

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8704210394 DOC. DATE: 87/04/17 NOTARIZED: NO DOCKET #
 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina 05000400
 AUTH. NAME AUTHOR AFFILIATION
 SCHWABENBAUER, Carolina Power & Light Co.
 WATSON, R. A. Carolina Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-016-00: on 870327, turbine bldg vent stack radiation monitor REM-1TV-3536-1 reinstated. Caused by existing control declaring monitor "operable". Affected radiation monitor restored to operable status. W/870417 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 5
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: Application for permit renewal filed. 05000400

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	AEOD/DOA	1 1	AEOD/DSP/ROAB	2 2
	AEOD/DSP/TAPB	1 1	AEOD/DSP/TPAB	1 1
	NRR/ADT	1 1	NRR/DEST/ADE	1 0
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	NRR/DEST/SGB	1 1	NRR/DLPQ/HFB	1 1
	NRR/DLPQ/QAB	1 1	NRR/DOEA/EAB	1 1
	NRR/DREP/EPB	1 1	NRR/DREP/RAB	1 1
	NRR/DREP/RPB	2 2	NRR/PMAS/ILRB	1 1
	NRR/PMAS/PTSB	1 1	<u>REG FILE</u> 02	1 1
	RES SPEIS, T	1 1	RON2 FILE 01	1 1
EXTERNAL:	EG&G GROH, M	5 5	H ST LOBBY WARD	1 1
	LPDR	1 1	NRC PDR	1 1
	NSIC HARRIS, J	1 1	NSIC MAYS, G	1 1

TOTAL NUMBER OF COPIES REQUIRED: LTR 43 ENCL 41

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) SHEARON HARRIS PLANT UNIT 1 DOCKET NUMBER (2) 0500040001 OF 013 PAGE (3)

TITLE (4) TURBINE BUILDING VENT STACK RADIATION MONITOR

EVENT DATE (5) 03/27/87 LER NUMBER (6) 016-00 REPORT DATE (7) 04/17/87 OTHER FACILITIES INVOLVED (8)

OPERATING MODE (9) 1 POWER LEVEL (10) 040 THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

LICENSEE CONTACT FOR THIS LER (12) NAME R. SCHWABENBAUER - REGULATORY TECHNICIAN TELEPHONE NUMBER 919362-2669

Table with 13 columns: CAUSE, SYSTEM, COMPONENT, MANUFACTURER, REPORTABLE TO NPRDS, CAUSE, SYSTEM, COMPONENT, MANUFACTURER, REPORTABLE TO NPRDS. All cells are empty.

SUPPLEMENTAL REPORT EXPECTED (14) YES (If yes, complete EXPECTED SUBMISSION DATE) NO X NO EXPECTED SUBMISSION DATE (15) -

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

ABSTRACT

On March 23, 1987, at 1200 hours, Radiation effluent monitor REM-1TV-3536-1, Turbine Building Vent Stack Monitor, was declared inoperable due to problems with water in the monitor. With the monitor inoperable, an auxiliary pump was required to draw air through the particulate filter and iodine cartridge sampling media normally in-line on the sampling skid. This was sufficient to satisfy Technical Specification Table 3.3-13 Action Item 49.

At 1500 hours on March 26, 1987, the Radiation monitor REM-1TV-3536-1 was declared operable; however, the auxiliary pump was not disconnected nor was monitor lined up to sample the stack as required.

On March 27, 1987, two Environmental and Chemistry (E&C) technicians questioned the operability of the Radiation monitor as it was not lined up to sample the stack. Upon confirmation that the Radiation monitor was operable, it was lined up to sample the stack at 1445 hours on March 27, 1987, and monitoring of the Turbine Building Vent Stack was reinstated.

