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SUBJECT: Special rept:on 901126,diesel generator valid failure & two invalid failures occurred.Caused by relay contacts oxidizing resulting in ref leg of governor control circuit to vary.New relay installed.

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NMP73987

December 19 , 1990

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

RE: Docket No. 50-410
SPECIAL REPORT

Gentlemen:

In accordance with Nine Mile Point Unit 2 (NMP2) Technical Specification 4.8.1.1.3, we are submitting the following Special Report concerning a Diesel Generator valid failure and two invalid failures.

SURVEILLANCE REQUIREMENTS

Diesel Generator surveillance testing is performed on a monthly schedule (at least once per 31 days). The monthly testing interval is in conformance with Nine Mile Point Unit 2 Technical Specification 4.8.1.1.2-1, Diesel Generator Test Schedule. This is the first valid failure in the past 20 valid tests, with 4 failures in the last 100 valid tests in accordance with Regulatory Guide 1.108.

EVENT DESCRIPTION

On November 26, 1990, at 0110 hours, the Division I Diesel Generator (2EGS*EG1) was tested per Operating Procedure N2-OSP-EGS-R001, "Diesel Generator ECCS Start Division 1/2". At 0319 hours, the test data was reviewed to be unsatisfactory. Per Technical Specification 4.8.1.1.2.e.5.a, the Division I Diesel failed to meet frequency acceptance criteria (58.8 to 61.2 hertz) during the 5 minute surveillance run. The frequency dipped to a low of 57.993 hertz for 26 seconds.

In the course of troubleshooting, the Diesel Generator was started four times per N2-OSP-ESP-R001. Two of these troubleshooting runs resulted in frequency fluctuations.

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ROOT CAUSE

The post failure investigation revealed that relay (4LSYN1) contacts, located in the Diesel Generator Control Cabinet, had oxidized resulting in the reference leg of the governor control circuit to vary. As the reference leg signal varied, the speed of the Diesel Generator changed accordingly.

ACTIONS TAKEN

Once the 2EGS*EG1 test data was reviewed to be unsatisfactory, a Work Request (WR 191692) was written to investigate and troubleshoot.

Having identified the oxidized relay contacts as the causal factor for the Diesel Generator speed fluctuation, a new relay was installed in the Diesel Generator Control Cabinet.

On December 1, 1990, the Division I Diesel was retested per N2-OSP-EGS-R001. At 0939 hours, the test data was reviewed to be satisfactory. The time duration from when the test was performed unsatisfactory to the time the test was performed satisfactory was 126 hours and 20 minutes.

VALID TEST/FAILURE DETERMINATION

Investigation into the frequency fluctuation has determined the event to be a valid failure as per Regulatory Guide 1.108, Position C.2.e.(1). This determination is based on the fact that the test data illustrated a drop in frequency below the Technical Specification value (58.5 hertz) during the 5 minute surveillance run.

Two of the four troubleshooting runs resulted in 2 invalid failures per Regulatory Guide 1.108, Position C.2.e.(7).

Very truly yours,

Joseph F. Firlit
Vice President - Nuclear Generation

JFF/AC/lmc

xc: Thomas T. Martin, Regional Administrator Region I
William A. Cook, Sr. Resident Inspector