

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9206300015      DOC. DATE: 92/06/25      NOTARIZED: NO      DOCKET #  
 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina      05000400  
 AUTH. NAME:      AUTHOR AFFILIATION  
 VERRILLI, M.      Carolina Power & Light Co.  
 HINNANT, C.S.      Carolina Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION

SUBJECT: LER 92-005-00: on 920527, WRGM declared inoperable & removed from svc due to personnel error. Additional training provided for personnel involved. W/920625 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: Application for permit renewal filed. 05000400

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INTERNAL:	ACNW		2	2	ACRS		2	2	
	AEOD/DOA		1	1	AEOD/DSP/TPAB		1	1	
	AEOD/ROAB/DSP		2	2	NRR/DET/EMEB 7E		1	1	
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	NRR/DOEA/OEAB		1	1	NRR/DREP/PRPB11		2	2	
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	NRR/DST/SPLB8D1		1	1	NRR/DST/SRXB 8E		1	1	
	<u>REG FILE</u> 02		1	1	RES/DSIR/EIB		1	1	
	RGN2 FILE 01		1	1					
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

P.O. Box 165 \* New Hill, N.C. 27662

C. S. HINNANT,  
General Manager - Harris Plant

JUN 25 1992

Letter Number: HO-920107

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 92-005-00

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

C. S. Hinnant  
General Manager  
Harris Nuclear Project

CSH:dmw

Enclosure

cc: Mr. S. D. Ebnetter (NRC - RII)  
Mr. N. B. Le (NRC - RII)  
Mr. J. E. Tedrow (NRC - SHNPP)  
Mr. G. E. Vaughn

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MISC/LER92-005/1/0S1  
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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   3
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TITLE (4)  
Technical Specification violation due to missed compensatory grab sample.

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	5	2	9	2	0	0	6	2	N/A		0   5   0   0   0
0	5	2	9	2	0	0	6	2			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	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)						
	<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 50.36(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)						
	<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 368A)						
	<input type="checkbox"/> 20.406(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)							
	<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)							
<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(x)								

LICENSEE CONTACT FOR THIS LER (12)	
NAME Michael Verrilli - Regulatory Compliance Specialist	TELEPHONE NUMBER 9   1   9   3   6   2   -   2   3   0   3

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) <input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH   DAY   YEAR
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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

**ABSTRACT:**

On May 27, 1992 the air pump in the isokinetic sampling skid for Radiation Monitor REM-1WV-3547 (Waste Processing Building Stack 5A) was removed for maintenance. To prepare for this evolution, the Stack 5A Wide Range Gas Monitor (WRGM) was declared inoperable and removed from service. Compensatory measures required for declaring the WRGM inoperable were commenced to ensure compliance with Technical Specifications (TS). It was later discovered that this maintenance also affected the operability of the Stack 5A Particulate-Iodine-Gas (PIG) Monitor and that it too should have been declared inoperable prior to beginning maintenance. The TS required compensatory measures for declaring the PIG inoperable with a coincident inoperable WRGM, are to obtain grab samples from the effluent stream once per 12 hours. Approximately 19 hours elapsed from the time of pump removal until the first grab sample was performed. This condition constitutes a TS violation.

The cause of this event was personnel error on the part of those individuals involved in reviewing and completing the necessary prerequisites for this evolution. Corrective actions will include clarifying the operability criteria for radiation monitors of this type, training applicable personnel on this criteria and ensuring that needed reference material regarding these components is available in both the Radwaste Control Room and the Main Control Room.

LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 600 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   9   2	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
			0   0   5		0   0	d   2   OF   0   3

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

**EVENT DESCRIPTION:**

On May 27, 1992, while in Mode-1 at 100 percent power, Radwaste Operations personnel requested that the Wide Range Gas Monitor (WRGM) for Waste Process Building Stack 5A (RM-1WV-3547-1) (EIIIS: IL-P) be declared inoperable to allow for maintenance on the air pump in the isokinetic skid. At 1010 hours, Main Control Room personnel initiated an Equipment Inoperable Record which declared the WRGM inoperable and commenced the required compensatory sampling measures. At approximately 1500 the air pump was removed from the system to allow for bearing replacement. During the night shift of 5/27/92, the duty Radiation Monitoring System Technician identified the possibility that maintenance of this type might possibly affect the operability of the Stack 5A Particulate Iodine Gas Monitor (PIG) in addition to the WRGM. This condition was discussed with the system engineer on 5/28/92 and it was determined that the PIG should have been declared inoperable prior to the air pump removal. The Main Control Room was notified of this and at 0930 on 5/28/92, the PIG was declared inoperable. Technical Specifications (TS) require effluent grab samples be taken every 12 hours when the PIG is declared inoperable. This sample requirement is in addition to the compensatory measures that were taken for the WRGM inoperability. Upon declaring the PIG inoperable, a grab sample was obtained at 1007. Therefore, a period of approximately 19 hours elapsed from the time that the PIG was actually inoperable and the required grab sample was obtained. This constitutes a violation of the 12 hour TS compensatory sample requirement.

The pump was reinstalled into the system by approximately 1130, on 5/28/92. Grab samples continued every 12 hours until all repairs and post maintenance tests were complete. Both monitors were returned to service on 5/29/92 at 1238 hours.

Previous reports related to missed compensatory sampling have been submitted, but none of these occurrences were caused by an inappropriate operability determination.

**CAUSE:**

The cause of this event was personnel error on the part of those individuals involved in reviewing and completing the necessary prerequisites for this evolution. Adequate research was not performed to fully determine the effects that this maintenance had on the operability of both Stack 5A radiation monitors. Factors that contributed to this error were:

- Adequate reference material related specifically to the isokinetic sampling skids, was not readily available in the Radwaste or Main Control Rooms.
- Training on the operation and design of these components has not resulted in a high enough level of knowledge for the individual involved, to fully understand the effects on operability that this maintenance presented.

**LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION**

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 60.0 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.

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		0	0	5	0	3	0   3   0   3

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

- Criteria for determining the operability of radiation monitors that employ an isokinetic skid and the overall responsibility for making this operability determination was not clear for the air pump removal evolution.

**SAFETY SIGNIFICANCE:**

There were no safety consequences as a result of this event. This is based on the fact that the auxiliary sampler, which was in operation as a result of declaring the WRGM inoperable, detected no increased levels in effluent particulate or iodine radioactivity. Additionally, the first grab sample taken at 1007 on 5/28/92, detected no increased levels of noble gas activity. Furthermore, no conditions or activities existed in the Waste Process building during the 19 hour time frame that would have contributed to an increase in any effluent radioactivity.

This event is being reported in accordance with 10CFR50.73 (a)(2)(i)(B) as a TS violation.

**CORRECTIVE ACTIONS:**

- Reference material in the form of a simplified flow diagram, will be provided for use in both the Main Control Room and the Radwaste Control Room.
- Clear, concise, written operability criteria will be developed to provide guidance regarding the isokinetic sample skids.
- Clarification will be provided regarding the responsibility for operability determinations on TS components that are operated by Radwaste.
- Additional training will be provided for those personnel involved.

**EIIS Information:**

Radiation Monitoring System                      IL