

ENVIRON

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Docket No. 50-410

Niagara Mohawk Power Corporation
ATTN: Mr. Thomas J. Brosnan
Vice President and Chief Engineer
300 Erie Boulevard West
Syracuse, New York 13202

Gentlemen:

As a result of our site visit of September 19, 1972 and our continuing environmental review of the Nine Mile Point Station Unit 2, we find that additional information is required. The enclosure to this letter describes the required information. The questions are numbered in seriatim with previous request for information.

In order to maintain our licensing review schedule it is essential that we have completely adequate responses by the following dates: for all items except 5.12 - October 30, 1972; for item 5.12 - November 20, 1972. Please inform us within seven days after receipt of this letter of your confirmation of the schedule or the date you will be able to meet. If you cannot meet our date, or if your reply is not fully responsive to our request, it is highly likely that the overall schedule for completing the licensing review for this project will have to be extended. Since reassignment of the staff's efforts will require completion of the new assignment prior to returning to this project, the extension will most likely be greater than the extent of delay in your response.

Sincerely,

Original signed by
George W. Knighton

Daniel R. Muller, Assistant Director
for Environmental Projects
Directorate of Licensing

Enclosure:
Additional Information Requested

cc: James McGranery, Esquire
LeBoeuf, Lamb, Leiby & MacRae
1821 Jefferson Place, N. W.
Washington, D. C. 20036

OFFICE ▶	L:EP-1 JNorris dtc	L:EP-1 GKnighton	L:EP DMuller			
SURNAME ▶	JNorris	GKnighton	DMuller			LP
DATE ▶	10/2/72	10/2/72	10/2/72			

MEMORANDUM

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TO : [Illegible]

FROM : [Illegible]

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Original signed by
George W. Knigton

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ADDITIONAL INFORMATION REQUESTED FOR THE NINE MILE POINT NUCLEAR
STATION UNIT 2 ENVIRONMENTAL REVIEW

1. BIOLOGICAL

- 1.23 Provide information on the frequency of rotation of traveling screens during normal operation and the length of time the screens can be operated continuously should the situation demand.
- 1.24 Explain how the bars in the bar racks of the offshore intake function as louvers in helping fish to avoid the intake.
- 1.25 Provide criteria used for establishing length of each transect for each phase of biological sampling (e.g., gill net surveys, fathometric surveys, benthic sampling).

2. CHEMICAL AND SANITARY EFFLUENTS

- 2.5 Discuss the possibility of discharging treated sewage into the circulating water stream.
- 2.6 Identify what chemicals will be required for water treatment in the alternative cooling methods (cooling tower and cooling pond).
- 2.7 Provide estimate of the concentration in the mixing zone of chemicals added through the discharge tunnel.

5. COOLING SYSTEM

- 5.8 Provide rationale for choice of a condenser with a ΔT of 31°F.
- 5.9 Identify locations where the temperatures shown in Figure 2.5-1 of the Environmental Report were taken.
- 5.10 Identify the reference source for the circulation pattern shown in Figure 2.5-2.
- 5.11 Define and identify the mixing zone. Estimate volume of water in the mixing zone.
- 5.12 Provide complete results from the hydraulic modeling studies.

6. GENERAL

- 6.3 List all permits and licenses required for NMP-2. Provide status of same.



- 6.4 Provide information on the extent of sport fishing in the Nine Mile Point area. Identify the location of the nearest boat landing.
- 6.5 Describe the extent of the shoreline which will be accessible to the public after completion of construction of Nine Mile Point #2. Include also Nine Mile Point #1 and FitzPatrick shorelines.

7. NEED FOR POWER

- 7.1 Provide the definition of reserve margin used by the Niagara Mohawk Power Corporation.
- 7.2 Provide details of the method of calculation of reserve margin in Niagara Mohawk franchise area.
- 7.3 Furnish data for the installed generating capability, net purchases of power, adjusted capability, peak load, and reserve capability of the company for each year from 1960 through 1971 in summer and winter periods. Provide also projected data for the period of 1972-1980.
- 7.4 Provide projections for Niagara Mohawk power sales and power purchases for 1972-1980.
- 7.5 Indicate the rate of population growth in the company's franchise area; include detailed data for the period of 1950-1970.
- 7.6 Indicate a) what major transmission lines are owned and operated by Niagara Mohawk Power Corporation, b) what are the locations of interconnections with other transmission lines. (Transmission lines in the New York Power Pool map are not identifiable by company).
- 7.7 Provide date for start of operation of Oswego 6 power plant. Discuss how will this increased capability effect projected power needs.
- 7.8 Indicate what units will be retired in the period 1970-1980.
- 7.9 Furnish data on Niagara Mohawk power sales for the period 1960-1971.
- 7.10 Provide information on the power supply situation for the New York Power Pool as a whole similar to the information given in Table 1.2-2 of the Environmental Report.
- 7.11 List the names, sizes and fuel types of the power plants in Niagara Mohawk system; give also the present and anticipated rating.

