

METROPOLITAN EDISON COMPANY SUBSIDIARY OF GENERAL PUBLIC UTILITIES CORPORATION

OFFICE BOX 542 READING, PENNSYLVANIA 19603

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December 14, 1976
GQL 1719

Mr. J. P. O'Reilly, Director
Office of Inspection & Enforcement, Region 1
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Sir:

Three Mile Island Nuclear Station Unit 2, (TMI-2)
License No. CPPR-66
Docket No. 50-320
Makeup Pump Pressure Switch

On November 11, 1976, your office was verbally notified of a situation which Metropolitan Edison Company considered to be reportable in accordance with the requirements of 10CFR50.55(e). This letter constitutes the required thirty day follow-up letter and is submitted three days late due to a clerical error.

Description

The discharge pressure switch contacts for the make-up pumps will trip the pump if the pressure is below 2200 psig after a five second start-up time.

The discharge pressure switch for the makeup pump was originally intended to be a redundant indication of low suction pressure. It was set to clear an alarm and pump stop control function as discharge pressure exceeded 80 psig. If the pressure were to stay low, it would have been an indication of pump cavitation and therefore, low suction pressure. The original logic called for a low suction pressure alarm and pump trip after a time delay for coincident low suction and discharge pressure (a 2 signal interlock). Since low suction pressure is interlocked to prevent pump start-up or trip the pump if it is running by other control circuitry, the retention of this redundant control feature is not necessary.

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Analysis of Safety Implications

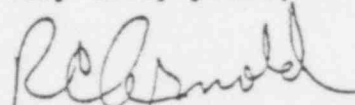
Under LOCA conditions, high pressure injection would not be available.

Corrective Action

The proposed corrective action for the make-up pump discharge pressure switch interlock problem is as follows:

- a. The Discharge Pressure Switch will be retained to alarm at about 2200 psig to alert the operator to a potential loss of RC Pump Seal injection water flow.
- b. The control function from this switch will be disconnected, as will the associated time delay relay and redundant suction pressure switch contacts.
- c. The pump will still be tripped on low suction pressure at any time.

Very truly yours,



R. C. Arnold
Vice President

RCA:CWS:dr

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