

October 6, 1986

Docket No. 50-220

Niagara Mohawk Power Corporation
Attn: Mr. C. V. Mangan
Senior Vice President
c/o Miss Catherine R. Seibert
300 Erie Boulevard West
Syracuse, New York 13202

Dear Mr. Mangan:

SUBJECT: RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION (TAC 60502)

Re: Nine Mile Point Nuclear Station, Unit No. 1

The Commission has issued the enclosed Amendment No. 88 to Facility Operating License No. DPR-63 for the Nine Mile Point Nuclear Station, Unit No. 1. This amendment is in response to your application dated January 3, 1986.

The amendment modifies the Technical Specifications (TS), Table 3.6.14-1 and Notes for Table 3.6.14-1, to include the addition of an explanatory phrase to clarify the intention of the phrase "at all times".

A copy of our related Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly Federal Register notices.

Sincerely,

~~Original~~ signed by:

John A. Zwolinski, Director
BWR Project Directorate #1
Division of BWR Licensing

Enclosures:

1. Amendment No. 88 to License No. DPR-63
2. Safety Evaluation

cc w/enclosures:
See next page

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Mr. C. V. Mangan
Niagara Mohawk Power Corporation

Nine Mile Point Nuclear Station,
Unit No. 1

cc:

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

NIAGARA MOHAWK POWER CORPORATION

DOCKET NO. 50-220

NINE MILE POINT NUCLEAR STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 88
License No. DPR-63

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Niagara Mohawk Power Corporation (the licensee) dated January 3, 1986, 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. DPR-63 is hereby amended to read as follows:

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(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 88, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



John A. Zwolinski, Director
BWR Project Directorate #1
Division of BWR Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: October 6, 1986

ATTACHMENT TO LICENSE AMENDMENT NO. 88

FACILITY OPERATING LICENSE NO. DPR-63

DOCKET NO. 50-220

Revise the Appendix A Technical Specifications by removing the pages identified below and inserting the attached pages. The revised pages are identified by the captioned amendment number and contain marginal lines indicating the area of change.

REMOVE

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INSERT

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Table 3.6.14-1
RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION

<u>Instrument</u>	<u>Minimum Channels Operable</u>	<u>Applicability</u>
1. Gross Radioactivity Monitors (a)		
A. Liquid Radwaste Effluent Line	1(c)	At all times (b)
B. Service Water System Effluent Line	1(d)	At all times (i) (
2. Flow Rate Measurement Devices		
A. Liquid Radwaste Effluent Line	1(e)	At all times
B. Discharge Canal	**	**
3. Tank Level Indicating Devices (g)		
A. Outside Liquid Radwaste Storage Tanks	1(f)	At all times

**Pumps curves or rated capacity will be utilized to estimate flow.

NOTES FOR TABLE 3.6.14-1

- (a) Provide alarm, but do not provide automatic termination of release.
- (b) An operator shall be present in the Radwaste Control Room at all times during a release.
- (c) With the number of channels operable less than required by the minimum channels operable requirement, effluent releases may continue provided that prior to initiating a release:
 - 1. At least two independent samples are analyzed in accordance with Specification 4.6.15.a, and
 - 2. At least two technically qualified members of the Facility Staff independently verify the release rate calculations and discharge line valving.Otherwise suspend release of radioactive effluents via this pathway.
- (d) With the number of channels operable less than required by the minimum channels operable requirement, effluent releases via this pathway may continue provided that, at least once per 12 hours, grab samples are collected and analyzed for gamma radioactivity at a lower limit of detection of at least 5×10^{-7} microcurie/ml.
- (e) During discharge, with the number of channels operable less than required by the minimum channels operable requirement, effluent releases via this pathway may continue provided the flow rate is estimated at least once per 4 hours during actual releases.
- (f) With the number of channels operable less than required by the minimum channels operable requirement, liquid additions to this tank may continue provided the tank liquid level is estimated during liquid additions to the tank.
- (g) Tanks included in this specification are those outdoor tanks that are not surrounded by liners, dikes or walls capable of holding the tank contents.
- (h) With the number of channels operable less than required by the minimum channels operable requirement, steam release via this pathway may commence or continue provided vent pipe radiation dose rates are monitored once per four hours.
- (i) Monitoring will be conducted continuously by alternately sampling the reactor building and turbine building service water return lines for approximately 15 minute intervals.

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SHIPPOTING AMENDMENT NO. 88 TO FACILITY OPERATING LICENSE NO. DPR-63

NIAGARA MOHAWK POWER CORPORATION

NINE MILE POINT NUCLEAR STATION, UNIT NO. 1

DOCKET NO. 50-220

1.0 INTRODUCTION

By application dated January 3, 1986, Niagara Mohawk Power Corporation (the licensee) requested an amendment to Appendix A of Facility Operating License No. DPR-63 for the Nine Mile Point Nuclear Station, Unit No. 1. The amendment would modify the Technical Specifications (TS) by adding an explanatory phrase to clarify the intention of the phrase "at all times" found in Table 3.6.14-1. Notes for Table 3.6.14-1 would be modified by adding footnote (i) which states that the intention of this phrase is to continuously monitor the Service Water System effluent line by alternately sampling the reactor building and turbine building service water return lines for approximately 15 minute intervals.

2.0 EVALUATION

Niagara Mohawk proposes to install a new monitor to sample effluent from the reactor building and turbine building service water return lines. Taps will be installed in the reactor building and turbine building service water return lines and effluent piped to the new monitor. From the monitor, the effluent will be returned to the discharge tunnel. A "stream selector" will be used to periodically (approximately every 15 minutes) switch between the two effluent lines being monitored. The "stream selector" will alternately open one of the air operated valves and close the other air operated valve.

The monitor will alarm in the control room to alert the operator that action has to be taken to comply with Technical Specification 3.6.14 requirements. In addition, the computer point for the high radiation alarm will identify the effluent line being monitored by identifying the selector valve (air operated valve) which is open at the time.

In addition, the reactor building and turbine building service water return lines are nonsafety related. Therefore, the piping, valves and monitor are nonsafety related. In accordance with Regulatory Guide 1.143, the piping valves and miscellaneous couplings will be designed, fabricated, installed and inspected to the requirements of ANSI B31.1.

The proposed amendment incorporates an explanatory phrase clarifying the intent of the technical specification requirement. This phrase provides for the alternate sampling of the reactor building and turbine building service water return lines. Interpreting the phrase to include monitoring conducted with approximate 15 minute time intervals on alternate return lines will provide the necessary monitoring and additional diagnostic data required by the TS, and is therefore acceptable.

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3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change to a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the 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 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement nor environmental assessment need be prepared in connection with the issuance of this amendment.

4.0 CONCLUSION

The staff has 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 this amendment will not be inimical to the common defense and security nor to the health and safety of the public.

Principal Contributor: J. Kelly

Dated: October 6, 1986