

April 11, 1988

Docket No. 50-410

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

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Dear Mr. Mangan:

The Commission has issued the enclosed Amendment No. 4 to Facility Operating License No. NPF-69 for the Nine Mile Point Nuclear Station Unit 2 (NMP-2). The amendment consists of changes to the Technical Specifications in response to your application transmitted by letter dated February 3, 1988 (TAC 67173).

This amendment revises the allowable value and the isolation trip setpoint for the residual heat removal (RHR)/reactor core isolation cooling (RCIC) steam line flow-high in Table 3.3.2-2 of the Technical Specifications.

A copy of the related Safety Evaluation is enclosed. A Notice of Issuance will be included in the Commission's next regular bi-weekly Federal Register notice.

Sincerely,

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Mary F. Haughey, Project Manager  
Project Directorate I-1  
Division of Reactor Projects, I/II

Enclosures:

1. Amendment No. 4 to NPF-69
2. Safety Evaluation

cc: w/enclosures  
See next page

\*SEE PREVIOUS CONCURRENCE

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P PDR

Mr. C. V. Mangan  
Niagara Mohawk Power Corporation

Nine Mile Point Nuclear Station  
Unit 2

cc:

Mr. Troy B. Conner, Jr., Esq.  
Conner & Wetterhahn  
Suite 1050  
1747 Pennsylvania Avenue, N.W.  
Washington, D.C. 20006

Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, Pennsylvania 19406

Mr. Richard Goldsmith  
Syracuse University  
College of Law  
E. I. White Hall Campus  
Syracuse, New York 12223

Mr. Paul D. Eddy  
New York State Public Service  
Commission  
Nine Mile Point Nuclear Station -  
Unit 2  
P.O. Box 63  
Lycoming, New York 13093

Mr. Don Hill  
Niagara Mohawk Power Corporation  
Suite 550  
4520 East West Highway  
Bethesda, MD 20814

Mr. Richard M. Kessel  
Chair and Executive Director  
State Consumer Protection Board  
99 Washington Avenue  
Albany, New York 12210

Resident Inspector  
Nine Mile Point Nuclear Power Station  
P. O. Box 99  
Lycoming, New York 13093

Mr. Richard Abbott, Unit 2 Station  
Superintendent  
Nine Mile Point Nuclear Station  
Niagara Mohawk Power Corporation  
P. O. Box 32  
Lycoming, NY 13093

Mr. Gary D. Wilson, Esquire  
Niagara Mohawk Power Corporation  
300 Erie Boulevard West  
Syracuse, New York 13202

Mr. Thomas Perkins, General Supt.  
Nine Mile Point Nuclear Station  
Niagara Mohawk Power Corporation  
P. O. Box 32  
Lycoming, NY 13093

Mr. Peter E. Francisco, Licensing  
Niagara Mohawk Power Corporation  
301 Plainfield Road  
Syracuse, New York 13212

Ms. Donna Ross  
New York State Energy Office  
2 Empire State Plaza  
16th Floor  
Albany, New York 12223



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

NIAGARA MOHAWK POWER CORPORATION

DOCKET NO. 50-410

NINE MILE POINT NUCLEAR STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 4  
License No. NPF-69

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Niagara Mohawk Power Corporation (the licensee) dated February 3, 1988, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-69 is hereby amended to read as follows:

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PDR ADBCK 05000410  
PDR

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto, as revised through Amendment No. 4 are hereby incorporated into this license. Niagara Mohawk Power Corporation shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of the date of its issuance, and is to be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION

*Robert A. Capra*

Robert A. Capra, Director  
Project Directorate I-1  
Division of Reactor Projects, I/II

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: April 11, 1988

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 4 TO FACILITY OPERATING LICENSE NO. NPF-69

DOCKET NO. 50-410

Revise Appendix A as follows:

Remove Page

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Insert Page

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TABLE 3.3.2-2 (Continued)

