

UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555

November 13, 1992

Docket No. 50-220

Mr. B. Ralph Sylvia Executive Vice President, Nuclear Niagara Mohawk Power Corporation 301 Plainfield Road Syracuse, New York 13212

Dear Mr. Sylvia:

SUBJECT: REVISION TO NRC STAFF RECOMMENDATIONS FOR PERFORMING ELASTIC-PLASTIC

FRACTURE MECHANICS ANALYSIS FOR NINE MILE POINT NUCLEAR STATION UNIT

NO. 1 REACTOR VESSEL (TAC NO. M83486)

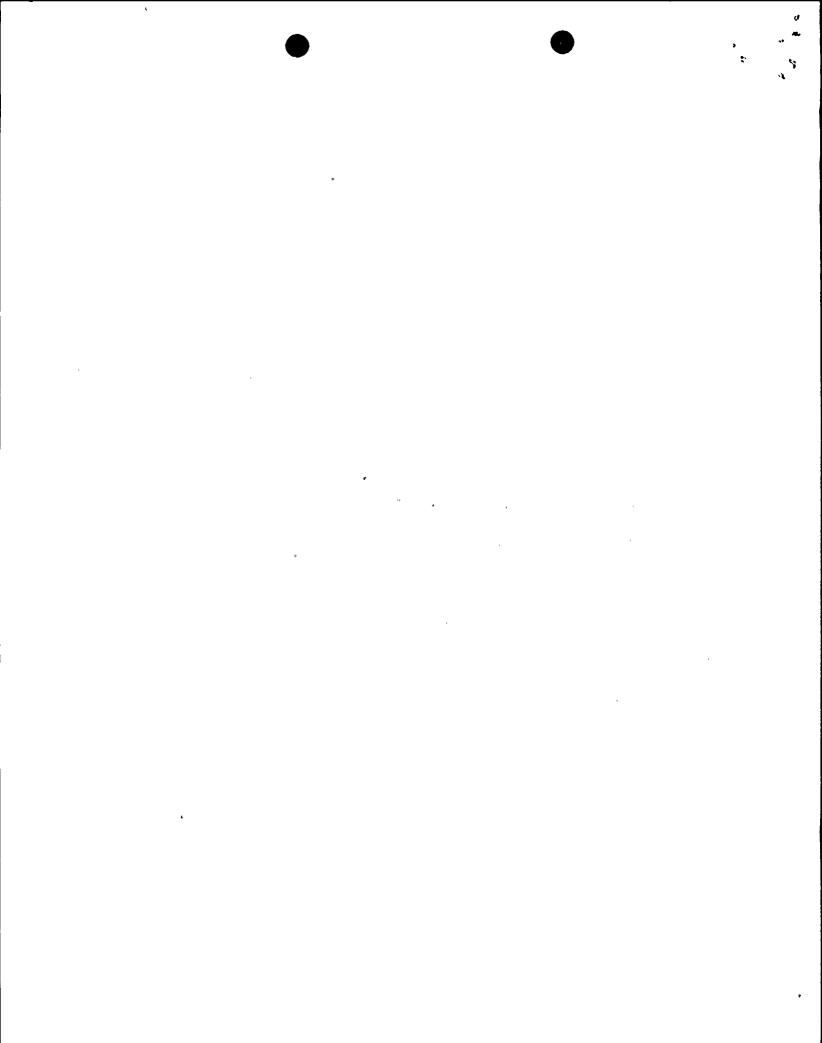
By letter dated August 12, 1992, the NRC staff provided a preliminary response to Niagara Mohawk Power Corporation's (NMPC) response to NRC Generic Letter 92-01, Revision 1, "Reactor Vessel Structural Integrity, 10 CFR 50.54(f)," for Nine Mile Point Unit No. 1 (NMP-1). In the second paragraph of our August 12, 1992, letter, we recommended that NMPC perform an elastic-plastic fracture mechanics analysis to demonstrate that plates in the NMP-1 reactor vessel with Charpy upper shelf energies of less than 50 ft lb have margins of safety against fracture equivalent to those required by Appendix G of the ASME Code. We further recommended that a lower 95 percent confidence value for $J_{\rm d}$ be used to represent conservative material properties for Levels A, B, and C Service Loadings and a mean value for $J_{\rm d}$ be used to represent the best estimate properties for Level D Service Loadings. Upon further evaluation we have determined that we should have recommended that in determining the conservative material properties for Levels A, B, and C Service Loadings, the mean value for $J_{\rm d}$ should be reduced by two standard deviations.

