

March 19, 1993

Docket Nos. 50-498
and 50-499

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

SUBJECT: ISSUANCE OF AMENDMENT NOS. 49 AND 38 TO FACILITY OPERATING
LICENSE NOS. NPF-76 AND NPF-80 - SOUTH TEXAS PROJECT, UNITS 1 AND 2
(TAC NOS. M84575 AND M84576)

The Commission has issued the enclosed Amendment Nos. 49 and 38 to Facility Operating License Nos. NPF-76 and NPF-80 for the South Texas Project, Units 1 and 2. The amendments consists of changes to the Technical Specifications (TSs) in response to your application dated August 30, 1991 (ST-HL-ae-3842) as superseded by application dated June 2, 1992 (ST-HL-AE-4049).

The amendments change the Appendix A Technical Specifications by changing the action statements and surveillance requirements of TS 3/4.3.3.7 to reflect changes in the toxic gas monitors and number of logic channels for Unit 2. TS changes which reflected comparable changes for Unit 1 were approved in Amendments 45 (Unit 1) and 34 (Unit 2), issued on November 5, 1992.

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

William D. Reckley, Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 49 to NPF-76
2. Amendment No. 38 to NPF-80
3. Safety Evaluation

cc w/enclosures:
See next page

OFFICE	PDIV-2/LA	PDIV-2/PM	HIC	OGC	PDIV-2
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DATE	2/17/93	2/18/93	2/24/93	2/13/93	3/12/93

Document Name: B:\M84575.WR

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Mr. Donald P. Hall

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March 19, 1993

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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. 49
License No. NPF-76

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application 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 June 2, 1992, 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.

* 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. 49, 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 and is to be implemented not later than the completion of the third refueling outage for Unit 2.

FOR THE NUCLEAR REGULATORY COMMISSION



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: March 19, 1993



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. 38
License No. NPF-80

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application 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 June 2, 1992, 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.

* 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.

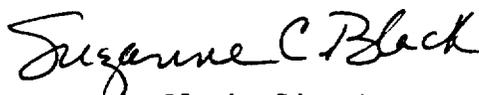
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 2.C.(2) of Facility Operating License No. NPF-80 is hereby amended to read as follows:

2. Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 38, 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 and is to be implemented not later than the completion of the third refueling outage for Unit 2.

FOR THE NUCLEAR REGULATORY COMMISSION



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: March 19, 1993

ATTACHMENT TO LICENSE AMENDMENT NOS. 49 AND 38

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 contains vertical lines indicating the areas of change. The corresponding overleaf page is also provided to maintain document completeness.

REMOVE

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INSERT

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INSTRUMENTATION

CHEMICAL DETECTION SYSTEMS

LIMITING CONDITION FOR OPERATION

3.3.3.7 Three independent Chemical Detection Systems of each Unit shall be OPERABLE with their Alarm/Trip Setpoints adjusted to actuate at the following concentrations:

- a. Vinyl Acetate ≤ 10 ppm
- b. Anhydrous Ammonia/
Ammonium Hydroxide/ ≤ 25 ppm

APPLICABILITY: All MODES.*

ACTION:

- a. With one Chemical Detection System inoperable, restore the inoperable system to OPERABLE status within 7 days or place the affected channel in its tripped condition.**
- b. With two or more Chemical Detection Systems inoperable, within 1 hour initiate and maintain operation of the Control Room Emergency Ventilation System in the recirculation mode of operation.

SURVEILLANCE REQUIREMENTS

4.3.3.7 Each Chemical Detection System shall be demonstrated OPERABLE by performance of a CHANNEL CHECK at least once per 12 hours, an ANALOG and/or DIGITAL CHANNEL OPERATIONAL TEST at least once per 31 days and a CHANNEL CALIBRATION at least once per 18 months.

*In MODES 5 and 6, if it becomes necessary to place the Control Room Emergency Ventilation System in the recirculation mode of operation and if other Technical Specifications (3.7.7 "Control Room Makeup and Cleanup Filtration System" and/or Table 3.3-3, Item 10 "Control Room Ventilation") require placing the system in the recirculation and makeup filtration mode, then in this situation, place the system in the filtered recirculation mode only.

**The inoperable system may be bypassed for up to 4 hours for surveillance testing of the other systems per Specification 4.3.3.7.

INSTRUMENTATION

3.3.3.8 (This specification number is not used.)



