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SUBJECT: Special rept: on 940925, Div 2 RHRS HX SW RM 2SWP*CAB23B had been out of svc for 72 h due to tarnished RM flow switch, containing some sediment. Repairs & post-maint testing completed on 940926 & unit restored to svc.

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October 10, 1994
NMP2L0872United States Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555RE: Nine Mile Point Unit 2
Docket No. 50-410
NPF-69**Subject: Special Report**

Gentlemen:

In accordance with Nine Mile Point Unit 2 (NMP2) Technical Specification (TS) Table 3.3.7.5-1, "Accident Monitoring Instrumentation," action statement 81-b, Niagara Mohawk Power Corporation is submitting the following Special Report concerning the inoperability of the Division 2 Residual Heat Removal System (RHS) Heat Exchanger Service Water Radiation Monitor 2SWP*CAB23B.

Event Description

On September 22, 1994 at 0038 hours with the reactor mode switch in the "RUN" position (Operational Condition 1), and the plant operating at approximately 100 percent rated thermal power, the Division 2 RHS Heat Exchanger Service Water Radiation Monitor 2SWP*CAB23B was declared inoperable. An alternative radiation monitoring method was established as required in TS action statement 81-a.

On September 25, 1994 at 0038 hours, the RHS Heat Exchanger Service Water Radiation Monitor had been out of service for 72 hours. Failure to return this monitor to an operable status within 72 hours requires submission of this Special Report to the NRC within 14 days as specified by TS action statement 81-b.

Cause of Event

The problem was caused by radiation monitor flow switch, 2SWP*FS23B. It was found tarnished and contained some sediment which caused an erroneous low flow trip of the radiation monitor. Repairs and post-maintenance testing were completed on September 26, 1994 and the unit was restored to service. Following paperwork review and closure, the monitor was then declared operable on the morning of September 27, 1994 at 0835 hours.

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Actions Taken

I&C technicians removed the flow switch from the process piping, cleaned the sensor assembly, and reinstalled the unit into the Service Water piping. Manual flushing of the sample lines was performed by Radiation Protection technicians using procedure N2-RTP-130. Following this flushing activity, the sample pump was started and the monitor returned to service.

Preventive actions include upgrading the sample piping to all stainless steel piping as well as increasing the diameter of the sample line tap to the Service Water piping to 1.5 inches. This is being accomplished using Simple Design Change (SDC) SC2-0318-91, which is intended to raise system flow and thus improve reliability. The engineering for this SDC is in progress with implementation for both RHS Heat Exchanger Service Water Radiation Monitor trains to follow.

Very truly yours,



Kim A. Dahlberg
Plant Manager - NMP2

KAD/RLM/lmc

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

