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C. J. DeBevec, DRL
R. M. Diggs, DRL
D. Thompson, DRL
R. H. Vollmer, DRL
E. G. Case, DRS

Docket No. 50-220

Niagara Mohawk Power Corporation
ATTN: Mr. Minot H. Pratt
Vice President and
Executive Engineer
300 Erie Boulevard West
Syracuse, New York 13202

Gentlemen:

In reviewing your application dated April 20, 1970, which proposes a power increase for the Nine Mile Point Nuclear Station (NMP), we find that additional information is necessary to complete our evaluation. The specific information requested is described in the enclosure.

In addition, we note that Provisional Operating License (POL) No. DPR-17 for NMP will expire on February 22, 1971, or upon the earlier issuance of a full-term license. Please indicate your plans regarding the application for a full-term license, including your schedule for submission.

Please contact Messrs. C. DeBevec or D. L. Ziemann if you desire additional discussion or clarification of any of the information requested.

Sincerely,

Original signed by
Peter A. Morris

Peter A. Morris, Director
Division of Reactor Licensing

Enclosure:
Request for Additional
Information

cc: Arvin E. Upton, Esquire
LeBoeuf, Lamb, Leiby & MacRae

Apply
C

OFFICE ▶	DRL	DRL	DRL	DRL	DRL	DRL
SURNAME ▶	CDeBevec:sjg/pl	RMDiggs	DLZiemann	DJskovholt	ESchroeder	PAMorris
DATE ▶	9/25/70	9/25/70	9/25/70	9/25/70	9/25/70	9/25/70

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REQUEST FOR ADDITIONAL INFORMATION
PERTAINING TO APPLICATION FOR POWER INCREASE
OF NINE MILE POINT NUCLEAR STATION

1. Our review of the proposed instrumentation modifications indicates that the turbine control valve fast closure scram can be defeated by failure of a single acceleration relay and that physical independence is not apparent for the four redundant pressure switches which respond to turbine first-stage pressure and affect the automatic removal of the bypass at power levels above 45% of design rating. Provide additional information justifying, or modifying, the proposed turbine control valve fast closure scram circuitry and describing the physical independence of the turbine first-stage pressure sensors.

2. The information which you submitted by letter dated July 2, 1970, is insufficient to permit evaluation of the effects of failure of a pressure vessel nozzle safe end on the biological shield or shield plugs. In this regard:
 - a. Provide details of construction and appropriate detailed sketches of the biological shield and its load-bearing steel members. Indicate the assumptions made and the calculational methods used to determine the capability of the shield to withstand an internal pressure of 96 psi.

 - b. Describe the calculational methods, including the venting assumptions, and the transient pressure distributions, which were used to determine that the maximum pressure rise in the biological shield in the event of a postulated double-ended break of a recirculation line at the safe end is approximately 40 psi.

 - c. Provide an analysis of the effects of a break of the pressure vessel recirculation nozzle safe end on the shield wall and on the shield gates at the penetrating pipes. Consider the potential for generating missiles or jet forces which could jeopardize the integrity of the containment shell, or engineered safety system components.

OFFICE ▶					
SURNAME ▶					
DATE ▶					



The following information was obtained from a review of the files of the
 Internal Security - Communist Section, New York Office, dated 10/15/54:

[The remainder of the page contains extremely faint and illegible text,
 which appears to be a list or report of names and associated information.]

Docket No. 50-220

Niagara Mohawk Power Corporation
ATTN: Mr. Minot H. Pratt
Vice President and
Executive Engineer
300 Eric Boulevard West
Syracuse, New York 13202

