
WOLFE S.
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$\frac{R}{\rho} = \frac{R_0}{\rho_0} \left(\frac{\rho_0}{\rho} \right)^{\frac{1}{n+1}}$

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NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

300 ERIE BOULEVARD, WEST
SYRACUSE, N. Y. 13202

April 17, 1978

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Director of Nuclear Reactor Regulation
Attn: Mr. George Lear, Chief
Operating Reactors/Branch #3
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

REGULATORY BUCKET FILE COPY

Gentlemen:

Re: Nine Mile Point Unit 1
Docket No. 50-220
DPR-63

Your letter of December 29, 1977 requested information concerning operation with one recirculation loop isolated at Nine Mile Point Unit 1. The attachment to this letter addresses itself to those concerns.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION



Donald P. Dise
Vice President-Engineering

MGM/szd

Attachment

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4001
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Question:

The idle loop startup transient has been analyzed in your FSAR from an initial power of 90.5 percent. Is 90.5 percent power the most severe initial power for the idle loop startup transient analysis? If not, revise the analyses using the most severe initial power level, or propose Technical Specification limitations restricting reactor power level to no more than 90.5 percent when in the four loop mode.

Response:

A generic sensitivity study has been performed to determine which transient events are limiting with respect to MCPR¹. The transients which are limiting because of MCPR primarily involve significant changes in power. These limiting transients fall into the following four categories:

- 1) Turbine trips or generator load rejection without bypass.
- 2) Loss of feedwater heating or inadvertent HPCI startup.
- 3) Feedwater controller failure (maximum demand).
- 4) Control rod withdrawal error.

These transients are all analyzed at 100 percent power except for control rod withdrawal error which is analyzed at greater than 75 percent power.

All other transients including startup of an idle recirculation loop have been determined to be less severe. The dependence of power level on the severity of the transient associated with the startup of an idle recirculation loop is within the envelope of the transient events listed above. Therefore, neither a revised analysis nor a Technical Specification requirement on power level is necessary for operation.

1

NEDE-24011P, "Generic Reload Fuel Application"
May, 1977