At the time of the event, the plant was in Mode 1 at 40 percent reactor power.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) SHEARON HARRIS PLANT UNIT 1	DOCKET NUMBER (2) 0 5 0 0 0 4 0 0	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 7 -	0 1 6 -	0 0	0 2	OF	0 3

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

TEXT

Description

The Turbine Building Vent Stack Monitor, REM-lTV-3536-1, was declared inoperable on March 23, 1987, at 1200 hours due to problems with water in the monitor. As required by Technical Specification Table 3.3-13 Action Item 49, an auxiliary pump was placed in service to draw air through the particulate filter and iodine cartridge sampling media normally in-line on the sampling skid. Due to work being performed on the monitor, skid valve 'C' was left open for testing purposes. With this valve open, valve 'B' closed, and valve 'A' open, the monitor will only draw local air and not vent stack air. This will be the case until the auxiliary pump is removed from service, valve 'A' closed, valve 'B' opened, and valve 'C' closed (see attached sketch).

At 1500 hours on March 26, 1987, Operations personnel declared Radiation monitor REM-lTV-3536-1 operable and made notification to an Environmental and Chemistry (E&C) Technician; however, the technician does not recall receiving the notification. At 1530 hours on March 26, 1987, E&C personnel received the inoperable record for logging. At that time, an E&C foreman requested the auxiliary sampling equipment be disconnected. This was not accomplished; and at that time, it was not known the 'C' valve was open and that the monitor would only see room air.

On March 27, 1987, two E&C technicians were told the monitor was operable. However, the two technicians questioned the operable status of the monitor since they thought the auxiliary sample pump was still in-line. One of the technicians called Radiation Control (RC) and confirmed that the monitor was indeed operable. At 1445 hours on March 27, 1987, the auxiliary pump was disconnected and the valves properly positioned and monitoring of the Turbine Building Vent Stack was reinstated.

The plant was operating in Mode 1 at 40 percent reactor power at the time of the event.

Cause

The administrative controls for tracking inoperable equipment is centered in OMM-003, "Equipment Inoperable Record". The Operations Unit manages this process with other organizational units participating to perform necessary, corrective, and/or compensatory actions. In this case, the E&RC unit implemented the compensatory action (required by Tech. Spec. Action #49).

E&RC procedure CRC-250, Plant Vent Sampling, did not recognize that the compensatory action must be suspended to restore operability. This procedure stated:

"When WRGM Sample Conditioning Skid is deemed OPERABLE, remove auxiliary sampler in accordance with CRC-251, Operation of the Auxiliary Radioactive Gas Sampler, Section 10.3."

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) SHEARON HARRIS PLANT UNIT 1	DOCKET NUMBER (2) 0 5 0 0 0 4 0 0	LER NUMBER (6)			PAGE (3)		
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		8 7	- 0 1 6	- 0 0	0 3	OF	0 3

TEXT (If more space is required, use additional NRC Form 368A's) (17)

Cause (continued)

No time definition is provided to guide the user in how quickly to remove the auxiliary sampling equipment. In this event, the sampler was inadvertently left on the monitor skid and negated its monitoring capability. No administrative control was in place to assure the correct and timely removal of auxiliary sampling equipment.

In summary, existing controls required auxiliary sampling to be in place pending declaring the monitor "OPERABLE".

Analysis

The Turbine Building Vent was not monitored for an interval of approximately 24 hours. During this interval, no primary to secondary leakage existed. Thus, the releases contained only background levels of radioactive material.