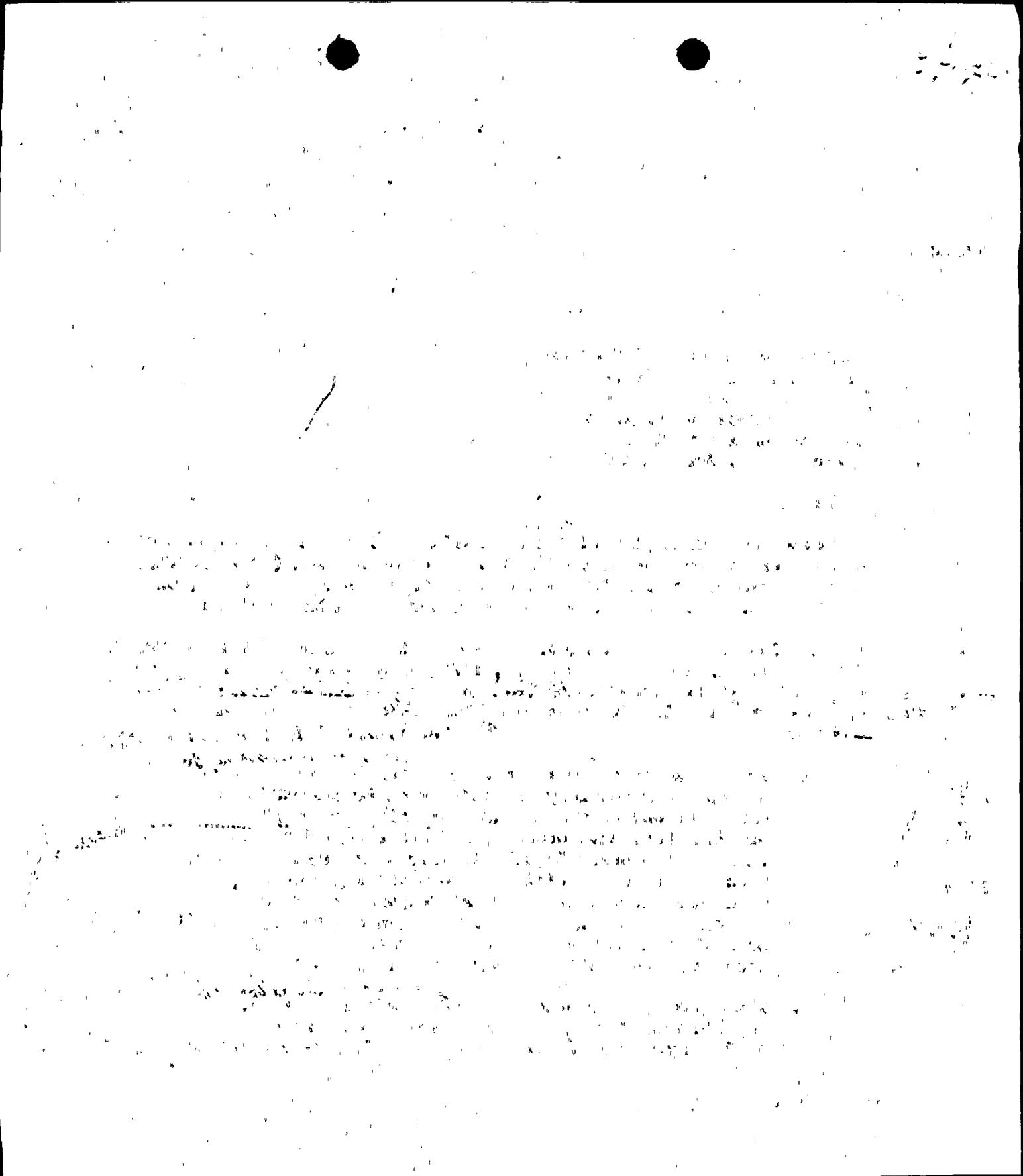
Gentlemen:

In reviewing your application dated April 20, 1970, which proposes a power increase for the Nine Mile Point Nuclear Station (NMP), we find that additional information is necessary to complete our evaluation. The specific information requested is described in the enclosure.

In addition, we note that Provisional Operating License (POL) No. DPR-17 for NMP will expire on February 22, 1971, or upon the earlier issuance of a full-term license. ~~To provide guidance in the preparation of an application for a full-term license, the following suggestions are offered.~~ ^{the} ~~offereds.~~ ^{↑ should include the following information:}

1. The application should provide a ^{information obtained to} detailed review of the NMP operating history, including ~~confirmation of~~ design bases and objectives, and ~~the~~ ^{discussion of} significance of plant problems that have occurred and the remedial actions taken. It should discuss significant changes that have been made to the facility or to operating procedures since the Final Safety Analysis Report was prepared; however, it is not necessary to include extensive details of design and analysis of changes that previously have been submitted to the Commission for approval.
2. The application should discuss ^{your evaluation of} the adequacy of your organization during the POL period, including onsite staff, technical support groups and advisory committees.

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your actions in response to

3. The status of previous comments and recommendations by the AEC and the Advisory Committee on Reactor Safeguards concerning NMP should also be discussed in your application.

may be provided
~~The application may incorporate, where appropriate, the above indicated information by specific reference to information already submitted or being submitted in support of the currently proposed power increase.~~

No TP
~~We request that you provide an early indication of your plans regarding the application for a full-term license, or extension of the provisional license, including a schedule of submissions. Please contact Messrs. C. DeBevec or D. L. Ziemann if you desire additional discussion or clarification of this matter or of the additional material requested, in the enclosure.~~

Please indicate

*any of the information
 your for*

Sincerely,

Peter A. Morris, Director
 Division of Reactor Licensing

Enclosure:
 Request for Additional
 Information

cc: Arvin E. Upton, Esquire
 LaBoeuf, Lamb, Leiby & MacRae
 1821 Jefferson Place, N. W.
 Washington, D. C. 20036

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SURNAME ▶	<i>CD</i> CJDeBevec:s	<i>EMD</i> gRM Diggs	<i>DLZ</i> DLZiemann	<i>RAW</i> DJSkovholt	FSchroeder	PAMorris
DATE ▶	9/23/70	9/23/70	9/23/70	9/23/70	9/ /70	9/ /70

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REQUEST FOR ADDITIONAL INFORMATION
PERTAINING TO APPLICATION FOR POWER INCREASE
OF NINE MILE POINT NUCLEAR STATION

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- b. Describe the ~~base~~, including the venting assumptions ^{and} the transient pressure distributions, ~~and the calculational methods~~, which were ^{used} applied to ~~demonstrate~~ ^{determine} that the maximum hypothetical pressure rise in the biological shield in the event of a postulated double-ended recirculation line ~~break~~ ^{break of a} at the safe end is approximately 40 psi.
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SURNAME ▶					
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