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ACCESSION NBR: 9112300286 DOC. DATE: 91/12/20 NOTARIZED: NO DOCKET #
 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina 05000400
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 VERRILLI, M. Carolina Power & Light Co.
 RICHEY, R.B. Carolina Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 91-020-00: on 911204, discovered deficiency in radiation surveillance test used for leak testing sealed sources to satisfy TS requirements. Caused by procedural deficiency. Procedure revised & training provided. W/911220 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: Application for permit renewal filed. 05000400

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	NRR/DST/SRXB 8E	1 1	REG FILE 02	1 1
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EXTERNAL:	EG&G BRYCE, J.H	3 3	L ST LOBBY WARD	1 1
	NRC PDR	1 1	NSIC MURPHY, G.A	1 1
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Carolina Power & Light Company

HARRIS NUCLEAR PROJECT
P.O. Box 165
New Hill, NC 27562

DEC 20 1991

Letter Number: HO-910250 (0)

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

SHEARON HARRIS NUCLEAR POWER PLANT UNIT 1
DOCKET NO. 50-400
LICENSE NO. NPF-63
LICENSEE EVENT REPORT 91-020-00

Gentlemen:

In accordance with Title 10 to the Code of Federal Regulations, the enclosed Licensee Event Report is submitted. This report fulfills the requirement for a written report within thirty (30) days of a reportable occurrence and is in accordance with the format set forth in NUREG-1022, September 1983.

Very truly yours

R. B. Richey
Vice President
Harris Nuclear Project

RBR:dmw

Enclosure

cc: Mr. S. D. Ebnetter (NRC - RII)
Ms. B. L. Mozafari (NRC - RII)
Mr. J. E. Tedrow (NRC - SHNPP)

800072

MEM/LER91-020/1/OS1
5112500286 911230
PER AUGCK 05000400
FDR

TE22, 1



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) Shearon Harris Nuclear Plant - Unit #1						DOCKET NUMBER (2) 0 5 0 0 0 4 0 0			PAGE (3) 1 OF 0 1		
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TITLE (4)
Failure to adequately test sealed sources resulting in Technical Specification Violation.

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	0	4	9	1	9	1	1	0	2	0	0	0	1	2	2	0	9	1	0	5	0	0	0

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) 1 0 0	20.402(b)	20.405(c)	60.73(a)(2)(iv)	73.71(b)								
	20.405(a)(1)(i)	60.38(c)(1)	60.73(a)(2)(v)	73.71(c)								
	20.405(a)(1)(ii)	60.38(c)(2)	60.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)								
	20.405(a)(1)(iii)	X 60.73(a)(2)(i)	60.73(a)(2)(viii)(A)									
	20.405(a)(1)(iv)	60.73(a)(2)(ii)	60.73(a)(2)(viii)(B)									
	20.405(a)(1)(v)	60.73(a)(2)(iii)	60.73(a)(2)(ix)									

LICENSEE CONTACT FOR THIS LER (12)

NAME Michael Verrilli - Regulatory Compliance Specialist		TELEPHONE NUMBER 9 1 1 9 3 1 6 2 1 - 1 2 1 3 0 1 3	
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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)

On 12/4/91, during a routine review of completed test documentation, Radiation Control supervisory personnel identified a deficiency in Radiation Surveillance Test RST-010. This procedure is used for leak testing sealed sources to satisfy Technical Specifications (TS) 4.7.9.1 and 4.7.9.2. This process includes smearing these sources and analyzing the smears with an instrument capable of detecting .005 microcuries of contamination per test sample. It was determined that the instrument used for this analysis did not have the required sensitivity level to detect the low energy emissions produced by sources that contain Nickel-63 and Iron-55 isotopes. These sources are used in the plant access explosive detectors and an alloy analyzer used for non-destructive examination (respectively). Each of the twelve sources that contain these elements were smeared again and were analyzed with a liquid scintillation counter that has the required sensitivity level. No contamination levels in excess of TS limits were found. The cause of this event was a procedural deficiency in RST-010. Adequate guidance was not provided in this procedure to ensure that the proper type of instrument was used for analysis. Corrective actions will include a revision to RST-010 and training for applicable radiation control personnel on this revision. There were no safety consequences as a result of this event. This is based on the fact that no contamination levels were found in excess of TS limits, which would have indicated excessive sealed source leakage.

This event is being reported in accordance with 10CFR50.73 (a) (2) (i), (B) as a TS violation. No similar events have been reported.