

50-220



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001
March 3, 1997

Mr. B. Ralph Sylvia
Executive Vice President Generation
Business Group and Chief Nuclear Officer
Niagara Mohawk Power Corporation
Nuclear Learning Center
450 Lake Road
Oswego, NY 13126

SUBJECT: MODIFICATIONS TO CORRECT CORE SHROUD REPAIR DEVIATIONS,
NINE MILE POINT NUCLEAR STATION, UNIT NO. 1 (TAC NO. M90102)

Dear Mr. Sylvia:

During the 1995 refueling outage for Nine Mile Point Nuclear Station, Unit No. 1 (NMP-1), Niagara Mohawk Power Corporation installed four core shroud stabilizer assemblies consisting of tie rods, brackets, springs, and other parts. This repair measure was implemented to ensure the structural integrity of the core shroud with respect to the function of the circumferential welds that experienced cracks in some boiling water reactors (BWRs) as discussed in NRC Generic Letter 94-03, "Intergranular Stress Corrosion Cracking of Core Shrouds in Boiling Water Reactors," and other communications. The 1995 shroud repair was designed as an alternative to the requirements of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code pursuant to 10 CFR 50.55a(a)(3)(i), and was approved by the NRC staff by letter dated March 31, 1995.

As discussed in your letters dated March 23, 1995, and April 30, 1996, the post-installation inspection of the shroud repair revealed conditions that differed from the intended design. Therefore, in May 30 and August 14, 1996, letters, you described plans for two modifications to the stabilizer assemblies during the March 1997 outage. One modification will replace the tie rod and spring assembly with one having the spring on the opposite side of the tie rod because the lower spring currently bears, in part, on the blend radius of the recirculation nozzle. The other modification will add a U-shaped extension piece such that the lower spring contact for the 90°, 166°, and 350° stabilizer assemblies will extend beyond the H6A weld, as originally intended. The replacement assembly at 270° will also extend beyond the H6A weld.

As discussed in the enclosed safety evaluation (SE), the NRC staff has reviewed the proposed modifications and finds that they adequately restore the stabilizer assemblies to the intended function previously approved by the NRC staff, and the loads and displacements at critical locations will be within allowable values specified in the design specifications. The modifications are, therefore, acceptable.

1/1
DFO

NRC FILE CENTER COPY

0600
9703060307 970303
PDR ADOCK 05000220
P PDR



4
2
1

B. Ralph Sylvia

- 2 -

March 3, 1997

This completes the NRC staff's efforts under TAC No. M90102. If you have questions, contact me by phone at (301) 415-3049 or by electronic mail at dsh@nrc.gov.

Sincerely,

/s/

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

Enclosure: SE

Docket No. 50-220

cc w/encl: See next page

DISTRIBUTION:

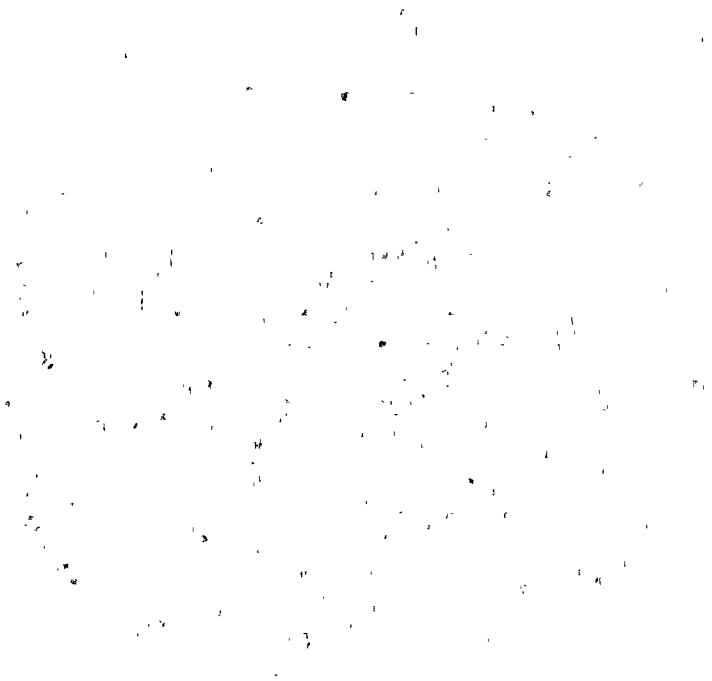
Docket File
PUBLIC
PDI-1 Reading
SVarga
JZwolinski
SBajwa
SLittle
DHood
THarris (E-Mail TLH3)
OGC
ACRS
CCowgill, RI
JRajan
KManoly
RWessman

DOCUMENT NAME: NM190102.LTR

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

| | | | | | | | |
|--------|----------|---|----------|---------|---------|---------|--|
| OFFICE | PH:PDI-1 | E | LA:PDI-1 | D:PDI-1 | | | |
| NAME | DHood:mw | | SLittle | SBajwa | | | |
| DATE | 03/3/97 | | 03/2/97 | 03/3/97 | 03/ /97 | 03/ /97 | |

Official Record Copy



B. Ralph Sylvia

- 2 -

This completes the NRC staff's efforts under TAC No. M90102. If you have questions, contact me by phone at (301) 415-3049 or by electronic mail at dsh@nrc.gov.

Sincerely,



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

Enclosure: SE

Docket No. 50-220

cc w/encl: See next page



B. Ralph Sylvia
Niagara Mohawk Power Corporation

Nine Mile Point Nuclear Station
Unit No. 1

cc:

Mr. Richard B. Abbott
Vice President and General Manager -
Nuclear
Niagara Mohawk Power Corporation
Nine Mile Point Nuclear Station
P.O. Box 63
Lycoming, NY 13093

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

Mr. Martin J. McCormick, Jr.
Vice President
Nuclear Safety Assessment
and Support
Niagara Mohawk Power Corporation
Nine Mile Point Nuclear Station
P.O. Box 63
Lycoming, NY 13093

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

Ms. Denise J. Wolniak
Manager Licensing
Niagara Mohawk Power Corporation
Nine Mile Point Nuclear Station
P.O. Box 63
Lycoming, NY 13093

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

Mr. Kim A. Dahlberg
General Manager - Projects
Niagara Mohawk Power Corporation
Nine Mile Point Nuclear Station
P.O. Box 63
Lycoming, NY 13093

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

Mr. Norman L. Rademacher
Plant Manager, Unit 1
Nine Mile Point Nuclear Station
P.O. Box 63
Lycoming, NY 13093

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

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

Warren Bilanin, EPRI Task Manager
3412 Hillview Ave.
Palo Alto, CA 94303

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

Robin Dyle, Technical Chairman
BWRVIP Assessment Task
Southern Nuclear Operating Company
Post Office Box 236
40 Inverness Center Parkway
Birmingham, AL 35201

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