We apologize for any inconvenience caused by our change in recommended calculational method. Preliminary discussions with Mr. Nick Spagnoletti of your staff indicate this change in calculational methodology will delay

NEC FILE CENTER GOPY

7211190012 921113 PDR ADOCK 05000220 PDR PDR

Mr. B. Ralph Sylvia November 13, 1992 submittal of the recommended analysis by approximately 30 days. Although we urge NMPC to complete this analysis as soon as possible, we agree that a delay of up to 30 days may be unavoidable and is acceptable. Please contact me at (301) 504-1409 if you have any questions regarding this issue. Sincerely, Donald S. Brinkman, Senior Project Manager Project Directorate I-1 Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation cc: See next page



Mr. B. Ralph Sylvia Niagara Mohawk Power Corporation

cc:

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

Supervisor Town of Scriba Route 8, Box 382 Oswego, New York 13126

Resident Inspector U.S. Nuclear Regulatory Commission Post Office Box 126 Lycoming, New York 13093

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

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

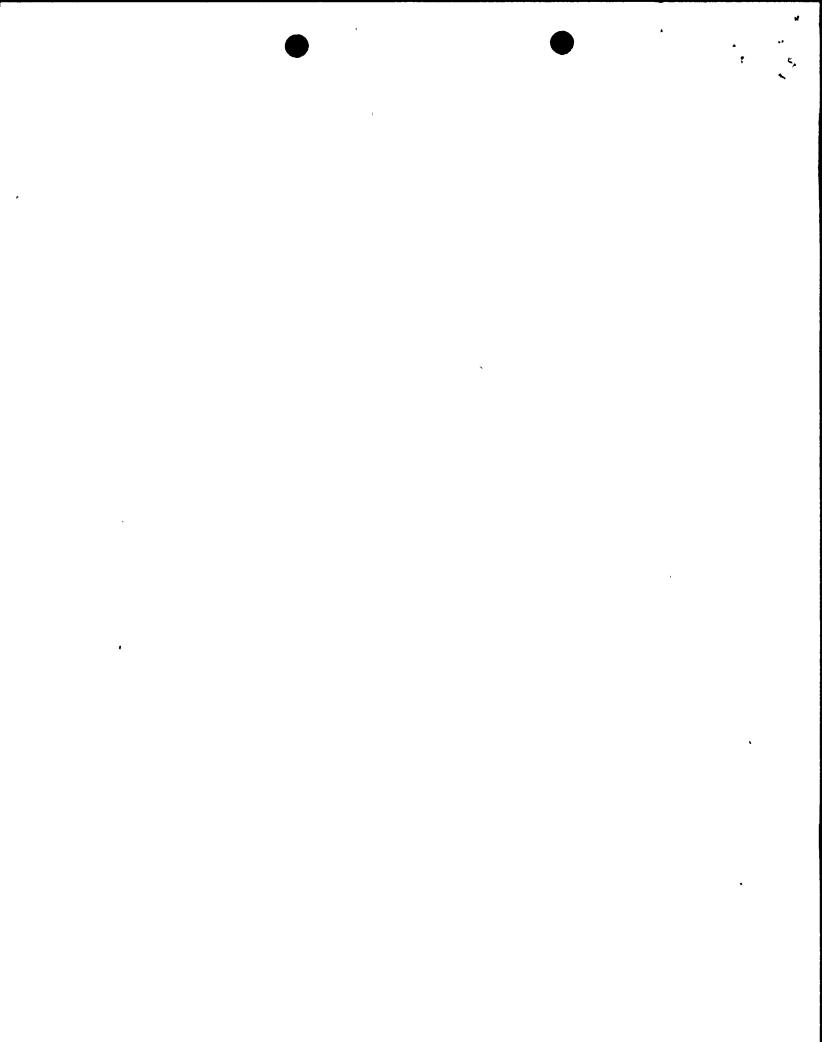
Ms. Donna Ross New York State Energy Office 2 Empire State Plaza 16th Floor Albany, New York 12223 Nine Mile Point Nuclear Station Unit No. 1

Mr. Kim Dahlberg Unit 1 Station Superintendent Nine Mile Point Nuclear Station Post Office Box 32 Lycoming, New York 13093

Mr. David K. Greene Manager Licensing Niagara Mohawk Power Corporation 301 Plainfield Road Syracuse, New York 13212

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

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



submittal of the recommended analysis by approximately 30 days. Although we urge NMPC to complete this analysis as soon as possible, we agree that a delay of up to 30 days may be unavoidable and is acceptable.

Please contact me at (301) 504-1409 if you have any questions regarding this issue.

Sincerely,

Original signed by:

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

cc: See next page

Distribution:
Docket File

NRC & Local PDRs

PDI-1 Reading

SVarga

JCa1vo

RACapra

DBrinkman

CVogan

OGC

JStrosnider, 7/D/3

ACRS (10)

PDI-1 Plant File

CCowqi11

PDI-1:LA	PDI-1:PM A	ЕМСВ	PDI-1:D		
CVogan &	DBrinkman:smm	JStyosnider	RACapra		
11/10/92	11/10/92	11/12/92	<i>II I3</i> 92	/ /	/ /

11

OFFICIAL RECORD COPY

FILENAME: G:\NMP1\NM183486.LTR

