

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

> June 5, 1992 ST-HL-AE-4113 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 92-005 Containment Ventilation Isolation Actuation Due to a Failure in the RM-023A Module

Pursuant to 10CFR50.73, Houston Lighting & Power Company (HL&P) submits the attached Licensee Event Report 92-005 regarding a Containment Ventilation Isolation Actuation due to a failure in the RM-023A 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

IE22 11,

Manager, Nuclear Licensing

MKJ/lf

Attachment: LER 92-005 (South Texas, Unit 2)

020112

9206100124 920605 PDR ADDCK 05000499

PDR

LEK192149001.02

A Subsidiary of Houston Industries Incorporated

Houston Lighting & Power Company South Texas Project Electric Generating Station

cc:

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

George Dick, 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. 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 P.O. Box 1088 Austin, TX 78767

K. J. Fiedler/M. T. Hardt City Public Service Board P. O. Box 1771 San Antonio, TX 78296 ST-HL-AE-4113 File No.: G26 Page 2

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

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

Dr. Joseph M. Hendrie 50 Bellport Lane Bellport, NY 11/13

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

Revised 10/11/91

L4/NRC/

LICENSEE EVENT REPORT (LER) EXAMPLE AND/OF ACIULTY NAME (1) South Texas, Unit 2 Image: A market in the report of the recommendation	NRC FO	R.M. 36	6									-		U	S. NL	UCLE	AR RE	QUL	ATOR	Y COMMIS	SION	T				PPRC	OVE	0.01	AB N	0.31	50-01	34		
ARELLY MARKE 117 South Texas, Unit 2 0 5 0 5 0 4 9 1 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 <th0< th=""> 0 <th0< th=""> <</th0<></th0<>	LICENSEE EVENT REPORT (LER)										OLLE RDH ANA MMI C RE	PER RESPONSE TO COMPLY WTH THIS CTION REQUEST 500 HRS. FORWARD VG BURDEN ESTIMATE TO THE RECORDS GEMENT BRANCH (P530). U.S. NUCLEAR SSION WASHINGTON DC 20555. AND TO DUCTION PROJECT 0150-0109. OFFICE																						
Due to a Failure in the RM-023A Module. EVEN DATE (8) LER NUMBER (8) REPORT DATE (7) OTHER FACULTIES INVOLVED (8) NONTH DAY YEAR VEAR SEDUCTION REVENT DATE (7) OTHER FACULTIES INVOLVED (8) NONTH DAY YEAR VEAR SEDUCTION REVENT DATE (7) OTHER FACULTIES INVOLVED (8) NONTH DAY YEAR VEAR SEDUCTION REVENT DATE (7) OTHER FACULTIES INVOLVED (8) OI 5 0 8 9 2 9 2 0 0 0 5 0 0 0 6 0 5 9 2 0 5 0 0 0 10 1 1 DAY VEAR YEAR YEAR YEAR DEFERSION THE REPORT (8 SUBMITTED JURSUANT TO THE ROUTHEMENTS OF 10 CFR & Check und or ford of the formandpl (13) YEAR	AUTO I MARE III								DOC	× ET	NL V	RE	R (2)				F	-procession																
Due to a Failure in the RM-023A Module. EVENT DATE (3) OTHER FACULITIES INVOLVED (8) MONTH DAY YEAR YEAR YEAR YEAR YEAR YEAR PRODUCES (1) ODICKET NUMBER(3) ODICKET NUMBER(3) DOCKET NUMBER(3) THE REPORT IS SUBARTED PURSUANT TO THE REQUISEMENTS OF 10 CFR § (Chark are or more of the following) (11) DOWER 1 THE REPORT IS SUBARTED PURSUANT TO THE REQUISEMENTS OF 10 CFR § (Chark are or more of the following) (11) DOWER 1 THE REPORT IS SUBARTED PURSUANT TO THE REQUISEMENTS OF 10 CFR § (Chark are or more of the following) (11) DOWER 1 THE REPORT IS SUBARTED PURSUANT TO THE REQUISEMENTS OF 10 CFR § (Chark are or more of the following) (11) DOWER 1 THE REPORT IS SUBARTED PURSUANT TO THE REQUISEMENTS OF 10 CFR § (Chark are or more of the following) (11) DOWER 1 THE REPORT RECOMPTING TO T																								0	15	0	,0	10	1	4	9	91	OF	0 3
