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 MANGAN, C.V.    Niagara Mohawk Power Corp.  
 RECIP. NAME    RECIPIENT AFFILIATION  
 VASSALLO, D.B.    Operating Reactors Branch 2

SUBJECT: Forwards "Nine Mile Point Unit 1 Leak-Before-Break Analysis of High Energy Piping Sys," in response to IE Bulletin 80-11. Addl info requested re mods to masonry walls will be provided by 840622.

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June 8, 1984

Director of Nuclear Reactor Regulation  
Attention: Mr. Domenic B. Vassallo, Chief  
Operating Reactors Branch No. 2  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Re: Nine Mile Point Unit 1  
Docket No. 50-220  
DPR-63

Dear Mr. Vassallo:

Our letter of June 24, 1983 provided a document entitled "Design Criteria for Re-Analysis of Safety Related Masonry Walls, Nine Mile Point Unit 1". This document was provided in response to your staff's questions regarding our 1980 analysis of safety related masonry walls. That document summarized the planned methodology for reanalyzing masonry walls reinforced with Durowal and the method of resolving pressurization loads due to high energy line breaks. The results of our analysis are presented below.

Durowal

In response to Nuclear Regulatory Commission Inspection and Enforcement Bulletin 80-11, Safety Related Masonry Walls at Nine Mile Point Unit 1 were analyzed to ensure their structural integrity. In this original analysis, Durowal was utilized as a structural resisting element. Subsequent to that analysis, your staff established a technical position on the use of Durowal as horizontal reinforcement which differed from the methodology used in the original analysis. As a result, Niagara Mohawk reanalyzed the safety related masonry walls where necessary neglecting the presence of Durowal. This resulted in the need to modify three masonry walls. These modifications were completed during the 1984 refueling and maintenance outage at Nine Mile Point Unit 1. Additional information requested by members of your staff regarding those modifications will be provided by June 22, 1984.

Accol  
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MEMORANDUM FOR THE DIRECTOR, FBI  
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June 8, 1984  
Page 2

High Energy Line Break - Pressurization Loads

The 1980 analysis of safety related masonry walls at Nine Mile Point Unit 1 concentrated on the effects of seismic loads and did not include the effects of pressurization loads due to high energy line breaks. To incorporate these effects, Niagara Mohawk initiated a study to determine if a leak before break concept could be applicable for high energy lines at Nine Mile Point Unit 1. The results of this analysis indicate that the probability of a instantaneous unstable pipe failure is extremely small, therefore, making it unnecessary to consider the effects of high energy line breaks in the analysis of masonry walls. A preliminary report of the leak before break analysis is attached. A final report will be submitted by August 6, 1984.

Sincerely,

NIAGARA MOHAWK POWER CORPORATION

*C. V. Mangan*

C. V. Mangan  
Vice President

Nuclear Engineering and Licensing

RJP:bd  
Attachment