Corrective Action

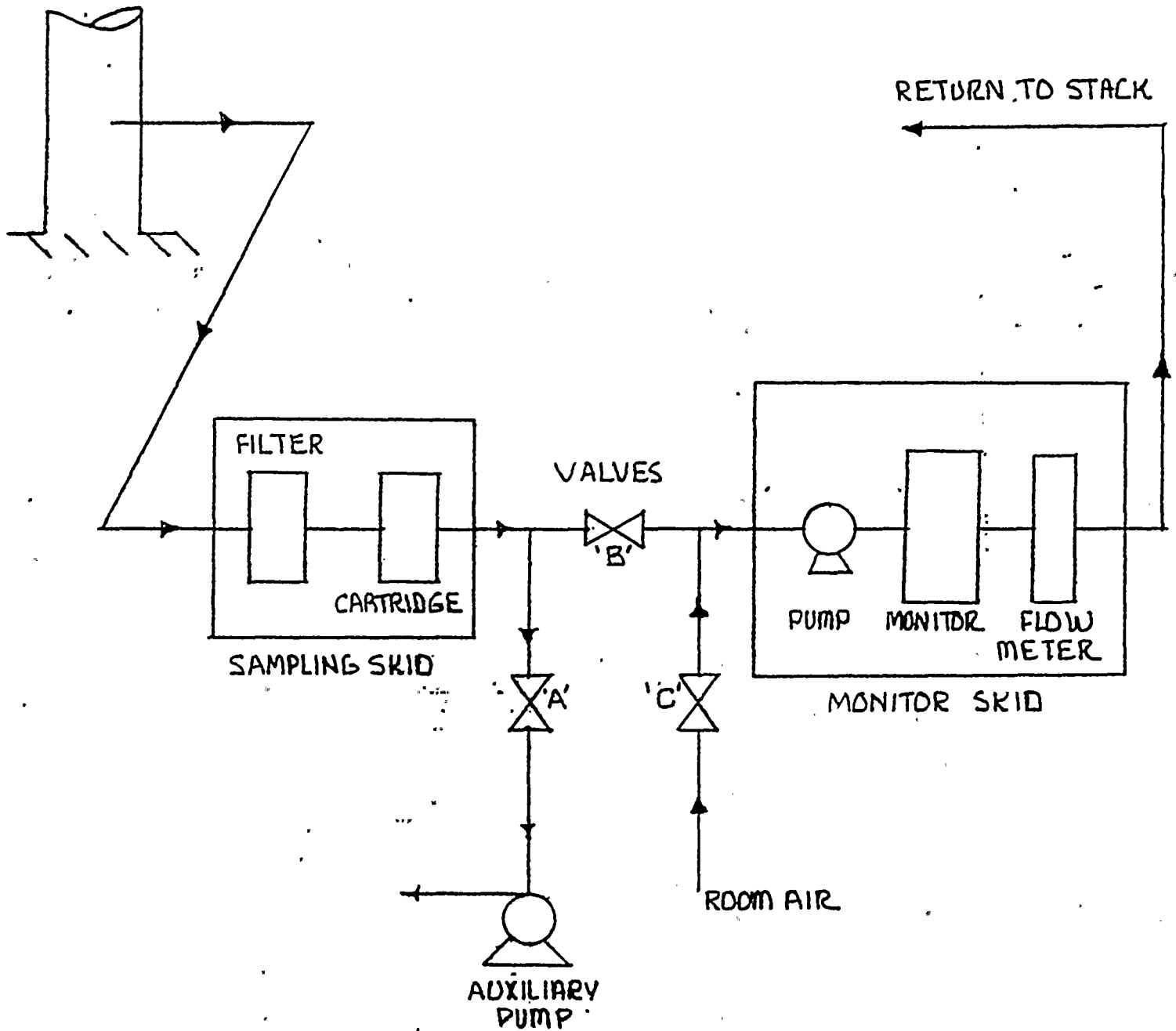
The affected radiation monitor was restored to operable status at 1445 hours on March 27, 1987.

Action to Prevent Recurrence:

1. CRC-250, Plant Vent Sampling, will be changed to specify a time on when the auxiliary sampler must be removed. It will also include a statement requiring E&C to notify the control room that the sampler was removed and at what time.
2. A new procedure will be prepared to provide direction to E&C staff in dealing with the Radiation Monitoring System (RMS) at SHNPP. This procedure will provide direction as to the possible compensatory actions which may be used to satisfy Tech. Spec. Action statements.
3. The applicable forms in OMM-003, "Equipment Inoperable Record", will be revised to track and document more precisely when a monitor may be declared OPERABLE.

LER-87-016-00 ATTACHMENT

TURBINE BUILDING VENT STACK - 3A





Carolina Power & Light Company

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

APR 17 1987

File Number: SHF/10-13510C
Letter Number: HO-870413 (O)

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 87-016-00

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. A. Watson
Vice President
Harris Nuclear Project

RAW:skm

Enclosure

cc: Dr. J. Nelson Grace (NRC - RII)
Mr. B. Buckley (NRC)
Mr. G. Maxwell (NRC - SHNPP)

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