MONTH DAY YEAR SEDULATION DOWNER NUMBER MONTH DAY YEAR FACULITY NAMES DOCKET NUMBER DOCKET NUMBER 0 5 0 8 9 2 0 5 0 0 5 0 0 0 5 0	TITLE (4																					lor												
NUMER NUMBER NUMER NUMER NUMER	٤v	ENT C	DATE	(6)				LE	ER NU	STATES E	R (6	1		T	RE	PORT	DAT	E (2)					OTHE	RFAC	11.17	168.1	NV	-						
0 5 0 8 9 2 9 0 5 0 0 5 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 20 406141 1 1 20 406141 1 1 20 406141 1 1 20 4061411 1 1 20 4061411 1 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1 20 40614111 1	MONTH	DA	Y	YE	4A	YE	AR		SEQU	ENT NBE	R	1	NE VISION	3,10	MONTH DAY			X E A	AR		ACIL	CILITY NAMES					DH	DOCKET NUMBERIS						
DPERATINO MODE IN MODE IN MODE IN THIS REPORT IS SUBMITTED PURSUANT TO THE INDUISIEMENTS OF 10 CFB 5: IChars uns or more of the following! (1):																										1.		0	1	510	10	101		11
Defensitive MODE 1 20.402(b) 20.402(b) X 50.73(a)(2)(a) 73.71(b) POWER LEVEL 1 0 0 20.405(a)(11)(b) 50.36(a)(1) 50.73(a)(2)(a) 50.73(a	0 5	0	8	9	2	9	2		O	0	5	-	0 0	0	6	0	5	9	2									0	1	5 0	10	10	1	1.1
POWER 100 4005(0)(10) 00 4005(0)(10) 00 30(0)(10) 80 73(0)(10) 90 73(0)(10) PEVEL 100 00 4005(0)(10) 90 36(0)(10) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 20 406(0)(11(0) 20 406(0)(11(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 20 406(0)(11(0) 20 406(0)(11(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 20 406(0)(11(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 20 406(0)(11(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 20 406(0)(11(0) 90 406(0)(11(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 20 406(0)(11(0) 90 406(0)(11(0) 90 406(0)(10)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 20 406(0)(11(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 90 73(0)(2)(0) 20 400 (0)(10 (0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(OPE	RATI	NO			THU	REP(ORT	15 \$1.	(自私)1	TTEC	PUR	SUANT	TOT	THE P	LOUI	HENE	ENTS	OF 10	CPR S	Chesh	008	or man	e of ti	10 10	1044-10	14	31)						
Literen 1 0 0 20.405(a)(11(a)) 50.38(a)(12(a)) 50.73(a)(2)(a) 50.73(a)(2)(a) 0 0 THE R (Specify in Abstract Degree and in Text NRC Form inScal 20.405(a)(11(a)) 20.405(a)(11(a)) 50.73(a)(2)(a)	14	DDE (91		1	20.402(b)					20.405(e)					X	X 80.73(e)(2)(iv)									73.71	(6)							
Ites Ites Ites Ites Solde(11) Solde(12)				~	~	_	20,405(a)(1)(i)					50.36(c)(1)						50							1									
20.405(a)(1110) 50.73(a)(2)(a) 50.73(a)(2)(0)(15) LICENSEE CONTACT FOR THIS LER 1/2) Charles Ayala - Supervising Licensing Engineer COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT 1/3) CAUSE SYSTEM COMPONENT MANUFAC TURER TO NURDS A IL M O N G O 6 3 YES SUPPLEMENTAL REPORT EXPECTED 1/4) EXPECTED SUBMISSION (DATE) NO				0		20.405(4)(1)(8)				50,36(c)(2)					-	personal						below and in Taxt NRC Form												
20.406(a)(1)(a) 50.73(a)(2)(a) 50.73(a)(2)(a) 50.73(a)(2)(a) LICENSEE CONTACT FOR THIS LER (12) TELEPHONE NUMBER AREA CODE Charles Ayala - Supervising Licensing Engineer COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (12) COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (12) CAUSE SYSTEM COMPONENT MANUFAC REPORTABLE TO NPROS MANUFAC TO NPROS MANUFAC TO NPROS A I L M O N G O 6 3 YES SUPPLEMENTAL REPORT EXPECTED (14) EXPECTED SUBMISSION DATE! NO													-	-							1									166A				
