

The Light company

Houston Lighting & Power

South Texas Project Electric Generating Station P. O. Box 289 Wadsworth, Texas 77483

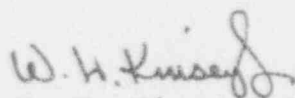
April 7, 1993
ST-HL-AE-4405
File No.: G26
10CFR50.73

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

South Texas Project
Unit 2
Docket No. STN 50-499
Licensee Event Report 93-007
Technical Specification Violation due to the
Control Room Envelope HVAC Not in Required Mode of Operation

Pursuant to 10CFR50.73, Houston Lighting & Power (HL&P) submits the attached Unit 2 Licensee Event Report 93-007 regarding a Technical Specification violation due to the Control Room Envelope Heating, Ventilating, and Air Conditioning (HVAC) not in required mode of operation. This event did not have an adverse effect on the health and safety of the public.

If you should have any questions on this matter, please contact Mr. J. M. Pinzon at (512) 972-8027 or me at (512) 972-7921.


W. H. Kinsey, Jr.
Vice President,
Nuclear Generation

JMP/sr

Attachment: LER 93-007 (South Texas, Unit 2)

120160

LER\93089001.U2

Project Manager on Behalf of the Participants in the South Texas Project

9304130226 930407
PDR ADOCK 05000499
S PDR

JE22

Houston Lighting & Power Company
South Texas Project Electric Generating Station

ST-HL-AE-4405
File No.: G26
Page 2

C:

Regional Administrator, Region IV
Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011

Project Manager
U.S. Nuclear Regulatory Commission
Washington, DC 20555

J. I. Tapia
Senior Resident Inspector
c/o U. S. Nuclear Regulatory
Commission
P. O. Box 910
Bay City, TX 77414

J. R. Newman, Esquire
Newman & Holtzinger, P.C., STE 1000
1615 L Street, N.W.
Washington, DC 20036

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

J. C. Lanier/M. B. Lee
City of Austin
Electric Utility Department
721 Barton Springs Road
Austin, TX 78704

K. J. Fiedler/M. T. Hardt
City Public Service
P. O. Box 1771
San Antonio, TX 78296

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

Institute of Nuclear Power
Operations - Records Center
1100 Circle 75 Parkway, #1500
Atlanta, GA 30339-3064

Dr. Joseph M. Hendrie
50 Bellport Lane
Bellport, NY 11713

D. K. Lacker
Bureau of Radiation Control
Texas Department of Health
1100 West 49th Street
Austin, TX 78756-3189

U.S. Nuclear Regulatory Comm.
Attn: Document Control Desk
Washington, D.C. 20555

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)

South Texas, Unit 2

DOCKET NUMBER (2)

05000 499

PAGE (3)

1 OF 04

TITLE (4)

Technical Specification Violation due to the Control Room
Envelope HVAC not in Required Mode of Operation

EVENT DATE (5)

LER NUMBER (6)

REPORT NUMBER (7)

OTHER FACILITIES INVOLVED (8)

MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
03	10	93	93	007	00	04	07	93		05000
										05000

OPERATING
MODE (9)

6

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)

20.402(b)

20.405(c)

50.73(a)(2)(iv)

73.71(b)

POWER
LEVEL (10)

0

20.405(a)(1)(i)

50.36(c)(1)

50.73(a)(2)(v)

73.71(c)

20.405(a)(1)(ii)

50.36(c)(2)

50.73(a)(2)(vii)

OTHER

20.405(a)(1)(iii)

X

50.73(a)(2)(i)

50.73(a)(2)(viii)(A)

(Specify in Abstract
below and in Text, NRC
Form 366A)

20.405(a)(1)(iv)

50.73(a)(2)(ii)

50.73(a)(2)(viii)(B)

20.405(a)(1)(v)

50.73(a)(2)(iii)

50.73(a)(2)(x)

LICENSEE CONTACT FOR THIS LER (12)

NAME

Jairo Pinzon - Senior Engineer

TELEPHONE NUMBER (Include Area Code)

(512) 972-8027

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRRDS

SUPPLEMENTAL REPORT EXPECTED (14)

