NRC FORM 195 (2-76) | U.S. NUCLEAR REGULATORY COMMISSION | DOCKET NUMBER 50-410

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TO:	FROM:	DATE OF DOCUMENT
Mr. Benard C. Rusche	Niagara Mohawk Power Corp. Syracuse, New York Mr. Gerald K. Rhode	12/29/76
		DATE RECEIVED 1/3/77

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DESCRIPTION

Ltr. re our 6/25/76 ltr. and G.E.'s 9/30/76 and 12/21/76 ltrs....concerning Anticipated Transients Without Scram.

ENCLOSURE

ACKNOWLEDGED

DO NOT REMOVE

PLANT NAME: (2-P)

Nine Mile Point #2

SAFETY — FOR ACTION/INFORMATION — ENVIRO 1/6/77 — RJL

	ASSIGNED AD:			ASSIGNED AD:	
X	BRANCH CHIEF:	Varga (4)		BRANCH CHIEF:	
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				X	BRANAGI		SITE TECH.
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	ASLB:		CONSULTANTS:		
X	ACRS 16 CYS ~~HOLDING~~/SENT		Corr. B. (1/6/77)		

CONTROL NUMBER: 7 MAY 76

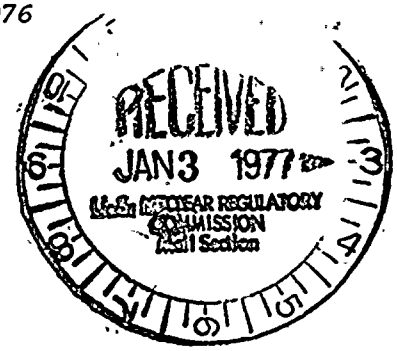
NRC FORM 195 (2-76)

NIAGARA MOHAWK POWER CORPORATION

NIAGARA MOHAWK

300 ERIE BOULEVARD WEST
SYRACUSE, N.Y. 13202

December 29, 1976



Mr. Benard C. Rusche, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Re: Nine Mile Point Unit 2
Docket No. 50-410

Dear Mr. Rusche:

In response to Mr. R. Boyd's letter of June 25, 1976, Niagara Mohawk Power Corporation proposes to resolve the issue of Anticipated Transients Without Scram by installation of an Alternate Reactor Scram System at Nine Mile Point Unit 2. The General Electric "BWR Scram System Reliability Analysis Report" dated September 30, 1976, provides a detailed description of the Alternate Reactor Scram System equipment and testing program.

The Nuclear Regulatory Commission criterion for resolution of this concern requires a demonstration that the scram system reliability is such that the probability of failure to scram is approximately 10^{-7} per year. The Alternate Reactor Scram System provides diverse and redundant hardware for those portions of the scram system where the most significant contribution to reliability can be achieved. Incorporation of an Alternate Reactor Scram System reduces the probability of failure to scram to approximately 4×10^{-8} per year. In addition, modification of the scram system provides optimum protection from common mode failures.

As indicated by the December 21, 1976 General Electric letter to the Nuclear Regulatory COmmission, resolution of Anticipated Transients Without Scram by mitigation would require an expenditure of approximately $28,000,000 per plant. This estimate does not include increased fuel costs and other allowances for funds during construction which may be attributable to delays in plant operation. Conversely, the cost for implementation of the Alternate Reactor Scram System is expected to be less than $500,000 per plant.

In summary, we believe that acceptable reliability can be demonstrated by installation of an Alternate Reactor Scram System and that mitigating systems are unnecessary. We concur with the Nuclear Regulatory Commission in its desire to resolve the Anticipated Transients Without Scram as soon as practical, and we remain available to discuss our proposal for resolution. Upon receipt of your concurrence with our proposal, we will proceed with the detailed design and implementation necessary to ensure the required scram reliability.

Sincerely,

NIAGARA MOHAWK POWER CORPORATION

GERALD K. RHODE
Vice President - Engineering

WRD/sz