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NOS. 49 AND 38 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 application dated August 30, 1991 (ST-HL-AE-3842) as superseded by application dated June 2, 1992 (ST-HL-AE-4049), 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 revision would change the logic for the toxic gas monitors in concert with replacing the two original toxic gas monitoring channels with three state-of-the-art toxic gas monitoring channels. The actuation logic would be revised to provide a two-out-of-three (2/3) logic for a high toxic gas actuation signal and monitor failure actuation logic, as opposed to the current one-out-of-two (1/2) and two-out-of-two (2/2) logic, respectively. The submittal also proposed that an inoperable channel be bypassed for up to 4 hours for surveillance testing. The toxic gas monitors and their associated logic actuate the heating, ventilation, and air conditioning (HVAC) envelope for operator protection if there is a release of vinyl acetate, anhydrous ammonia, or ammonium hydroxide.

The June 2, 1992, letter also requested that an interim Technical Specification be approved for the Unit 1 refueling outage and a final Technical Specification be approved upon modification of the toxic gas monitor system during the upcoming Unit 2 refueling outage. This allowed time for the appropriate hardware and procedural changes to be made for each refueling outage. The interim TS was approved by amendments 45 (Unit 1) and 34 (Unit 2) on November 5, 1992. The Unit 1 outage was completed on January 1, 1993. This Safety Evaluation supports the changes for Unit 2 and approval of the final TS 3.3.3.7.

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2.0 EVALUATION

In reviewing the original design and logic for the toxic gas monitoring system, the staff reported in Section 6.4 of its Safety Evaluation (Safety Evaluation Report related to the Operation of South Texas Project, Units 1 and 2, NUREG-0781) that during a postulated hazardous chemical release the detection, alarm, and automatic isolation capabilities at South Texas will ensure that control room personnel can don breathing apparatus before the toxic gas concentration in the control room could exceed the applicable toxicity limits.

The licensee proposes to add a third monitor channel and change the actuation from one-of-two-logic to a two-of-three logic. New state-of-the art hardware will be installed for the new channel and the existing channels will be replaced to ensure longevity and adequate spare parts supply. The loss of power/malfunction actuation will also be changed from a one-of-two logic to a two-of-three logic. As stated in the FSAR, the equipment has not been qualified for seismic conditions.

The three monitor channels are powered from three non-safety uninterruptible power supplies (UPS). The associated batteries for two of the UPSs receive power from chargers that are supplied power from motor control centers (MCC) associated with the Class IE Emergency Diesel Generators (EDG). The other UPS associated battery is supplied power from two chargers one of which receives power from a MCC associated with another EDG. This diversity of power supply provides increased reliability.

Both the monitor and loss-of-power actuation logic provide improved operability and reliability goals for the system by reducing spurious actuation. The licensee has estimated that, based on statistical analyses, the decrease in the probability of actuation resulting from the proposed modification upon demand is small (0.002); however, there will be a significant decrease in probability of spurious actuation. Allowing maintenance of a bypassed channel will reduce the possibility of spurious actuation into the recirculation mode which is less conservative with regard to responding to a radiological accident.

The existing Technical Specification (TS) 3.3.3.7 action statement for an inoperable chemical detection system (toxic gas monitoring) requires the system be restored to operable within 7 days or within the next 6 hours initiate and maintain operation of the control room emergency ventilation system in the recirculation mode of operation. The action statement also states if two chemical detection system channels are inoperable, within 1 hour initiate and maintain operation of the control room emergency ventilation system in the recirculation mode of operation.

The proposed TS action statement for an inoperable chemical detection system channel requires the system channel be restored to operable within 7 days or place the affected channel in its tripped condition. If two or more chemical detection system channels are inoperable, the proposed action statement is the

same as the present action statement. The only change to the surveillance requirements is that the word digital has been added to the analog channel operational test.

The staff finds the toxic monitor system modification, the change to the TS 3.3.3.7 Limiting Condition for Operation, and Surveillance Requirement 4.3.3.7 acceptable. The modification should improve the reliability of the system and decrease spurious actuations. The TS changes will provide operability of the system consistent with the original TS; however, it also allows for greater flexibility by allowing operation with an additional channel out-of-service because of the addition of the third channel.

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 a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and 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 (57 FR 45643). 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: F. Paulitz

Date: March 19, 1993