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SUBJECT: Special rept on 931208 containment hydroen monitoring unit
 #11 declared inoperable. Caused by loose limit switches
 which provide control room position indictation for vavle.
 201.7-03.

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December 21, 1993
NMP89364

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

RE: Nine Mile Point Unit 1
Docket No. 50-220
DPR-63

Subject: Special Report

Gentlemen:

In accordance with Nine Mile Point Unit 1 (NMP1) Technical Specification Table 3.6.11-1, "Accident Monitoring Instrumentation," Action Statement 4.a, Niagara Mohawk Power Corporation is submitting the following Special Report concerning the inoperability of the #11 Containment Hydrogen Monitoring Unit (HMS).

Description of Event

On December 8, 1993 at 0308 hours, with the reactor mode switch in the "RUN" position and the plant operating at approximately 100 percent of rated thermal power, the #11 HMS was removed from service. During the performance of procedure N1-ST-Q5, "Primary Containment Isolation Valve Operability Test," on a group of eight primary containment isolation valves on the #11 containment monitoring system, the "open-to close" time of one of these valves, i.e., valve 201.7-03, as measured in the control room, was 14.22 seconds. The Inservice Test (IST) limit is ≤ 8.5 seconds and the Technical Specification limit is ≤ 60 seconds. Procedure N1-ST-Q5 requires that all eight valves be declared inoperable if any one of them exceeds the IST limit. All eight of these valves are controlled by one switch. At 0308 hours on December 8, 1993, valve 201.7-03 was declared inoperable and closed, as were the seven other primary containment isolation valves, and, consequently #11 HMS was also declared inoperable and removed from service. Number 12 HMS remained in service.

Cause of Event

The limit switches which provide the control room position indication for valve 201.7-03 were found to be loose, causing a delay in the control room indication of the change from open to close. When the valve was cycled and timed locally, operation from open to close occurred in 2 seconds.

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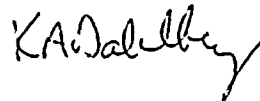
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The cause of the loose limit switches has not yet been determined but is being pursued as part of the resolution of a Deviation Event Report, written for this event. A number of other valves were successfully tested during the performance of procedure N1-ST-Q5 and no indications of loose limit switches were found.

Corrective Actions

The limit switches for valve 201.7-03 were tightened. Operations then re-performed procedure N1-ST-Q5 and valve 201.7-03 and the other seven valves successfully passed as a group, with an "open to close" time of 4.13 seconds as measured in the control room. At 1310 hours on December 8, 1993, valve 201.7-03 was declared operable and opened, along with the other seven primary containment isolation valves. Number 11 HMS was started, and after allowing a suitable warm up period, was returned to service at 1353 hours on December 9, 1993.

Very truly yours,



K. A. Dahlberg
Plant Manager - NMP1

KAD/JTP/lmc

xc: Mr. Thomas T. Martin, Regional Administrator, Region I
Mr. Barry S. Norris, Senior Resident Inspector



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