YES

(If yes, complete EXPECTED SUBMISSION DATE)

X NO

EXPECTED
SUBMISSION
DATE (15)

MONTH DAY YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On March 10, 1993, Unit 2 was in Mode 6 during a refueling outage. At 1312 hours, it was determined that the Control Room Envelope (CRE) Heating, Ventilating, and Air Conditioning (HVAC) system was not in the mode of operation required per Technical Specification 3.7.7a and 3.3.3.7b. The cause of this event was the implementation and use of a computer program for the control of safety related equipment without the formality of procedural reviews and approvals. The contributing causes of this event were the de-sensitization of the Control Room supervision to multiple operability requirements due to the control of pertinent shift documents being maintained outside the controls area and the CRE HVAC system being in the recirculation mode of operation masking the necessity to be in the filtered recirculation mode of operation. Corrective actions include suspending the use of the computer-generated Operability Tracking Log index pending correction of the computer program, maintaining a manually updated index for the Operability Tracking Log within the controls area, and providing training reinforcing the different modes of operation for the CRE HVAC system including the Technical Specification requirements for each mode.

LER\93089001.02

REQUIRED NUMBER OF DIGITS/CHARACTERS
FOR EACH BLOCK

BLOCK NUMBER	NUMBER OF DIGITS/CHARACTERS	TITLE
1	UP TO 46	FACILITY NAME
2	8 TOTAL 3 IN ADDITION TO 05000	DOCKET NUMBER
3	VARIES	PAGE NUMBER
4	UP TO 76	TITLE
5	6 TOTAL 2 PER BLOCK	EVENT DATE
6	7 TOTAL 2 FOR YEAR 3 FOR SEQUENTIAL NUMBER 2 FOR REVISION NUMBER	LER NUMBER
7	6 TOTAL 2 PER BLOCK	REPORT DATE
8	UP TO 18 - FACILITY NAME 8 TOTAL - DOCKET NUMBER 3 IN ADDITION TO 05000	OTHER FACILITIES INVOLVED
9	1	OPERATING MODE
10	3	POWER LEVEL
11	1 CHECK BOX THAT APPLIES	REQUIREMENTS OF 10 CFR
12	UP TO 50 FOR NAME 14 FOR TELEPHONE	LICENSEE CONTACT
13	CAUSE VARIES 2 FOR SYSTEM 4 FOR COMPONENT 4 FOR MANUFACTURER NPRDS VARIES	EACH COMPONENT FAILURE
14	1 CHECK BOX THAT APPLIES	SUPPLEMENTAL REPORT EXPECTED
15	6 TOTAL 2 PER BLOCK	EXPECTED SUBMISSION DATE

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)		DOCKET NUMBER (2)		LER NUMBER (6)			PAGE (3)
South Texas, Unit 2		05000 499		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	OF 02 04
				9 3	- 0 0 7 -	0 0	

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

DESCRIPTION OF EVENT

On March 10, 1993, Unit 2 was in Mode 6 during a refueling outage. At 1312 hours, it was determined that the Control Room Envelope (CRE) Heating, Ventilating, and Air Conditioning (HVAC) system was not in the mode of operation required per Technical Specification 3.7.7a and 3.3.3.7b.

On March 3, 1993, at 0130 hours, the Essential Cooling Water (ECW) system Train B was declared inoperable for planned maintenance. At 0921 hours, the Train B of the CRE HVAC system was declared inoperable for planned outage work and the inoperability time was established to coincide with the ECW inoperability. This placed Unit 2 in a seven (7) day Limiting Condition for Operation (LCO) in accordance with Technical Specification 3.7.7a. The CRE HVAC Train B was entered in the Operability Tracking Log (OTL), with an action date of March 10, 1993, and time of 0130 hours. At 1415 hours, on March 3, 1993, one toxic gas monitor was taken out of service to accomplish a planned modification and an entry was made in the OTL to track this LCO. This placed the Unit 2 in a separate seven (7) day LCO, to be in the recirculation mode of operation for the CRE HVAC in accordance with Technical Specification 3.3.3.7a. On March 5, 1993, at 1137 hours, the remaining toxic gas monitor was taken out of service to complete the same modification and the OTL was updated. Unit 2 was placed in a one hour LCO to be in HVAC recirculation in accordance with Technical Specification 3.3.3.7b. The CRE HVAC was placed in the recirculation mode of operation.

