August 18, 1992

Docket No. 50-498

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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 NO. 40 TO FACILITY OPERATING LICENSE NO. NPF-76 - SOUTH TEXAS PROJECT, UNIT 1 (TAC NO. M83550)

The Commission has issued the enclosed Amendment No. 40 to Facility Operating License No. NPF-76 for the South Texas Project, Unit 1. The amendment consists of changes to the Technical Specifications (TSs) in response to your application dated May 26, 1992.

The amendment changes the Appendix A Technical Specifications by providing a one-time extension of the 40-month inspection interval for the Unit 1 turbine valves to approximately 52 months.

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

Sincerely,

Original Signed by William D. Reckley
for
George F. Dick, Senior Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Enclosures:
1. Amendment No. 40 to NPF-76
2. Safety Evaluation

cc w/enclosures:
See next page

Office	PDIV-2/LA	PDIV-2/PM	PDIV-2/PM	OGC	SPLB	PDIV-2/D
Name	EPeyton	WReckley:nb	GDick		CMcCracken	SBlack
Date	7/16/92	7/21/92	7/21/92	7/27/92	7/22/92	8/17/92

Document Name: M83550.WR
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cc w/enclosures:
Mr. J. Tapia
Senior Resident Inspector
U.S. Nuclear Regulatory Commission
P. O. Box 910
Bay City, Texas 77414

Mr. J. C. Lanier/M. B. Lee
City of Austin
Electric Utility Department
P. O. Box 1088
Austin, Texas 78767

Mr. K. J. Fiedler
Mr. M. T. Hardt
City Public Service Board
P. O. Box 1771
San Antonio, Texas 78296

Mr. D. E. Ward
Mr. T. M. Puckett
Central Power and Light Company
P. O. Box 2121
Corpus Christi, Texas 78403

INPO
Records Center
1100 Circle 75 Parkway
Atlanta, Georgia 30339-3064

Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

Mr. Joseph M. Hendrie
50 Bellport Lane
Bellport, New York 11713

Judge, Matagorda County
Matagorda County Courthouse
1700 Seventh Street
Bay City, Texas 77414

Mr. William J. Jump
Manager, Nuclear Licensing
Houston Lighting and Power Company
P. O. Box 289
Wadsworth, Texas 77483

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

Licensing Representative
Houston Lighting and Power Company
Suite 610
Three Metro Center
Bethesda, Maryland 20814

Bureau of Radiation Control
State of Texas
1101 West 49th Street
Austin, Texas 78756

Rufus S. Scott
Associate General Counsel
Houston Lighting and Power Company
P. O. Box 61867
Houston, Texas 77208

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. 40
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 May 26, 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. 40, 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 within five days of its 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: August 18, 1992

ATTACHMENT TO LICENSE AMENDMENT NO. 40

FACILITY OPERATING LICENSE NO. NPF-76

DOCKET NO. 50-498

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.

REMOVE	INSERT
3/4 3-89	3/4 3-89

INSTRUMENTATION

3/4.3.4 TURBINE OVERSPEED PROTECTION

LIMITING CONDITION FOR OPERATION

3.3.4 At least one Turbine Overspeed Protection System shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3.

ACTION:

a. With one stop valve or one governor valve per high pressure turbine steam line inoperable and/or with one reheat stop valve or one reheat intercept valve per low pressure turbine steam line inoperable, restore the inoperable valve(s) to OPERABLE status within 72 hours, or close at least one valve in the affected steam line(s) or isolate the turbine from the steam supply within the next 6 hours.

b. With the above required Turbine Overspeed Protection System otherwise inoperable, within 6 hours isolate the turbine from the steam supply.

SURVEILLANCE REQUIREMENTS

4.3.4.1 The provisions of Specification 4.0.4 are not applicable.

4.3.4.2 The above required Turbine Overspeed Protection System shall be demonstrated OPERABLE:

a. At least once per 31 days in MODES 1 and 2 when the main turbine is operating by cycling each of the following valves through at least one complete cycle from the running position:

   1) Four high pressure turbine stop valves,

   2) Four high pressure turbine governor valves,

   3) Six low pressure turbine reheat stop valves, and

   4) Six low pressure turbine reheat intercept valves.

b. At least once per 31 days in MODES 1 and 2 when the main turbine is operating by direct observation of the movement of each of the above valves through one complete cycle from the running position,

c. At least once per 18 months by performance of a CHANNEL CALIBRATION on the Turbine Overspeed Protection Systems, and

d. At least once per 40 months by disassembling at least one of each of the above valves and performing a visual and surface inspection of valve seats, disks, and stems and verifying no unacceptable flaws or excessive corrosion. If unacceptable flaws or excessive corrosion are found, all other valves of that type shall be inspected.*

*Disassembly and inspection of the low pressure turbine reheat intercept valves are not required prior to the end of the first 40 month interval.

Unit 1 valves will be disassembled and inspected in the Unit 1 fifth refueling outage, following a one-time extension of the inspection interval from 40 months (50 months with the 25% grace period) to approximately 52 months.

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 40 TO

FACILITY OPERATING LICENSE NO. NPF-76

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

1.0 INTRODUCTION

By application dated May 26, 1992, Houston Lighting & Power Company, et. al., (the licensee) requested changes to the Technical Specifications (Appendix A to Facility Operating License No. NPF-76) for South Texas Project, Unit 1. The proposed change is a one-time extension of the inspection interval for the turbine valves listed in Technical Specification (TS) 3/4.3.4, "Turbine Overspeed Protection." TS 4.3.4.2.d currently requires inspection by disassembly of at least one valve per category at least once per 40 months. The revised TS would allow a one-time extension for Unit 1 until the fifth refueling outage which would constitute an interval of approximately 52 months. Application of the allowable 25 percent extension of TS 4.0.2 would result in an inspection interval of 50 months.

2.0 EVALUATION

The guidelines in the Standard Review Plan (SRP), Section 10.2 specify that at approximately 3¼-year intervals, during refueling or maintenance shutdowns coinciding with the inservice schedule required by Section XI of the ASME Code, examinations should be conducted on specifically identified turbine valves. The STP-1 TS Section 4.3.4.2 states that the Turbine Overspeed Protection System shall be demonstrated operable by, among other steps, disassembling at least one of certain specified valves at least once per 40 months. The purpose of the disassembly and inspection is to ensure that the steam admission valves will not fail to seat as a result of internal flaws or corrosion.

The NRC acceptance criteria for a favorably oriented turbine such as the one at STP-1 is that the total probability for turbine missile generation must be less than 1.0E-4 per year at the time the turbine is brought on line.

Once the turbine is on line, if the probability exceeds 1.0E-4 per year but remains below 1.0E-3 per year, it may be kept in service until the next scheduled outage, at which time the licensee must take action to reduce the probability to meet the 1.0E-4 per year limit before returning the turbine to service.

The licensee has calculated a probability of turbine missile generation of 2E-4 per year for operation at the beginning of the fifth refueling outage. Further, although valve seat inspections were not performed, two high pressure stop and two governor turbine valves were disassembled and parts replaced during the second refueling outage, which ended in June 1990. The high pressure turbine stop valve seats were also replaced. Therefore, there is adequate assurance that the valves will operate properly and that an acceptable margin of safety will be retained.

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 28202). 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: George F. Dick, NRR/PDIV-2
Steven R. Jones, NRR/SPLB

Date: August 18, 1992