore acceptable.

Containment Pressure

Containment pressure is a category 1 parameter for post-accident monitoring instrumentation as defined in accordance with RG 1.97. The RG recommends two redundant channels of instrumentation. STP-1 and STP-2 each have four redundant channels of instrumentation for this parameter.

Further, a comparison of the licensee's proposed TS change with Table 3.3-10 of the existing STS indicates that STP-1 and STP-2 have a higher degree of redundancy than is included in the STS. Table 3.3-10 of the STS requires two channels for accident monitoring instrumentation; the licensee has provided an additional level of redundancy beyond that of the STS.

The proposed change, while similar to STS, still has an additional level of redundancy and therefore an additional margin of safety. Implementation of the proposed change does not involve modification of any existing equipment, system, or components.

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.

Steamline Pressure

Steamline pressure is a category 1 parameter for post-accident monitoring instrumentation as defined in accordance with RG 1.97. The RG recommends two redundant channels of instrumentation. STP-1 and STP-2 each have four redundant channels of instrumentation for this parameter.

Further, a comparison of the licensee's proposed TS change with Table 3.3-10 of the existing STS indicates that STP-1 and STP-2 have a higher degree of redundancy than is included in the STS. Table 3.3-10 of the STS has only two channels for accident monitoring instrumentation; the licensee has provided an additional level of redundancy beyond that of the STS.

The proposed change, while similar to STS, still has an additional level of redundancy and therefore an additional margin of safety. Implementation of the proposed change does not involve modification of any existing equipment, system, or components.

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.

4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Texas 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 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 proposed findings that the amendments involve no significant hazards consideration, and there has been no public comment on such findings (55 FR 45883 and 55 FR 45884). 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 amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: D. Nguyen

Date: April 15, 1991

3.4.0 APPLICABILITY

BASES (Continued)

The time limits of Specification 3.0.3 allow 37 hours for the plant to be in the COLD SHUTDOWN MODE when a shutdown is required during the POWER MODE of operation. If the plant is in a lower MODE of operation when a shutdown is required, the time limit for reaching the next lower MODE of operation applies. However, if a lower MODE of operation is reached in less time than allowed, the total allowable time to reach COLD SHUTDOWN, or other applicable MODE, is not reduced. For example, if HOT STANDBY is reached in 2 hours, the time allowed to reach HOT SHUTDOWN is the next 11 hours because the total time to reach HOT SHUTDOWN is not reduced from the allowable limit of 13 hours. Therefore, if remedial measures are completed that would permit a return to POWER operation, a penalty is not incurred by having to reach a lower MODE of operation in less than the total time allowed.

The same principle applies with regard to the allowable outage time limits of the ACTION requirements, if compliance with the ACTION requirements for one specification results in entry into a MODE or condition of operation for another specification in which the requirements of the Limiting Condition for Operation are not met. If the new specification becomes applicable in less time than specified, the difference may be added to the allowable outage time limits of the second specification. However, the allowable outage time limits of ACTION requirements for a higher MODE of operation may not be used to extend the allowable outage time that is applicable when a Limiting Condition for Operation is not met in a lower MODE of operation.

The shutdown requirements of Specification 3.0.3 do not apply in MODES 5 and 6, because the ACTION requirements of individual specifications define the remedial measures to be taken.

Specification 3.0.4 establishes limitations on MODE changes when a Limiting Condition for Operation is not met. It precludes placing the facility in a higher MODE of operation when the requirements for a Limiting Condition for Operation are not met and continued noncompliance to these conditions would result in a shutdown to comply with the ACTION requirements if a change in MODES were permitted. The purpose of this specification is to ensure that facility operation is not initiated or that higher MODES of operation are not entered when corrective action is being taken to obtain compliance with a specification by restoring equipment to OPERABLE status or parameters to specified limits. Compliance with ACTION requirements that permit continued operation of the facility for an unlimited period of time provides an acceptable level of safety for continued operation without regard to the status of the plant before or after a MODE change. Therefore, in this case, entry into an OPERATIONAL MODE or other specified condition may be made in accordance with the provisions of the ACTION requirements. The provisions of this specification should not, however, be interpreted as endorsing the failure to exercise good practice in restoring systems or components to OPERABLE status before plant startup.