The on-coming operations shift crew on the night of March 9, 1993, conducted shift turnover using an uncontrolled computer printout of the Operability Tracking Log (OTL) index. This computer printout was generated by a program which was previously successfully implemented during the Unit 1 refueling outage. The use and maintenance of this computer program was the responsibility of a group outside the control area. This printout indicated that no Technical Specification action statements were required to be performed during this shift. Because of the plant status and the amount of activity associated with the refueling outage, the Operability Tracking Log was being maintained outside of the control area. This effectively reduced the control over the OTL by operations shift supervision. As a result, operations crew supervisors were not fully sensitive to the multiple LCO requirements associated with the CRE HVAC system.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
South Texas, Unit 2	05000 499	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	03 OF 04
		9 3	- 0 0 7 -	0 0	

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

DESCRIPTION OF EVENT (Con't)

The Operations crew noted that the CRE HVAC system was in the recirculation mode (for the Toxic Gas Monitor inoperability) at turn-over. This effectively masked the requirement to be in filtered recirculation per the combination of LCO 3.3.3.7b and 3.7.7a at 0130 hours.

At 1312 hours, on March 10, 1993, with the toxic gas monitors still inoperable and Train B CRE HVAC inoperable for greater than seven days, it was recognized by Operations personnel that the CRE HVAC was not in the correct mode of operation for current plant conditions. Train A & C of the CRE HVAC were placed in the filtered recirculation mode of operation to comply with Technical Specification 3.7.7a and 3.3.3.7b. The NRC was notified on March 11, 1993, at 1124 hours.

CAUSE OF EVENT

The cause of this event was the implementation and use of a computer program for the control of safety related equipment without the formality of procedural reviews and approvals. A contributing cause was the de-sensitization of Control Room supervision to multiple operability requirements due to the control of pertinent shift documents being maintained outside the controls area and not under the direct control of the Unit Supervisor. Additionally, the CRE HVAC system was in the recirculation mode of operation masking the necessity to place the CRE HVAC in the filtered recirculation mode of operation as required by Technical Specifications.

ANALYSIS OF EVENT

Technical Specification violations are reportable pursuant to 10CFR50.73(a)(2)(i)(B). The CRE HVAC system operating in the recirculation mode as described in the Updated Final Safety Analysis Report (UFSAR) section 9.4 does not allow outside air to be admitted into the Control Room Envelope. No fire or toxic gas events were reported during the time the CRE HVAC system was not in the filtered recirculation mode of operation as required by Technical Specifications. Therefore, this event did not pose a safety concern for the Control Room operating personnel. There were no adverse radiological or safety consequences as a result of this event.

NRC FORM 365A <small>(5-92)</small>		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95	
LICENSEE EVENT REPORT (LER) TEXT CONTINUATION				ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 10.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.	
FACILITY NAME (1)		DOCKET NUMBER (2)		LER NUMBER (6)	
South Texas, Unit 2		05000 499		YEAR	SEQUENTIAL NUMBER
				REVISION NUMBER	PAGE (3)
				9 3	0 0 7
				0 0	04 OF 04

TEXT (If more space is required, use additional copies of NRC Form 365A) (17)

CORRECTIVE ACTIONS

1. The use of the computer-generated OTL index was suspended pending correction of the computer program.
2. A manually updated index for the OTL is being maintained within the controls area.
3. Licensed Operator Regualification Training will reinforce the different modes of operation for the CRE HVAC system including the Technical Specification requirements for each mode. This training will be completed by July 9, 1993.
4. A review will be performed to determine if other uncontrolled operations-related computer programs exist which may cause a similar problem. This review will be completed by May 7, 1993.

ADDITIONAL INFORMATION

There have been no previous events involving a failure to place the CRE HVAC system into a required mode due to the use of a inaccurate computer program.