

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8710200544 DOC. DATE: 87/10/15 NOTARIZED: NO DOCKET # 05000400
 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina
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SUBJECT: Special rept: on 870924, vent stack wide range gas monitor RM-3536-1 declared inoperable due to loss of process control. Caused by equipment failure. Flow sensing elements removed & cleaned to remove corrosion.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: Application for permit renewal filed. 05000400

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ACCIDENT RADIATION MONITOR SPECIAL REPORT

Description of Event

On September 24, 1987, at approximately 1700, the Turbine Building Vent Stack Wide Range Gas Monitor (WRGM) # RM-3536-1 was declared inoperable due to loss of process flow. This accident monitor is identified in Technical Specification Table 3.3-10 as Item 23. The compensatory actions required by Technical Specification 3.3.3.11 to allow continued effluent releases are: (1) grab sampling every 12 hours and (2) continuous sampling with auxiliary sampling equipment. These compensatory actions were performed while the monitor was inoperable and all analysis results were within specified limits. A maintenance work request was initiated on September 24, 1987 to repair the monitor, but it was not identified as a high priority work ticket or listed on the "Out-of-Service" list distributed to plant management. Work began on September 29, 1987 and the monitor was repaired and returned to service on October 2, 1987. Failure to identify the work request as a high priority contributed to the monitor being out of service for greater than 7 days. Therefore, a Special Report is required to be submitted per the Technical Specifications.

Cause

The cause of this event was equipment failure. Upon investigation of this matter three contributing factors were identified which led to the monitor failure, 1) high moisture problem in the stack from the condenser vacuum pumps discharge, 2) a grounded feedback circuit within the profiler unit of the system, 3) a defective averaging card.

Corrective Actions

The probes for the flow sensing elements for WRGM # RM-3536-1 were removed and cleaned to remove corrosion. The wiring in the profiler unit was lifted and terminals were cleaned and reconnected. The defective averager unit was replaced twice, due to the first replacement being defective also. Appropriate maintenance surveillance tests were performed satisfactorily and the Turbine Building Vent Stack WRGM # RM-3536-1 was declared operable on October 2, 1987.

A system upgrade is currently under evaluation to resolve operational problems and improve future reliability (Ref. Plant Change Request No. 001918).

The Operations Unit will ensure that as a minimum Technical Specification equipment that is out of service for reasons other than routine maintenance will be put on the "Out-of-Service" list which gets management attention and review.



Carolina Power & Light Company

USNRC-DS
1987 OCT 20 A 9:55

HARRIS NUCLEAR PROJECT

OCT 15 1987

File Number: SHF/10-13510C
Letter Number: HO-870515 (O)

United States Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

HARRIS NUCLEAR PROJECT UNIT 1
DOCKET NO. 50-400
LICENSE NO. NPF-63
NRC 14-DAY SPECIAL REPORT

In accordance with Technical Specifications 3.3.3.6 and 6.9.2 for the Shearon Harris Nuclear Power Plant, Unit No. 1, Carolina Power & Light Company hereby submits this Special Report. This Special Report concerns the operability of a radiation monitor.

Very truly yours,

R. A. Watson
Vice President
Harris Nuclear Project

RAW/ONH/ddl

Enclosure

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

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