

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of)
)
NIAGARA MOHAWK POWER CORPORATION)
(Nine Mile Point Nuclear Station)
Unit No. 1))

Docket No. 50-220

APPLICATION FOR AMENDMENT TO OPERATING LICENSE

Pursuant to Section 50.90 of the regulations of the Nuclear Regulatory Commission, Niagara Mohawk Power Corporation, holder of Facility Operating License No. DPR-63, hereby requests that Section 2.3.1 of the Environmental Technical Specifications set forth in Appendix B to that License be amended. This proposed change has been reviewed by the Site Operations Review Committee and Safety Review and Audit Board.

The proposed Environmental Technical Specification change is set forth in Attachment A to this Application. Supporting Information, which demonstrates that the proposed specification change does not involve a significant hazards consideration, is set forth in Attachment B. The proposed specification change would not authorize any significant change in the types or any significant increase in the amounts of effluents or any change in the authorized power level of the facility. Justification for classification of the amendment pursuant to 10 C.F.R. Section 170.22 is included as Attachment C. A check for the appropriate fee accompanies this Application.

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WHEREFORE, Applicant respectfully requests that Appendix B to Facility Operating License No. DPR-63 be amended in the form attached hereto as Attachment A.

NIAGARA MOHAWK POWER CORPORATION

By Donald P. Dise
Donald P. Dise
Vice President - Engineering

Subscribed and sworn to
before me on this 29 day
of August, 1979.

Cynthia A. Petta
NOTARY PUBLIC

CYNTHIA A. PETTA
Notary Public in the State of New York
Qualified in Onondaga Co. No. 4682225
My Commission Expires March 30, 1980



ATTACHMENT A

Niagara Mohawk Power Corporation

License No. DPR-63

Docket No. 50-220

PROPOSED CHANGES TO FACILITY OPERATING LICENSE

Attached are revised Pages i and 10 of Appendix B to Facility Operating License DPR-63. The marginal markings indicate the specific changes to the text.



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2.3 Chemical

2.3.1 Treatment of Main Condenser Cooling Water

OBJECTIVE

The purpose of this Specification is to protect the quality and purity of Lake Ontario waters.

SPECIFICATION

Treatment of the main condenser cooling water shall be limited to a total of 10 parts per million (ppm, by volume) of chemical cleaning agent and microbio dispersant. All chemical cleaning agents and microbio dispersants shall be approved by the U. S. Environmental Protection Agency prior to use.

MONITORING REQUIREMENT

Prior to injecting chemical cleaning agents or microbio dispersants, the flow rate of the main condenser cooling water shall be determined. A calculation shall then be performed to determine the maximum amount of chemical and/or microbio dispersant which can be applied without exceeding the specification of 10 ppm. All applications of dispersant chemicals shall be measured and recorded to verify compliance with this Specification.

BASES

Addition of no more than 10 ppm of chemical cleaning agents or microbio dispersants will not adversely affect the water of Lake Ontario. Therefore, adherence to this Specification shall ensure that lake water quality is not jeopardized by the injection of condenser cooling water cleaning chemicals.

The Monitoring Requirement will verify compliance with this Specification.



ATTACHMENT B

Niagara Mohawk Power Corporation

License No. DPR-63

Docket No. 50-220

SUPPORTING INFORMATION

Recent analysis of deposits from the main condenser tubing at Nine Mile Point Unit 1 indicates that condenser fouling conditions are caused by microbio and inorganic deposits. The purpose of changing Section 2.3.1 of Appendix B to the Facility Operating License is to allow chemical treatment of the condenser tubing to eliminate this fouling condition.

A treatment program has been approved by U. S. Environmental Protection Agency Region II and the New York State Department of Environmental Conservation. Copies of the approvals by these agencies are attached. All surveillance data required by these approvals will be provided to the Nuclear Regulatory Commission.

If there is any revision to this treatment program, U. S. Environmental Protection Agency and New York State Department of Environmental Conservation approval will be obtained, prior to implementation.



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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II

26 FEDERAL PLAZA
NEW YORK, NEW YORK 10007

August 14, 1979

Mr. J. M. Toennies
Environmental Affairs Director
Niagara Mohawk Power Corporation
300 Erie Boulevard West
Syracuse, New York 13202

Re: NPDES Permit No. NY0001015
Nine Mile Nuclear Station Unit 1

Dear Mr. Toennies:

Reference is made to your July 27, 1979 letter to Mr. Richard A. Baker concerning the control of fouling conditions on the cooling water side of the Nine Mile Point Unit 1 main surface condensers.

