

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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SUBJECT: Special rept: on 871212, waste processing bldg vent stack 5 wide range gas monitor declared inoperable.

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HARRIS NUCLEAR PROJECT UNIT 1  
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NRC 14-DAY SPECIAL REPORT

Gentlemen:

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 operability of a radiation monitor.

Very truly yours,

R. A. Watson  
Vice President  
Harris Nuclear Project

JRJ:acm

Enclosure

cc: Dr. J. N. Grace (NRC-R11)  
Mr. B. Buckley (NRR)  
Mr. G. Maxwell (NRC-SHNPP)

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## ACCIDENT RADIATION MONITOR SPECIAL REPORT

### Background:

The Waste Processing Building Vent Stack 5 wide range gas monitor (WRGM) #RM-1WV-3546-1 was declared inoperable under Technical Specification 3.3.3.11, Radioactive Gaseous Effluent Monitoring Instrumentation, and Technical Specification 3.3.3.6, Accident Monitoring Instrumentation, on December 12, 1987, at 1729. This was due to repeated spiking into a high alarm that could not be attributed to actual radioactivity in the process flow going up vent stack 5.

Efforts to return the monitor to operable status within 7 days have been unsuccessful. Therefore, this special report is submitted pursuant to Technical Specification 3.3.3.6, Action C.

### Description of Events:

On December 12, 1987, the Waste Processing Building vent stack 5 WRGM began spiking into the high alarm. Portable grab sampling of the stack process flow revealed no evidence of high radioactivity. The monitor was declared inoperable at 1729 and a work request written to test and repair the monitor.

The compensatory actions required by Technical Specifications 3.3.3.11, Table 3.3-13, Actions 46, 49, and 52 were taken. Since the particulate-iodine-gas (PIG) monitor #RM-1WV-3546, which samples stack 5 in parallel with the WRGM, was still operational, the particulate and iodine pre filters for the WRGM were switched to the PIG. The PIG monitor then provided the primary sampling for noble gas while the WRGM was inoperable. All compensatory measures for gaseous effluent and accident monitoring for stack 5 were satisfied.

### Cause:

Maintenance on the monitor revealed a defective photo-multiplier (P.M.) tube on the low range channel. This tube was replaced and the problem was corrected. The low range channel was satisfactorily calibrated in accordance with MST-I0375, and the monitor was ready to be returned to service on December 28, 1987. Before the system could be declared operational, the high range channel failed. Another work request was issued by operations personnel to test and repair the high range channel. This work was begun on December 30, 1987, but has not been completed. To date, maintenance personnel have not yet been able to determine the problem with the high range channel.

2 Corrective Actions:

1 The corrective actions taken to restore the monitor to operable status were to replace the photo-multiplier tube in the low range channel and to recalibrate the monitor. This was completed on December 28, 1987. Work is still in progress to determine the cause of the additional failure of the high range channel. An estimated completion date for this work is not available at this time. The results of the subsequent repair work will be submitted as a supplement to this report.

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