

DUKE POWER COMPANY

POWER BUILDING

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

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

May 19, 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-369/81-60. This report concerns the Cold Leg Injection Accumulator ID being declared inoperable. This incident was considered to be of no significance with respect to the health and safety of the public.

Very truly yours,

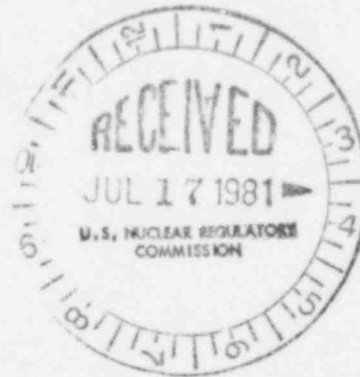
*William O. Parker Jr.*  
William O. Parker, Jr.

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, California 94303

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



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McGUIRE NUCLEAR STATION  
INCIDENT REPORT

Report Number: 81-60

Report Date: May 11, 1981

Occurrence Date: April 20, 1981

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

Identification of Occurrence: Cold Leg Injection Accumulator 1D was declared inoperable due to failed level instrumentation.

Condition Prior to Occurrence: Mode 3, Hot Standby

Description of Occurrence: On April 20, 1981, at 0233 hours, Channel 1 Cold Leg Injection Accumulator 1D Tank Level Indicator fluctuated and then failed high. Annunciator alarm, "ACCUM TNK D HI/LO LEVEL" was also actuated. The Shift Supervisor immediately declared the Cold Leg Injection Accumulator 1D inoperable. This placed the plant in a degraded mode of operation and was therefore reportable pursuant to Technical Specification 3.5.1.1.

Apparent Cause of Occurrence: The Channel 1 level instrumentation for Cold Leg Injection Accumulator 1D became inoperable because the appropriate level transmitter went bad.

Analysis of Occurrence: On April 20, 1981 at 0233 hours, the Reactor Coolant (NC) System was at 2235 psig and 557°F when Channel 1 Cold Leg Injection Accumulator 1D Tank Level Indicator fluctuated and then pegged high. The Shift Supervisor immediately declared the affected channel inoperable and initiated a priority 1 work request for corrective maintenance. It was found that the appropriate transmitter was bad and could not be repaired. Since there was no available spare for that type of transmitter (BARTON MODEL 396), the Supervisor initiated a temporary requisition to transfer the Unit 2 transmitter to Unit 1. Personnel tried to calibrate the transmitter several times but it failed due to bad internal components. During that time about 0923 hours, the action time limit required by Technical Specification 3.5.1.1 had expired, so cool down was started in order to decrease the NC system pressure to less than 1000 psig. On the afternoon of April 21, 1981, the transmitter was fixed, valved in and calibrated. The Cold Leg Injection Accumulator 1D was declared operable at 1630 hours on April 21, 1981.

Safety Analysis: Each of the four accumulator tanks have two independent level transmitters with their appropriate receiver gauges in the Control Room. When Channel 1 instrumentation for accumulator 1D was inoperable, the other channel was functioning properly and its receiver gauge was indicating the normal tank level. If the accumulator had been needed during that time, it would have functioned as designed. Hence, the safe operation of the plant and the health and safety of the public were not affected.

Corrective Action: A priority 1 work request was initiated immediately to provide the necessary corrective maintenance on the affected channel. The NC system pressure was decreased below 1000 psig when the time limit specified in the action statement of Technical Specification 3.5.1.1 expired without placing the affected level instrumentation back in service. A similar type of transmitter was removed from Unit 2 and installed for Channel 1 level instrumentation for accumulator 1D. The transmitter was calibrated and the Cold Leg Injection Accumulator was declared operable on April 21, 1981 at 1630 hours.