



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.

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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