LICENSEE CONTACT FOR THIS LER 1121 TELEPHONE NUMBER AREA CODE Charles Ayala - Supervising Licensing Engineer COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (12) CAUSE SYSTEM COMPONENT VIANUFAC TURER FONPROS CAUSE SYSTEM COMPONENT X I L M O N G O G G SUBMISSION DATE NC LICENSEE CONTACT FOR THIS LER 112 TELEPHONE NUMBER AREA CODE AREA CODE SUBMISSION DATE NC LICENSEE CONTACT FOR THIS LER 112 TELEPHONE NUMBER AREA CODE AREA CODE AREA CODE SUBMISSION DATE NC LICENSEE CONTACT FOR THIS LER 112 TELEPHONE NUMBER AREA CODE AREA CODE AREA CODE SUBMISSION COMPONENT TURER AREA CODE AREA AREA AREA CODE AREA AREA AREA AREA AREA AREA AREA A												÷4						-	1							10								
TELEPHONE NUMBER TELEPHONE NUMBER Charles Ayala - Supervising Licensing Engineer Complete one Line for each component failure described in this report (1) Complete one Line for each component failure described in this report (1) CAUSE SYSTEM COMPONENT MANUFAC TURER REPORTABLE TO NPRDS X IL M O N G O G 3 YES SUPPLEMENTAL REPORT EXPECTED (14) EXPECTED SUBMISSION DATE) NO	**********					-	20.4	06 (8)	1(1)(V)		-		-	die.				E 7345	N 14110		1.90	7314	CRICA-					4				-		
AREA CODE Charles Ayala - Supervising Licensing Engineer 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 MANUFAC TURER REPORTABLE TO APROS X I L M O N G O 6 3 YES MANUFAC TURER CAUSE SYSTEM COMPONENT MANUFAC TURER REPORTABLE TO APROS SUPPLEMENTAL REPORT EXPECTED (14) EXPECTED SUBMISSION DATE) MONTH DAY YEAR NO DATE (15)	NAME				-			-					Aierrowi	LIUE	MALE	CUN	ACT	FUR	imia	LER (12)		-			1		-	TE	LEP	HONE	NUN	BER		
COMPLETE ONE LINE FOR EACH COMPONENT PAILURE DESCRIBED IN THIS REPORT (13) CAUSE SYSTEM COMPONENT MANUFAC TURER TO NPRDS X I L M O N G O 6 3 YES SUPPLEMENTAL REPORT EXPECTED (14) SUPPLEMENTAL REPORT EXPECTED (14) X YES (Iff yes, comparise EXPECTED SUBMISSION DATE) NO																				AREA CODE														
COMPLETE ONE LINE FOR EACH COMPONENT PAILURE DESCRIBED IN THIS REPORT (13) CAUSE SYSTEM COMPONENT MANUFAC TURER TO NPRDS X I L M O N G O 6 3 YES SUPPLEMENTAL REPORT EXPECTED (14) SUPPLEMENTAL REPORT EXPECTED (14) X YES (Iff yes, comparise EXPECTED SUBMISSION DATE) NO			CÌ	nar	-14	8.85	Ay	al	la	-	SL	ipe	rvi	si	ng	L	ice	ens	sin	g En	gi	ne	er		5	1	2	9	17	1,2		,8	16	2 8
CAUSE SYSTEM COMPONENT TURER TO NPRDS X I L M O N G O G 3 YES SUPPLEMENTAL REPORT EXPECTED (14) EXPECTED SUBMISSION DATE) NO DATE (15)									COM	MPLE	TEC	ONE L	INE FO	R EA	CH C	OMPO	NENT	FAL	LURE	DESCRIBI	ED IN	THI	AEPO	TRC	13)	A		-						harrow harrow
SUPPLEMENTAL REPORT EXPECTED (14) EXPECTED MONTH DAY YEAS X YES (If yes, complete EXPECTED SUBMISSION DATE) NO 0191092 092	CAUSE	SYS	TEM	ci	COMPONE		NENT					REPORTABLE		E	E			1		SYSTEM	c	OMPO	NENT		MANUFAC									
X YES (IN yes, complete EXPECTED SUBMISSION DATE) NO DATE (5) 019100912	x	X I L M O			N		G	0	6	3	3	ES							1		1			1	1	1								
X YES (IN yes, complete EXPECTED SUBMISSION DATE) NO DATE (5) 019100912														T												-								
X YES (IN yes, complete EXPECTED SUBMISSION DATE) NO DATE (5) 019100912		1				1			1	1			-	1				1		1	1	1	1		1	1	1			-	1		-	
X YES (If yes, complete EXPECTED SUBMISSION DATE) NO DATE (15) 0 9 1 0 9 2								_	\$1.	1941	EME	VTAL	REPOR	T EX	PECT	60 11	4)		-											N	ONT	1	DAY	YEAR
ABSTRACT (Limit to 1400 specer Le, epproximately filteen single spece typewritten lines) [18]	XYE	5 //# y	(#1, c	отри	rte E	NPEC	TED S	USA	A1551C	n p	ATE)				-	-	NO									DA DA	MIS: 7.8	15.			019	1	0	9 2
	ABSTRA	ET IL	im/t	10 14	10 sp	9082	8. 90	BrQ N	imate	y nn	9.617 3	ungie a	usacă tri	(News7)	tten fi	maul 11	(8)																	

