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 SYLVIA, B.R. Niagara Mohawk Power Corp.
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SUBJECT: Addresses NRC 910405 request for addl info to complete review of application for amend to License NPF-69 re hydrogen & oxygen storage sys & chlorine use for water treatment.

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B. Ralph Sylvia
Executive Vice President
Nuclear

May 20, 1991
NMP2L 1300

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

Re: Nine Mile Point Unit 2
Docket No. 50-410
NPF-69
TAC No. 79806

Gentlemen:

By letter dated April 5, 1991, the NRC staff requested additional information to complete its review of Niagara Mohawk's application for amendment to the Nine Mile Point Unit 2 Operating License. Niagara Mohawk hereby responds to the request. Each of the two items contained in the request is addressed separately below.

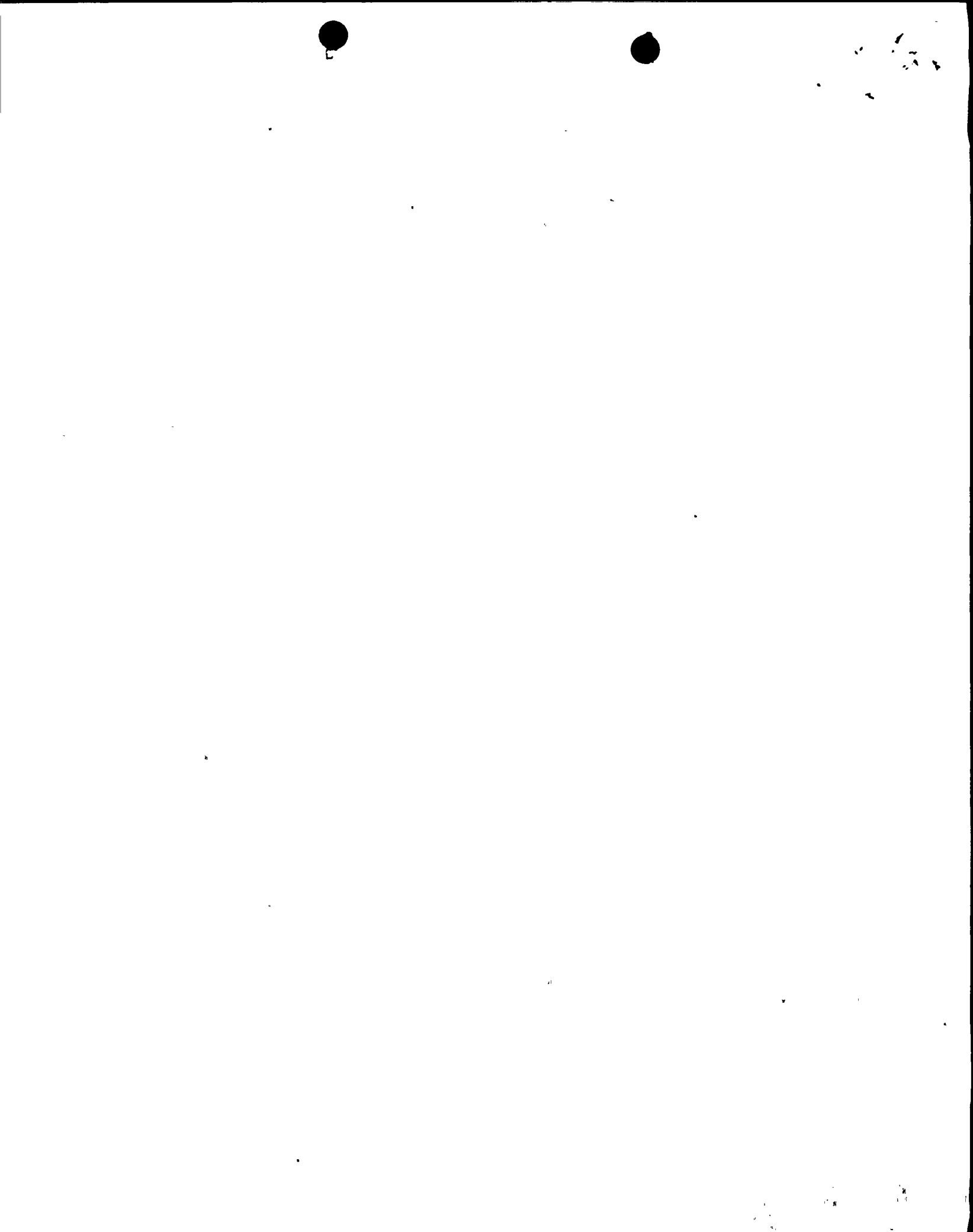
1. Provide information regarding the hydrogen and oxygen storage systems.

