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 FACIL: 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
 AUTH. NAME AUTHOR AFFILIATION
 HOLIFIELD, C.D. Florida Power & Light Co.
 SAGER, D.A. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 89-008-00: on 891229, missed sealed source leak test surveillance due to personnel error.

W/8 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

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	AEOD/DSP/TPAB	1 1	AEOD/ROAB/DSP	2 2
	DEDRO	1 1	NRR/DET/ECMB 9H	1 1
	NRR/DET/EMEB9H3	1 1	NRR/DET/ESGB 8D	1 1
	NRR/DLPQ/LHFB11	1 1	NRR/DLPQ/LPEB10	1 1
	NRR/DOEA/OEAB11	1 1	NRR/DREP/PRPB11	2 2
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	REG FILE 02	1 1	RES/DSIR/EIB	1 1
	RGN2 FILE 01	1 1		
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P.O. Box 14000, Juno Beach, FL 33408-0420

JANUARY 29 1990

L-90-41
10 CFR 50.73

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

Gentlemen:

Re: St. Lucie Unit 1
Docket No. 50-335
Reportable Event: 89-8
Date of Event: December 28, 1989
Missed Sealed Source Leak Test
Surveillance Due To Personnel Error

Gentlemen:

The attached Licensee Event Report is being submitted pursuant to the requirements of 10 CFR 50.73 to provide notification of the subject event.

Very truly yours,

A handwritten signature in dark ink, appearing to read "D. A. Sager", written in a cursive style.

D. A. Sager
Vice President
St. Lucie

DAS/GRM/rh

Attachment

cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant

9002070001 900128
PDR ADOCK 05000335
S PDC

Handwritten initials, possibly "J. E. B.", and the number "11" written below them.

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) ST. LUCIE, UNIT 1	DOCKET NUMBER (2) 05000335	PAGE (3) 1 OF 03
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TITLE (4) **MISSED SEALED SOURCE LEAK TEST SURVEILLANCE DUE TO PERSONNEL 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)
1	2	29	8	9	008	0	1	28	N/A		051010111

OPERATING MODE (9) **1** THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR :
(Check one or more of the following) (11)

POWER LEVEL (10) 100	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
	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 Specify in Abstract below and in Text NRC Form 366A
	20.405(a)(1)(iii)	X 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)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME CHARLES D. HOLIFIELD, SHIFT TECHNICAL ADVISOR	TELEPHONE NUMBER
	AREA CODE 407 4653550

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) | NO

EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces. I.e. approximately fifteen single-space typewritten lines)(16)

ABSTRACT

On December 29, 1989 at 1515 with Unit 1 at 100% power, it was discovered that source number 29 was not on Health Physics (HP) list of sealed sources and had missed at least two Technical Specification required leak tests. HP immediately conducted a leak test in accordance with HP procedure HP-43, "Leak Testing and Inventory of Radioactive Sealed Sources," to reveal no removable contamination. Health Physics completed an audit of all sealed sources on site by contacting plant departments by phone: This audit indicated that there were no other sealed sources missing from the Health Physics list.

The root cause of the event was Health Physics personnel error in that Chemistry Department source number 29 was not added to the Health Physics list of sealed sources requiring a semi-annual leak test surveillance when performing HP procedure 40A, "Receipt of Radioactive Material."

Corrective actions: Health Physics performed a leak test on source number 29 in accordance with Health Physics procedure HP-43, "Leak Testing and Inventory of Radioactive Sealed Sources." Health Physics completed an audit of the Health Physics list of sealed sources that require a semi-annual leak test. Health Physics changed procedure HP-40A, "Receipt of Radioactive Material," to provide guidance for adding sealed sources to the HP inventory upon receipt on site.



FACILITY NAME (1) ST. LUCIE, UNIT 1	DOCKET NUMBER (2) 0 5 0 0 0 3 3 5	LER NUMBER (6)						PAGE (3)							
		YEAR	SEQUENTIAL NUMBER			REVISION NUMBER									
		8	9	--	0	0	8	--	0	0	0	2	OF	0	3

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

DESCRIPTION OF THE EVENT

On December 29, 1989 with Unit 1 in Mode 1 at 100% power, Health Physics (HP) was conducting a scheduled semi-annual audit of their list of sealed sources that require a leak test surveillance. Due to concerns brought about as a result of LERs at another nuclear facility regarding missed leak test surveillances on sealed sources, HP supervision requested an update of the PSL Chemistry Department sealed source inventory.

At 1515 on December 29, 1989 it was discovered that source number 29 was not on HP's list of sealed sources. This 11.52 microcurie Americium 241 source was received on site in June 1988 and leak-tested in accordance with HP procedure 40A, "Receipt of Radioactive Material." Since it is a >5 microcurie alpha emitter, it should have been tested every six months since arriving on site. The six month leak test is a requirement of Unit 1 Technical Specification 3.7.9.1 and Unit 2 Technical Specification 3.7.10. However, since it was not put on HP's list, at least two leak test surveillances on chemistry source number 29 were missed.

Upon discovering the missed leak test surveillances, HP immediately conducted a leak test in accordance with procedure HP-43, "Leak Testing and Inventory of Radioactive Sealed Sources." The test indicated no removable contamination which was within the limits of Unit 1 Technical Specification 3.7.9.1 and Unit 2 Technical Specification 3.7.10 (<0.005 microcuries).

Health Physics completed the audit by contacting all plant departments by phone to ensure that there were no other sealed sources missing from their list requiring semi-annual testing. Although the on-site contractors have sealed sources, they are controlled by a different license and do their own leak tests on their sealed sources.

CAUSE OF THE EVENT

The cause of the event was Health Physics personnel error in that source number 29 was not added to the Health Physics list of sealed sources requiring a semi-annual leak test surveillance when performing HP procedure 40A, "Receipt of Radioactive Material."

ANALYSIS OF THE EVENT

Unit 1 Technical Specification surveillance 4.7.9.1.2 and Unit 2 Technical Specification surveillance 4.7.10.2 require that each sealed source containing radioactive material either in excess of 100 microcuries of beta- and/or gamma- emitting material or 5 microcuries of alpha-emitting material shall be tested at least every six months to be free of >= 0.005 microcuries of removable contamination.

Upon discovery of the missed surveillances on source number 29, a leak test was performed in accordance with HP procedure HP-43, "Leak Testing and Inventory of Radioactive Sealed Sources." This test revealed no removable contamination. Based on the results of the leak test, the health and safety of the public were not affected at any time. However, since at least two Technical Specification surveillances were missed, this event is reportable under 10CFR50.73.a.2.i.B.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) ST. LUCIE, UNIT 1	DOCKET NUMBER (2) 0 5 0 0 0 3 3 5	LER NUMBER (6)						PAGE (3)			
		YEAR	SEQUENTIAL NUMBER			REVISION NUMBER					
		8 9 --	0	0	8	--	0	0	0	3	OF

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

CORRECTIVE ACTIONS

- 1) Health Physics performed a leak test surveillance on source number 29 in accordance with HP procedure 43 to ensure leakage to be within Unit 1 and Unit 2 Technical Specification limits.
- 2) Health Physics completed an audit of the Health Physics list of sealed sources that require a semi-annual leak test.
- 3) Health Physics changed HP procedure 40A, "Receipt of Radioactive Material," to provide procedural guidance for adding sealed sources to the HP inventory upon receipt on site.

ADDITIONAL INFORMATION

Previous Similar Events:

There have been no previous Licensee Event Reports involving missed sealed source leak test surveillances at this facility.