On May 8, 1992, Unit 2 was in Mode 1 at 100% power. At approximately .324 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-023A module. Troubleshooting of the suspect RM-023A module and maintenance history evaluations are being performed.

LER\92149001.U2

NRC FORM 366A (6-89)		U.S. NUCLEAR REGULATORY COMMISSION	APPROVED OME NO. 3160-0104 EXPIRES: 4/30/92													
•	LICENSEE EVENT REPO TEXT CONTINUATI		INF COM ANI REC THI	ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH T INFORMATION COLLECTION REQUEST 50.0 HRS. FORWA COMMENTS REGARDING BURDEN ESTIMATE TO THE RECO AND REPORTS MANAGEMENT BRANCH (P.530), U.S. NUCLE REGULATORY COMMISSION, WASHINGTON, DC 20565, AND THE PAPERWORK REDUCTION PROJECT (3150-0104), OFF OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503												
FACILITY NAME (1)		DOCKET NUMBER (2)						LER NUMBER IGI PAGE (
			YEA	41		MBER		NUMBE								
South T	exas, Unit 2	0 5 0 0 0 4 9	9 9	2	0	0	5	0 0	0	2	OF	0 3				

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.

Technical Specification related radiation monitors have control and display functions contained within individual RM-023 modules located in the control room ZCP-023 console. Each RM-023 module is a microprocessor based unit that processes data from an individual radiation monitor. The RM-023 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. The technicians were in the process of completing data sheets for RT-8035 when the Shift Supervisor informed them that RT-8012's 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. Although the RM-023 modules for RT-8035 and RT-8012 are located in the same cabinet, they are physically and electronically independent. The error light is an indication of a loss of communications to the RM-023A module. Diagnostics testing on the RT-8012 RM-023A module was unsuccessful in that 99% of the display returned and remained on. The RM-023A module associated with the RT-8012 monitor was replaced. The redundant radiation monitor RT-8013 was verified to have normal radiation levels.

The suspect RM-023A module is being tested in the plant shop by Maintenance technicians.

CAUSE OF EVENT:

The Engineered Safety Features Containment Ventilation Isolation actuation appears to be the result of an equipment failure in the RM-023A module. A definite cause of the equipment failure has not been established.

LER\92149001.U2

NRC FORM 386A (6-89)	U.S. NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO 3180-0104 EXPIRES 4/30/92												
LICENSEE EVEN TEXT CONT	IT REPORT (LER)	ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST BOD HRS FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH IP5300, U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20855 AND TO THE FAPERWORK REDUCTION PROJECT (3150-0104). OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.											D S R D	
PACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (8) PAGE (3									3)			
	선수님 김 동안은 것 같은 것이 같다.	YEAR	SEQUENTIAL NUMBER				NUM	ABER			T			
South Texas, Unit 2	0 5 0 0 0 4 9 9	9 2		0	0	5 -	0	0	0	3	OF	0	3	
TEXT III more space is required, use additional NRC Form 368A's) I	17)												1	

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 are being taken as a result of this event:

- 1. The RM-023 module associated with the RT-8012 monitor was replaced.
- Troubleshooting of the RT-8012 RM-023A module to determine a cause for the failure will be completed by July 23, 1992.
- 3. Maintenance history of the RM-023 modules will be reviewed and evaluated for common failures by August 6, 1992.

A supplemental report documenting the results of these evaluations will be provided by September 10, 1992.

ADDITIONAL INFORMATION:

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

Several other events have been documented in regards to Engineered Safety Features actuation as a result of spurious actuations of the radiation monitoring system. 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.