The pre-implementation test is expected to last approximately one month. The hydrogen will be stored in five standard size (130,000 cubic ft.) tube trailers. Only two trailers will be on site at one time. The trailers will be connected by dual manifold and will be electrically grounded. An excess flow check valve on the hydrogen supply line will be provided. All transport systems will be purged with nitrogen prior to hydrogen introduction, prior to disconnecting any portion of the hydrogen addition system, and prior to restart following reassembly. The hydrogen and oxygen supplies will be located consistent with fire protection requirements. Administrative controls will ensure that access to storage areas is controlled.

A Fire Protection Review of the location and temporary storage of hydrogen and oxygen for the hydrogen water chemistry pre-implementation test has been performed. The review has concluded that the pre-implementation test will comply with the applicable parts of NFPA Standards and Branch Technical Position CMEB 9.5-1 of NUREG 0800, Standard Review Plan.

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Although temporary in nature, the pre-implementation test will comply with the applicable oxygen and hydrogen storage guidelines of the BWR Owners Group "Guidelines for Permanent BWR Hydrogen Water Chemistry Installations", 1987 Revision, except as described in (a) and (b) below.

- (a) The storage vessels and foundations will not be designed for design basis tornado and site-specific flood conditions. Both the hydrogen and oxygen will be stored in temporary facilities (trailer trucks). However, the hydrogen will be stored in an area already used for hydrogen storage within the site boundary. The oxygen will be stored at least 150 feet from the hydrogen storage area.
- (b) The BWROG Guideline requires 130 feet of separation from the nearest structure assuming a cylinder failure. This requirement is met except for separation from the service water tunnel which is located below grade and is not expected to be affected by a potential fire ball from the stored hydrogen.

2. Is chlorine used for water treatment at Nine Mile Point Unit 2? If so, discuss the precautions for eliminating a simultaneous chlorine and hydrogen release.

Gaseous chlorine is not used for water treatment at Nine Mile Point Unit 2.

Pursuant to 10CFR50.91 (b)(1), Niagara Mohawk has provided a copy of this additional information to the appropriate state representative.

Very truly yours,



B. Ralph Sylvia
Exec. Vice President-Nuclear

JB/mls

xc: Regional Administrator, Region I
Mr. W. A. Cook, Senior Resident Inspector
Mr. R. A. Capra, Project Directorate No. I-1, NRR
Mr. D. S. Brinkman, Project Manager, NRR
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Records Management



UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of]
Niagara Mohawk Power Corporation] Docket No. 50-410
(Nine Mile Point Unit 2)]

AFFIDAVIT

B. Ralph Sylvia, being duly sworn, states that he is Exec. Vice President of Niagara Mohawk Power Corporation; that he is authorized on the part of said Corporation to sign and file with the Nuclear Regulatory Commission the documents attached hereto; and that all such documents are true and correct to the best of his knowledge, information, and belief.

NIAGARA MOHAWK POWER CORPORATION

B. Ralph Sylvia
B. Ralph Sylvia
Exec. Vice President-Nuclear

Subscribed and sworn to before me, a Notary Public in and for the State of New York and County of Oswego, this 20 day of May, 1991.

Beverly W. Ripka
Notary Public in and for
Oswego County, New York

BEVERLY W. RIPKA
Notary Public State of New York
Qual. in Oswego Co. No. 4644879
My Commission Exp. Mar 30 1992
2/28/92

My Commission Expires:
2/28/92

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