In the above-referenced letter, it was indicated that Niagara Mohawk has found it necessary to institute chemical treatment at Nine Mile Point Unit 1 to prevent fouling of the condenser tubes (see above). As a result, Niagara Mohawk has requested permission to conduct a chemical treatment program which will test the effectiveness of two Nalco Chemical Company products, Nalsperse 7348 and Nalco 7388, a non-ionic dispersant and an aqueous polyacrylate salt, respectively, in preventing fouling conditions. It was indicated that these two substances will be added simultaneously for ten minutes every eight hours at a dosage of 2 ppm for each product. Attached to the above-referenced letter was information on the two Nalco products, including toxicity information. It was further stated that the program would last for two weeks.

After (1) reviewing the information submitted by Niagara Mohawk, (2) reviewing additional information on the toxicity of Nalsperse 7348 provided to this writer by Nalco Chemical Company, and (3) based upon information obtained from New York State Electric and Gas Corporation's (NYSE&G) Nalsperse 7348 testing program at its Hickling Station (which began approximately two weeks ago),

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AUG 20 1979

NEW YORK



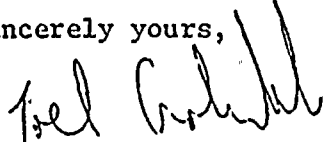
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Region II has decided upon the following course of action (The NYSDEC has been consulted on this matter and has indicated to this writer that it concurs with the course of action specified below.):

1. Niagara Mohawk is hereby given approval to commence the above-referenced chemical treatment program, effective August 13, 1979; this program should last for not longer than one month; for the duration of the chemical treatment program, Condition 10(b)(1)(d) of the NPDES permit for Nine-Mile Point Unit 1 will be stayed; this condition prohibits the addition of any algicides to the Unit 1 cooling water system;
2. Niagara Mohawk will, to the extent that it is possible, control the dosage of Nalsperse 7348 and Nalco 7388 at a maximum level of 2 ppm for each substance; however, under no circumstances shall the dosage of each substance exceed a maximum level of 10 ppm; at least two grab samples of oil and grease in the effluent shall be taken during the chemical treatment program; the sampling results shall be submitted to EPA Region II and the NYSDEC;
3. Niagara Mohawk will conduct a biological monitoring survey to determine the effects, if any, of Nalsperse 7348 and Nalco 7388 on those aquatic organisms present in the area of the discharge; the specific survey conducted will be agreed upon by Niagara Mohawk, the NYSDEC and EPA Region II; it will commence as soon as possible and continue to the end of the chemical treatment testing program; the results of this survey shall be submitted to EPA Region II and the NYSDEC, and shall be used to determine if Niagara Mohawk should be given permission to institute the chemical treatment program on a long-term basis.

If you have any questions concerning this matter, please do not hesitate to communicate them to me (Tel. No. 212-264-2990).

Sincerely yours,

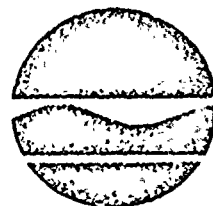

Joe Golumbek
Toxic and Inorganic Wastes Section
Water Facilities Branch

cc: Ms. Cheryl Blum
Niagara Mohawk Power Corporation

Mr. Alan Geisendorfer
New York State Department of
Environmental Conservation



New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York, 12233
Division of Pure Waters



Robert F. Flacke,
~~XXXXXXXXXXXX~~
Commissioner

August 16, 1979

Mr. Jack M. Toennies
Environmental Affairs Director
Niagara Mohawk Power Corporation
300 Erie Boulevard West
Syracuse, New York 13202

Re: Nine Mile Point Unit #1
NY 000 1015

Dear Mr. Toennies:

Approval is hereby given to conduct a chemical treatment program to control cooling water fouling conditions at Nine Mile Unit #1 by the use of NALCO chemical dispersants #7348 and #7388 as described in your letter of July 27, 1979.

Approval is conditioned on the following:

- a. A bioassay program shall be conducted which includes a static assessment of invertebrates and which is acceptable to Department and EPA biologists.
- b. The effluent shall be monitored for oil and grease.

Additional requirements may be added, including a more detailed description of the chemicals comprising the two NALCO compounds, should further information be determined to be necessary by this agency.

If you have any further questions, please call me at 518-457-6717.

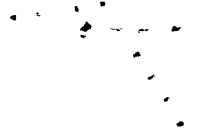
Very truly yours,

Walter E. Loveridge

Walter E. Loveridge
Chief
Physical Systems Section

WEL/ANG/lis

cc: Mr. Skinner
cc: Mr. J. Columbek, EPA
cc: Mr. Turkki, Region #7



ATTACHMENT C

Niagara Mohawk Power Corporation

License No. DPR-63

Docket No. 50-220

Amendment Classification

The proposed amendment to the Operating License has been evaluated and determined to fall within the definition of Class II of 10 C.F.R. 170.22, thereby requiring a fee of twelve hundred dollars (\$1,200.00).

The amendment for Nine Mile Point Unit 1 is administrative in nature and involves no safety or environmental significance.



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