

The Light company

Houston Lighting & Power

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

September 10, 1992

ST-HL-AE-4194
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
Revision 1 to Licensee Event Report 92-005
Containment Ventilation Isolation Actuation Due to a
Failure in the RM-23A Module

Pursuant to 10CFR50.73, Houston Lighting & Power Company (HL&P) submits the attached revision to Licensee Event Report 92-005 regarding a Containment Ventilation Isolation Actuation due to a failure in the RM-23A module. This event did not result in an 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 me at (512) 972-7205.

William J. Jump
William J. Jump
General Manager,
Nuclear Licensing

MKJ/ag

Attachment: LER 92-005 Revision 1 (South Texas. Unit 2)

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A Subsidiary of Houston Industries Incorporated

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Revised 10/11/91

L4/NRC/

LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST - 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, 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) **050004991** PAGE (3) **OF 4**

TITLE (4) **Containment Ventilation Isolation Actuation Due to a Failure in the RM-23A Module.**

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)
05	08	92	92	005	01	09	09	92			050000
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)											

OPERATING MODE (9)	1	20.402(b)	20.405(c)	X	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10)	100	20.405(a)(1)(i)	50.38(e)(1)		50.73(a)(2)(iv)	73.71(c)
		20.405(a)(1)(ii)	50.38(e)(2)		50.73(a)(2)(v)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
		20.405(a)(1)(iii)	50.73(a)(2)(i)		50.73(a)(2)(viii)(A)	
		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)(ix)	

LICENSEE CONTACT FOR THIS LER (12)
 NAME: **Charles Ayala - Supervising Licensing Engineer**
 TELEPHONE NUMBER: **512 972-8628**

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC
X	ILMON	G063		YES					

SUPPLEMENTAL REPORT EXPECTED (14)
 YES (If yes, complete EXPECTED SUBMISSION DATE) NO
 EXPECTED SUBMISSION DATE (15) **03 23 93**

ABSTRACT (Limit to 1400 spaces, i.e., approximately 1600 single space typewritten lines) (16)

On May 8, 1992, Unit 2 was in Mode 1 at 100% power. At approximately 1324 hours a Containment Ventilation Isolation (CVI) actuation occurred. Operations personnel verified that all equipment actuated as designed. The radiation monitoring system did not indicate any high radiation conditions. The Containment Ventilation Isolation actuation appears to be the result of an equipment failure in a radiation monitoring RM-23A module. Troubleshooting of the suspect RM-23A module and maintenance history evaluations have been performed.

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 RECORDS AND REPORTS MANAGEMENT BRANCH (P-630), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, 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) 0500049992-005-0102	LER NUMBER (8)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		

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

DESCRIPTION OF EVENT:

On May 8, 1992, Unit 2 was in Mode 1 at 100% power. At approximately 1324 hours a Containment Ventilation Isolation (CVI) actuation occurred. Operations personnel verified that all equipment actuated as designed. The NRC was notified pursuant to 10CFR50.72 at 1445 hours.

Safety related radiation monitors have control and display functions contained within individual RM-23A modules located in the control room ZCP-023 cabinet. Each RM-23A module is a microprocessor based unit that processes data from an individual radiation monitor. The RM-23A module generates the actuation signal for radiation monitors associated with Engineered Safety Features.

Technicians were at the radiation monitor panel (ZCP-023) performing an operability test on one of the two Spent Fuel Pool Exhaust Monitors (RT-8035) for the Fuel Handling Building, when the Shift Supervisor informed them that radiation monitor RI-8012B's upper digital display was blank, the error light was flashing and a CVI actuation had occurred. RT-8012 is one of the two radiation monitors for the Containment Purge System.

The RM-23A module (RI-8012B) associated with the RT-8012 radiation monitor was replaced. The redundant radiation monitor RI-8013 was verified to have normal radiation levels.

CAUSE OF EVENT:

The Engineered Safety Features Containment Ventilation Isolation actuation appears to be the result of an equipment failure in the RM-23A module. A definite cause of the equipment failure has not been established.

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 RECORDS AND REPORTS MANAGEMENT BRANCH (F-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, 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) 0 5 0 0 0 4 9 9 9 2	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		0 0 5	0 1	0 3	OF	0 4

TEXT (If more space is required, use additional NRC Form 306A's) (17)

ANALYSIS OF EVENT:

Unplanned actuation of an Engineered Safety Feature is reportable pursuant to 10CFR50.73(a)(2)(iv). All ESF equipment actuated as designed. No evidence of high radiation was found. While any unnecessary challenge to an Engineered Safety Feature is undesirable, actuation of Containment Ventilation Isolation represents a minimal hazard since it could not cause, worsen, or prevent mitigation of any accident.

CORRECTIVE ACTIONS:

The following corrective actions have been taken as a result of this event:

1. The RM-23A module associated with the RI-3012B monitor was replaced.
2. Testing of the RI-8012B module to determine a cause for the failure has been completed. There were no additional failures noted for the RI-8012B module during the time the module was set up for testing. A cause of failure could not be determined.

A review of the RM-23A module maintenance history from June 1987 to May 1992 has been completed. Failure/actuation events have occurred when adjacent channel surveillance testing activities were in progress. The review did not reach a conclusion as to the cause of the unexplained and spurious actuations, indications, or events occurring within the radiation monitoring equipment. HL&P is continuing to evaluate these events of unknown failures within the radiation monitoring system. The results of this analysis will be submitted in a supplemental report by March 23, 1993.

ADDITIONAL INFORMATION:

The radiation monitor which caused this event was manufactured by General Atomics.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-630), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		

TEXT (If more space is required, use additional NRC Form 356A's) (17)

ADDITIONAL INFORMATION: (Con't)

Several other events have been documented in regards to Engineered Safety Features actuation as a result of spurious actuations of the radiation monitoring system. At the time of this event, there have been no ESF actuations in either unit, with the exception of the Reactor Protection System as a result of reactor trips, since July 7, 1991. Within the past few months there have been several Engineered Safety Feature actuations. As a result, an Unplanned ESF Actuations Task Force has been initiated to evaluate plant activities to reduce the number of unplanned ESF actuations.