

DUKE POWER COMPANY

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POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

June 4, 1981

TELEPHONE: AREA 704  
373-4083

Mr. James P. O'Reilly, Director  
U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

Re: McGuire Nuclear Station Unit 1  
Docket No. 50-369



Dear Mr. O'Reilly:

Please find attached Reportable Occurrence Report RO-369/81-79. This report concerns the inoperability of the noble gas activity monitor, EMF-33. This incident was considered to be of no significance with respect to the health and safety of the public.

Very truly yours,

*William O. Parker, Jr.*  
William O. Parker, Jr.

RWO:pw  
Attachment

cc: Director  
Office of Management & Program Analysis  
U.S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Mr. Bill Lavallee  
Nuclear Safety Analysis Center  
Post Office Box 10412  
Palo Alto, CA 94303

Ms. M. J. Graham  
Resident Inspector - NRC  
McGuire Nuclear Station

IE22  
S.I.

McGUIRE NUCLEAR STATION  
INCIDENT REPORT

Report Number: 81-79

Report Date: June 4, 1981

Occurrence Date: May 8, 1981; 1140 hours

Facility: McGuire Unit 1, Cornelius, N. C.

Identification of Occurrence: The noble gas activity monitor (EMF-33) on the Condenser Steam Air Ejector (ZJ) System was declared inoperable.

Condition Prior to Occurrence: Mode 5, Cold Shutdown. Prior to initial criticality.

Description of Occurrence: Water was discovered in the sample line of EMF-33. The Shift Supervisor, therefore, declared the system inoperable. This was reportable pursuant to Technical Specification 3.3.3.9 and required implementation of Action Statement #37 of Table 3.3-13.

Apparent Cause: Improper design of loop seal on EMF-33 sample line.

Analysis of Occurrence: At 1125 hours on May 8, 1981, a Health Physics technician discovered the presence of water in the sample line of EMF-33. The Shift Supervisor declared the EMF inoperable at 1140 hours and instructed Health Physics to initiate a work request to have the system repaired.

The necessary repairs to return it to service were performed. The system was declared operable at 1350 hours on May 8, 1981.

Safety Analysis: Only new, non-irradiated fuel existed in the core at the time of this incident. Sample analysis of the Reactor Coolant (NC) and the ZJ Systems confirmed that no radiation levels above background were present. Thus, the safe operation of the plant and the health and safety of the public were not affected by this incident.

Corrective Action: Grab samples were taken and analyzed every eight hours as required by Action Statement #37 of Table 3.3-13. Health Physics initiated a work request to have the system repaired. The sample line was cleaned and the flow switch was adjusted from 8"w.c. to 2"w.c. in an attempt to reduce the vacuum of the system so that water would not be sucked into the pump. The length of the loop seal is to be modified to correct this deficiency.