ISOLATION ACTUATION INSTRUMENTATION SETPOINTS

<u>TRIP FUNCTION</u>	<u>TRIP SETPOINT</u>	<u>ALLOWABLE VALUE</u>
2. <u>RCIC Isolation Signals (Continued)</u>		
d. RCIC Turbine Exhaust Diaphragm Pressure - High	$\leq 10$ psig	$\leq 20$ psig
e. RCIC Equipment Area Temperature - High	$\leq 135^{\circ}\text{F}$	$\leq 140.5^{\circ}\text{F}$
f. RCIC Steam Line Tunnel Temperature - High	$\leq 135^{\circ}\text{F}$	$\leq 140.5^{\circ}\text{F}$
g. Manual Isolation Push Button [RCIC]	NA	NA
h. Drywell Pressure - High	$\leq 1.68$ psig	$\leq 1.88$ psig
i. RHR/RCIC Steam Flow - High	$\leq 37.4$ in. H <sub>2</sub> O	$\leq 40.73$ in. H <sub>2</sub> O
3. <u>Secondary Containment Isolation Signals</u>		
a. Reactor Building Above the Refuel Floor Exhaust Radiation - High	$\leq 2.36 \times 10^{-3}$ $\mu\text{Ci/cc}$	$\leq 2.46 \times 10^{-3}$ $\mu\text{Ci/cc}$
b. Reactor Building Below the Refuel Floor Exhaust Radiation - High	$\leq 2.36 \times 10^{-3}$ $\mu\text{Ci/cc}$	$\leq 2.46 \times 10^{-3}$ $\mu\text{Ci/cc}$

\* See Bases Figure B3/4 3-1.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 4 TO FACILITY OPERATING LICENSE NO. NPF-69  
NIAGARA MOHAWK POWER CORPORATION  
NINE MILE POINT NUCLEAR POWER STATION, UNIT NO. 2  
DOCKET NO. 50-410

INTRODUCTION

In a letter dated February 3, 1988, the licensee submitted a request to amend Table 3.3.2-2 of the Technical Specifications to revise the allowable value and the trip setpoint for the residual heat removal (RHR)/reactor core isolation cooling (RCIC) steam flow-high. As noted in Table 3.3.2-2 of the Technical Specifications as issued with the License on July 2, 1987, these values were preliminary values with the actual values to be determined during the startup test program.

EVALUATION

In its letter of February 3, 1988, the licensee requested the RHR/RCIC steam flow-high values be revised as follows:

	<u>New Values</u>	<u>Old Values</u>
Trip Setpoint	$\leq 37.4$ in. H <sub>2</sub> O	$\leq 96.0$ in. H <sub>2</sub> O
Allowable Value	$\leq 40.73$ in. H <sub>2</sub> O	$\leq 104.5$ in. H <sub>2</sub> O

The original setpoint was based on steam flow assumptions that overestimated the setpoint. The new setpoint is based on the as-built equipment configuration and actual steam flow. The differential pressure was determined by test for the system at normal operating conditions. The differential pressure corresponding to 100% rated flow was calculated by adjusting the test value for maximum steam flow, steam density at maximum flow, and the differential pressure to zero flow. The differential pressure equivalent to 125% rated flow was then computed based on the 100% rated flow value. The Technical Specification allowable value and trip setpoint for the RHR/RCIC steam flow-high were recalculated based on the analytical limit at the 125% rated flow condition as calculated from the test results. Allowances were made for drift, instrument accuracy and calibration accuracy in accordance with Regulatory Guide 1.105.

Inasmuch as the revised setpoint and allowable value for the RHR/RCIC steam flow-high are based on plant startup test results and the proposed new values are more conservative than the original values, the staff finds the proposed changes as discussed above acceptable.

ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the installation or use of the facility components located within the restricted areas as defined in 10 CFR 20. The staff has determined that this amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR Sec 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

CONCLUSION

We have concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Dated: April 11, 1988

PRINCIPAL CONTRIBUTOR:

M. Haughey