

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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SUBJECT: Special rept: on 920915, generator output voltage could not be manually changed by operator. Caused by K1 relay coil opening.

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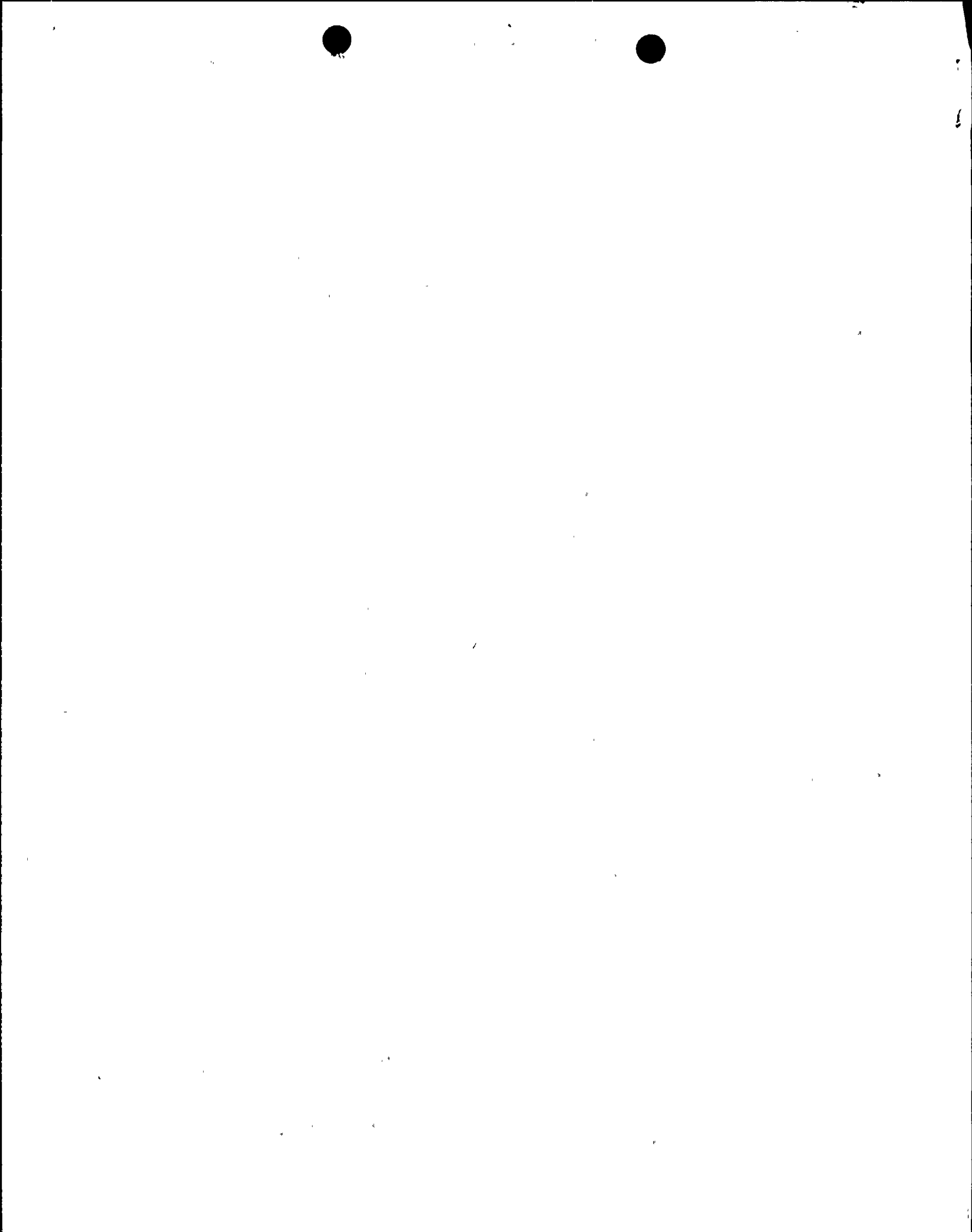
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Neil S. "Buzz" Cams  
Vice President  
Nuclear GenerationOctober 12, 1992  
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Document Control Desk  
Washington, DC 20555RE: Docket No. 50-410  
SPECIAL REPORT

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 one (1) non-valid test and non-valid failure of the Division II Standby Emergency Diesel Generator (2EGS\*EG3).

**SURVEILLANCE REQUIREMENTS**

Diesel Generator surveillance testing is normally performed on a monthly schedule (at least once per 31 days). This monthly testing interval is in conformance with NMP2 Technical Specification Table 4.8.1.1.2-1, "Diesel Generator Test Schedule." For this Diesel Generator there have been 0 failures in the last 20 starts and 2 valid failures in the last 100 valid tests in accordance with the test criteria set forth in Regulatory Guide 1.108.

**EVENT DESCRIPTION**

The Division II Diesel Generator was started on September 15, 1992 at 0355 hours in preparation for a 115 KV offsite power line outage. The Diesel Generator came up to rated speed and voltage within the required Technical Specification times. However, the generator output voltage could not be manually changed by the operator. The engine was then manually shutdown and Work Request (WR) #208997 was written to investigate the cause of the failure.

**ACTIONS TAKEN**

Deviation Event Report (DER) #2-92-3497 was initiated to evaluate the Division II Standby Emergency Diesel Generator failure to permit manual adjustment of generator output voltage and also to determine the reportability requirements of the failure. WR #208997 was written to investigate/repair the voltage adjustment problem. The investigation revealed relay K1 coil had failed open, requiring it to be replaced. This relay's function is to switch the automatic voltage regulator from the test mode to the emergency mode of operation. The relay fails to the emergency mode, therefore when the coil opened, the voltage regulator switched to the emergency mode maintaining a constant voltage of 4160. After replacement of the relay K1 coil, the Diesel Generator was satisfactorily started and the ability to manually vary voltage output was verified.

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United States Nuclear Regulatory Commission  
October 12 , 1992

**CAUSE OF EVENT**

The K1 relay coil opened, causing the automatic voltage regulator to fail to the emergency mode of operation. With the automatic voltage regulator in the emergency mode, the output voltage is maintained at a constant voltage of 4160. The voltage output cannot be varied in the emergency mode without additional control manipulations.

**NON-VALID TEST/NON-VALID FAILURE DETERMINATION**

Per Technical Specification 4.8.1.1.3, and Regulatory Guide 1.108, Position C.2.e(2), the failed surveillance test on Division II Standby Emergency Diesel Generator is not considered a valid test nor valid failure. The bases for this determination is that the malfunctioning automatic voltage regulator is not in the circuit when the diesel generator is operating in the emergency mode.

Very truly yours,



Mr. N. S. Carns  
Vice President - Nuclear Generation

NSC/AZP/lmc

pc: Mr. Thomas T. Martin, Regional Administrator Region I  
Mr. Wayne L. Schmidt, Senior Resident Inspector

