

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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SUBJECT: Special rept: on 871209, diesel generator valid test & valid failure.

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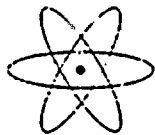
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NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

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THOMAS E. LEMPGES  
VICE PRESIDENT—NUCLEAR GENERATION

January 8, 1988

Mr. William T. Russell  
Regional Administrator  
United States Nuclear Regulatory Commission  
Region 1  
631 Park Avenue  
King of Prussia, PA 19406

RE: Docket No. 50-410  
SPECIAL REPORT

Gentlemen:

In accordance with Nine Mile Point Unit 2 Technical Specification 4.8.1.1.3, we are submitting the following Special Report concerning a diesel generator valid test and valid failure.

**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 Table 4.8.1.1.2-1, Diesel Generator Test Schedule. This is the first failure in the past 20 valid tests, with 3 failures in the 51 valid tests performed since completion of the reliability demonstration under Regulatory Guide 1.108 Position C.2.a(9).

**EVENT DESCRIPTION**

On December 9, 1987 at 2219 hours, the Division II Diesel Generator (2EGS\*EG3) was started per the Operating Surveillance Procedure N2-OSP-EGS-R002, "Operating Cycle Diesel Generator 24 Hour Run and Load Rejection Division I and II". At 2220 hours, 2EGS\*EG3 tripped on an incomplete starting sequence. The incomplete starting sequence resulted from the diesel generator not maintaining the required speed of 540 RPM following the start attempt.

The diesel generator was then secured.



#### ROOT CAUSE

Once 2EGS\*EG3 was secured, a work request (WR 129192) was written to investigate and troubleshoot.

The post-failure investigation revealed that the Woodward electric governor did not operate correctly. The governor had failed to provide proper speed sensing.

#### ACTIONS TAKEN

Having determined the failure of the electric governor to be responsible for the diesel generator trip, a new Woodward electric governor was installed. To determine the exact nature of the failure, the failed governor will be returned to the vendor for a failure analysis.


On December 14, 1987 at 0247 hours, 2EGS\*EG3 was restarted for surveillance testing per N2-OSP-EGS-R002. At 0420 hours on December 15, 1987 2EGS\*EG3 was secured, following successful completion of the surveillance test. Diesel generator 2EGS\*EG3 was inoperable for a total of 126 hours.

#### VALID TEST / FAILURE DETERMINATION

Investigation into the termination of the surveillance test has determined the event to be a valid test and valid failure. This determination is based on the fact that the test was automatically terminated due to the failed Woodward electric governor. This failure resulted in a diesel generator failure as stated under Regulatory Guide 1.108 Position C.2.e(6).

In conformance with Technical Specification Table 4.8.1.1.2-1, diesel generator surveillance testing will continue to be performed on a monthly schedule (at least once per 31 days).

Sincerely,



Thomas E. Lempges  
Vice President  
Nuclear Generation

TEL/JTD/mjd

xc: Document Control Desk ✓

