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 MANGAN, C. V. Niagara Mohawk Power Corp.
 RECIP. NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Forwards relief request re inservice testing program for current 10-yr interval & second 10-yr interval program plan submitted on 870402. Approval of relief for alternate testing to measure bearing temp requested by 870731.

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W. J. CHEEK
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July 8, 1987
(NMPIL 0169)

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555

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

Gentlemen:

In accordance with the provisions of 10 CFR 50.55a(g)(5), attached is a relief request for the Nine Mile Point Unit One Inservice Testing Program. This relief request applies to the current Ten Year Interval and to the Second Ten Year Interval Program Plan submitted on April 2, 1987. We request approval of this relief request by July 31, 1987.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION

C. V. Mangano
C. V. Mangano
Senior Vice President

KBT/pns
3210G
Attachment

xc: Regional Administrator, Region I
Mr. R. A. Capra, Director
Mr. R. A. Benedict, Project Manager
Mr. W. A. Cook, Resident Inspector

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Dear Mr. [Name obscured]

[Text obscured]

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NINE MILE POINT NUCLEAR STATION UNIT 1

7.0 Pump Relief Request
7.8 PR-8

SYSTEM: Reactor Liquid Poison

PUMP: NPO2A:NPO2B

CLASS: 2

FUNCTION: Provide a method of shutting down the reactor without the use of Control Rods.

TEST REQUIREMENTS: IWP-3500(b) Measure bearing temperature once per year.

BASIS FOR RELIEF: There are two high-pressure positive displacement liquid poison pumps. Each pump is designed to inject a quantity of boron which produces a concentration of 600 ppm of boron in the reactor core in less than 120 minutes. Only one pump is required to operate to achieve the design objective. This system would be used in the event of a massive failure of the Control Rods.

These pumps are tested monthly. Demineralized water is recirculated through the test tank by running each pump and throttling the discharge pressure to 1275 psig using a single manual gate valve. Pump vibration and bearing temperatures are measured at this time. However, due to the relatively small volume available in the test tank, the heat up rate of the pumped fluid exceeds the rate allowed for bearing temperature stabilization (IWP-3500 (b)). As a result, the bearing temperatures, which increase with the pumped fluid temperatures, do not stabilize causing the pumps to be run for the maximum test time of 2 hours. In addition, the test fluid temperatures attained following extended periods of pump operation are such that pump packing integrity is also jeopardized. Based on these considerations, we believe that bearing temperature measurements for these pumps are inconclusive and that running the pumps for extended periods as described above imposes undue degradation.

ALTERNATIVE TESTING: Pump vibration monitoring will be enhanced by measuring bearing vibration in the outboard horizontal, vertical and axial directions as well as the inboard horizontal and vertical directions (inboard axial direction inaccessible).

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