

50-220

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TO:

Mr. George Lear

FROM:

Niagara Mohawk Power Corp.
Syracuse, New York
R. R. Schneider

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12/1/76

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ENCLOSURE

Ltr. w/attached....re their 11/3/76 ltr....
concerning "Plant Unique Analysis Report
for Torus Support System and Attached Piping
for Nine Mile Point Nuclear Station.

(2-P)

PLANT NAME:

Nine Mile Point Unit No. 1

ACKNOWLEDGED

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SAFETY

FOR ACTION/INFORMATION

ENVIRO

12/9/76

RJL

ASSIGNED AD:

☒ BRANCH CHIEF:

Lear

ASSIGNED AD:

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☒ LIC. ASST. :

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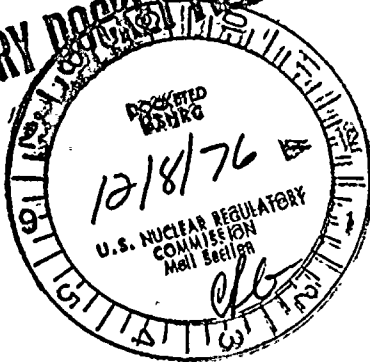
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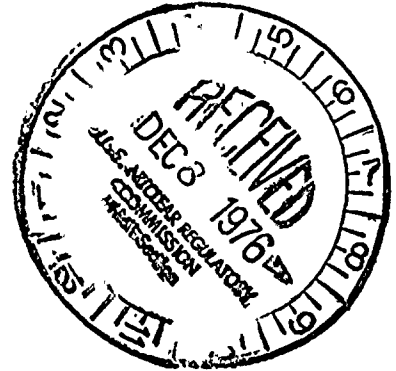
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December 1, 1976

Director of Nuclear Reactor Regulation
Attn: Mr. George Lear, Chief
Operating Reactors Branch #3
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555



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

Dear Mr. Lear:

My letter of November 3, 1976 transmitted additional information regarding the "Plant Unique Analysis Report for Torus Support System and Attached Piping for Nine Mile Point Nuclear Station." The heading for Question 3, Table C, should be corrected to read as follows: "... $\Delta P = 1.5$ psi..." . Attached is a revised Table C.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION


R. R. SCHNEIDER

Vice President-Electric Production

MGM/sz

Attachment

12402



TABLE C

SUMMARY OF ANALYSIS RESULTS
 BASE CASE LOAD ($\Delta P = 1.5$ psi)
 MAXIMUM DOWN LOADS
 For 4'-6" Submergence

Component Evaluation	ASME Code	STP Criteria	Load/Stress		Strength Ratio	
			Calculated	Capacity	Act.	Allow.
Ring Girder Stress, psi Membrane + Bending Shear		X X	34,800 9,170	81,600 40,800	.43 .23	.50 .50
Torus Shell Stress, psi Membrane + Bending Shear		X X	21,700 15,600	64,000 40,800	.33 .38	.50 .50
Column-Torus Weld Joint						
Inner Column						
Web Weld (kips)	X		508.2	678.0	.75	1.0
Flange Weld (in.-kips)	{X X		126.7 65.5	2,213.0 700.0	.05 .10	1.0 1.0
Outer Column						
Web Weld (kips)	X		595.1	678.0	.87	1.0
Flange Weld (in.-kips)	{X X		201.2 158.7	2,213.0 700.0	.09 .23	1.0 1.0
Column Buckling						
Inner Column						
Equation 19		X	N/A	N/A	.40	0.5
Equation 20		N/A	N/A	N/A	N/A	N/A
Outer Column						
Equation 19		X	N/A	N/A	.38	0.5
Equation 20		N/A	N/A	N/A	N/A	N/A
Column Base Joint						
Inner Column						
Down Load (kips)		X	508.2	1602.0	.31	.50
Up Load (kips)		X	124.7*	461.45	.27	.50
Outer Column						
Down Load (kips)		X	595.1	1602.0	.37	.50
Up Load (kips)		X	111.3*	461.45	.24	.50

*Conservatively computed by multiplying values in original Plant Unique Analysis Table 9 by $\frac{M_{up, new}}{M_{up, old}}$

