

Mr. John H. Mueller
Chief Nuclear Officer
Niagara Mohawk Power Corporation
Nine Mile Point Nuclear Station
Operations Building, Second Floor
P.O. Box 63
Lycoming, NY 13093

October 27, 1998

SUBJECT: SUPPLEMENTAL REQUEST FOR ADDITIONAL INFORMATION REGARDING
INCREASED SPENT FUEL POOL STORAGE CAPACITY AT NINE MILE POINT
NUCLEAR STATION, UNIT 1 (TAC NO. MA1945)

Dear Mr. Mueller:

By letter dated May 15, 1998, you submitted an application for license amendment to change Technical Specification 5.5, "Storage of Unirradiated and Spent Fuel." The changes would reflect proposed modifications to increase the storage capacity of the spent fuel pool at Nine Mile Point Nuclear Station, Unit No. 1. The NRC staff is reviewing this application and finds that additional information, identified in the enclosure, is needed. The requests in the enclosure supplement our requests by letters dated August 11 and 24, 1998, to which you responded September 25 and October 13, 1998, respectively.

As shown in Enclosure 2, a draft version of Enclosure 1 was faxed to Mr. S. Leonard of your organization on October 16, 1998, and an accompanying e-mail requested that the response date be identified. Based on Mr. Leonard's reply that a response can be provided within 45 days of receipt of NRC's letter, it has been determined that a mutually acceptable response date is December 11, 1998. If you have any questions regarding this request or find that you are unable to meet this response schedule, please contact me by phone on (301) 415-3049 or by electronic mail at dsh@nrc.gov.

Sincerely,

ORIGINAL SIGNED BY:

Darl S. Hood, Senior Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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Docket No. 50-220

- Enclosures: 1. Supplemental Request for Additional Information
2. Correspondence regarding response date

cc w/encls: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

October 27, 1998

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Sincerely,

A handwritten signature in cursive script that reads "Darl S. Hood".

Darl S. Hood, Senior Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-220

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John H. Mueller
Niagara Mohawk Power Corporation

Nine Mile Point Nuclear Station
Unit No. 1

cc:

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 126
Lycoming, NY 13093

Charles Donaldson, Esquire
Assistant Attorney General
New York Department of Law
120 Broadway
New York, NY 10271

Mr. Paul D. Eddy
State of New York
Department of Public Service
Power Division, System Operations
3 Empire State Plaza
Albany, NY 12223

Mr. F. William Valentino, President
New York State Energy, Research,
and Development Authority
Corporate Plaza West
286 Washington Avenue Extension
Albany, NY 12203-6399

Mark J. Wetterhahn, Esquire
Winston & Strawn
1400 L Street, NW
Washington, DC 20005-3502

Gary D. Wilson, Esquire
Niagara Mohawk Power Corporation
300 Erie Boulevard West
Syracuse, NY 13202

Supervisor
Town of Scriba
Route 8, Box 382
Oswego, NY 13126

SUPPLEMENTAL REQUEST FOR ADDITIONAL INFORMATION
REGARDING SPENT FUEL POOL MODIFICATIONS
NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT NUCLEAR STATION, UNIT NO. 1
DOCKET NO. 50-220

In addition to the information requested by the NRC staff by letters dated August 11 and 24, 1998 (to which you responded September 25 and October 13, 1998, respectively), provide the following additional information regarding the application for license amendment by letter dated May 15, 1998:

IV. RADIATION PROTECTION

11. In Section 9.3 of Attachment C to your application dated May 15, 1998, you state that radiation levels in zones surrounding the pool are not expected to be significantly affected by the proposed spent fuel pool (SFP) reracking. Please confirm that, and explain why, the increased number of fuel assemblies stored in the SFP and the closer vicinity of the replacement spent fuel racks to the SFP walls does not significantly affect dose rates in accessible areas adjacent to the SFP that may be below the refueling pool deck level or below the SFP itself. Describe any administrative controls used to preclude storing freshly offloaded fuel assemblies in cell locations adjacent to SFP walls.
12. What precautions (such as use of TV monitoring, tethers, etc.) will be used to ensure that divers will maintain a safe distance from spent fuel assemblies or any other high radiation sources in the SFP? How will you monitor the doses received by divers during the reracking operation (e.g., use of dosimetry, alarming dosimeters, remote readout radiation detectors)? Discuss any other procedures that you will use to ensure that doses to divers are minimized.
13. Your application for amendment dated May 15, 1998, does not include an analysis of the potential radiological consequences of a fuel handling accident (FHA) in the reactor building, although such an analysis was provided in support of your application dated May 2, 1998, regarding changes to the initiation circuitry for the Control Room Air Treatment System. Please confirm that all the assumptions used in this previous FHA analysis in the reactor building remain applicable with respect to your May 15, 1998, application for amendment, or identify the revised assumptions. Similarly, confirm that the resulting postulated thyroid and whole body doses at the Exclusion Area Boundary, Low Population Zone, and within the control room as a result of an FHA remain valid, or provide revised doses.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

FACSIMILE TRANSMISSION

DATE: 10-16-98

TO: Steve Leonard

FAX NO: 315-349-~~4014~~400

TEL NO: 315-349-4039

FROM: Darl Wood

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF NUCLEAR REACTOR REGULATION

FAX NO.: (301) 415-2102

TEL NO: 301-415-3049

PAGE 1 OF PAGES 3

REMARKS:

Draft supp. RFAI on NMPI SFP Resocking
- Radiation Protection

DRAFT

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The enclosure was discussed with Ms. D. Wolniak and other members of your organization during a telephone conversation on _____, 1998. During this conversation, it was determined that a mutually acceptable response date would be _____, 1998. If you have any questions regarding this request or find that you are unable to meet this response schedule, please contact me by phone on (301) 415-3049 or by electronic mail at dsh@nrc.gov.

Sincerely,

Darl S. Hood, Senior Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
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NIAGARA MOHAWK POWER CORPORATION
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DRAFT

Enclosure