

January 14, 1987

Docket No. 50-410

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Mr. C. V. Mangan, Senior Vice President  
Niagara Mohawk Power Corporation  
301 Plainfield Road  
Syracuse, New York 13212

Dear Mr. Mangan:

Subject: Main Steam Isolation Valve Logic Modifications at Nine  
Mile Point, Unit 2

On December 3, 1986, a full scram occurred at Nine Mile Point Unit 2 (NMP-2) as a result of a loss of power to both reactor protection system (RPS) scram sensor buses. This event was caused by an overcurrent resulting from the crossing of loads in the MSIV logic circuit.

Alerted by this event, the NRC requested NMPC to meet with them on December 18, 1986, to discuss the details of the logic modifications to the main steam isolation valves (MSIVs). After reviewing the modifications performed on the MSIVs, and the additional proposed changes as a result of the December 3, 1986, event, at this meeting, the staff stated that the MSIV logic scheme was unacceptable and NMPC should propose additional changes. In a conference call on December 22, 1986, the staff further clarified its concern stating that because of the modified MSIV logic design, a fault could propagate back to both buses of the RPS. Therefore, the modified design does not meet the requirements of 10 CFR 50, Appendix A, General Design Criterion 21 and of IEEE Standard 279. At your request, the staff again met with NMPC on January 6, 1987 to discuss the MSIV logic design. After extensive discussion, the staff advised NMPC that it still could not conclude that NMPC's proposed design was acceptable. Additional details relating to the staff's review of the MSIV logic modifications discussed December 19, 1986, and January 6, 1987, are provided in the enclosed safety evaluation.

The issue of the MSIV logic must be resolved before initial criticality. Please contact the License Project Manager, Mary Haughey, at (301) 492-9422, if you have any questions concerning the enclosed safety evaluation or to discuss any proposed alternate MSIV logic arrangements.

Sincerely,

*RB*  
Robert M. Bernero, Director  
Division of BWR Licensing

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Enclosure:  
As stated

cc: See next page

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Nine Mile Point Nuclear Station  
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