

The Light company

Houston Lighting & Power South Texas Project Electric Generating Station P. O. Box 289 Wadsworth, Texas 77483

March 16, 1990

ST-HL-AE-3403

File No.: G26

10CFR50.73

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

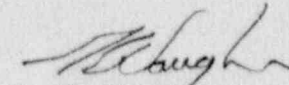
South Texas Project Electric Generating Station
Unit 2

Docket No. STN 50-499

Licensee Event Report 90-003 Regarding an Inoperable
Fuel Handling Building Exhaust Filter Due to a Wiring Error

Pursuant to 10CFR50.73, Houston Lighting & Power Company (HL&P) submits the attached Licensee Event Report (LER 90-003) regarding an inoperable fuel handling building exhaust filter due to a wiring error. This event did not have any adverse impact on the health and safety of the public.

If you should have any questions on this matter, please contact Mr. C. A. Ayala at (512) 972-8628 or myself at (512) 972-7921.



G. E. Vaughn
Vice President
Nuclear Operations

BEM/n1

Attachment: LER 90-003 (South Texas, Unit 2)

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PDR ADOCK 05000499
S PDC

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A Subsidiary of Houston Industries Incorporated

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**Houston Lighting & Power Company
South Texas Project Electric Generating Station**

ST-HL-AE- 3403
File No.: G26
Page 2

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Revised 12/15/89

L4/NRC/

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) South Texas, Unit 2 DOCKET NUMBER (2) 0 5 0 0 0 4 9 9 1 OF 0 3 PAGE (3)

TITLE (4) An Inoperable Fuel Handling Building Exhaust Filter Due to a Wiring Error.

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
0	2	1	4	9	0	9	0	0	0	0	3
0	2	1	4	9	0	9	0	0	0	3	1
0	2	1	4	9	0	9	0	0	0	3	1

OPERATING MODE (9)	1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)											
POWER LEVEL (10)	110	20.402(b)	20.406(e)	50.73(a)(2)(iv)	73.71(b)								
		20.406(a)(1)(i)	50.36(e)(1)	50.73(a)(2)(v)	73.71(c)								
		20.406(a)(1)(ii)	50.36(e)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Test, NRC Form 366A)								
		20.406(a)(1)(iii)	X 50.73(a)(2)(i)	50.73(a)(2)(vii)(A)									
		20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)									
		20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)									

LICENSEE CONTACT FOR THIS LER (12)

NAME Charles Ayala - Supervising Licensing Engineer TELEPHONE NUMBER 5 1 2 9 7 2 - 8 6 2 8

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS

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 fifteen single-space typewritten lines) (16)

On February 14, 1990, Unit 2 was in Mode 1 at 100 percent power. At approximately 1100 hours, a control room operator discovered that the Train B Fuel Handling Building Exhaust Air Filter Outlet Damper would not open. At approximately 1730 hours, during troubleshooting of this condition, a wiring error was discovered which had disabled the damper actuator. The wiring error was corrected and the damper successfully tested at 1950 hours on February 14, 1990. The cause of the wiring error is unknown; however, it is believed that maintenance technicians failed to follow work instructions during the performance of a preventive maintenance activity. The technicians have been counseled regarding procedure compliance and a training bulletin regarding this event has been issued to maintenance personnel. As a result of a previous event, HL&P has performed a review of the implementation of the station's procedure compliance policy. An action plan for enhancing procedure compliance has been developed.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) South Texas, Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 4 9 9				LER NUMBER (6)			PAGE (3)		
					YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
					9 0	0 0 3	0 0	0 2	OF	0 3

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

DESCRIPTION OF EVENT:

On February 14, 1990, Unit 2 was in Mode 1 at 100 percent power. At approximately 1100 hours, a control room operator discovered that the Train B Fuel Handling Building (FHB) Exhaust Air Filter Outlet Damper would not open. At approximately 1730 hours during troubleshooting of this condition, a wiring error was discovered which disabled the damper actuator. The wiring error was corrected and the damper successfully tested at 1950 hours on February 14, 1990. Upon further investigation, it was determined that the wiring error occurred during a preventive maintenance activity on January 28, 1990. Technical Specification 3.7.8 precludes operation above Mode 5 for more than seven days with one FHB filter train inoperable. The NRC was notified of this violation at 1030 hours on February 15, 1990.

An investigation of the cause of the wiring error was performed. It was determined that the damper stopped operating sometime after January 26, 1990, when the last operability test was performed. The only maintenance activity performed after that date was a damper controller calibration on January 28, 1990. This calibration did not require the lifting of any leads, no lifted leads were documented at the time of the calibration and the technicians involved did not recall lifting any leads. No damper operability test was specified or performed since the preventive maintenance activity, if performed correctly, should not have affected the configuration of the actuator wiring. No other activities were identified which could have resulted in the wiring error.

CAUSE OF EVENT:

No specific cause for the wiring error has been identified, however, it is believed that technicians may have failed to follow preventive maintenance work instructions and failed to follow procedural requirements for documentation of lifted leads.

ANALYSIS OF EVENT:

Operation of the plant above Mode 5 in excess of 7 days with one train of the Fuel Handling Building Exhaust Filtration System inoperable is a violation of Technical Specification 3.7.8 which is reportable pursuant to 10CFR50.73(a)(2)(i)(B). The redundant 100 percent capacity FHB Exhaust Filtration train was not affected by this damper inoperability and was available to perform the system's required safety function during this time.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) South Texas, Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 4 9 9 9 0	LER NUMBER (5)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		— 0	0 3	— 0	0 0	3 OF	0 3

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

CORRECTIVE ACTION:

The following corrective actions are being taken as a result of this event:

1. The technicians involved have been counseled regarding procedure compliance.
2. A training bulletin has been issued to Maintenance personnel regarding this incident and the need to follow procedures.
3. Failing to follow approved procedures was identified previously in Unit 1 Licensee Event Report (LER) 89-017. Contained within this LER was corrective action to review the implementation of the station's procedure compliance policy with regard to employee understanding and management enforcement. The review has been completed and an action plan for evaluating and enhancing procedure compliance has been developed.

Additional Information:

The following previous events have been reported regarding failure to follow work instructions:

- LER 89-013 (Unit 1) Unplanned Engineered Safety Features Actuation of the Fuel Handling Building HVAC Due to Personnel Error
- LER 90-001 (Unit 1) Engineered Safety Features Actuation Due to Loss of Power to a Radiation Monitor Relay

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