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FILE NUMBER

TO:  
Mr. George Lear

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

DATE OF DOCUMENT  
12/1/76

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DESCRIPTION

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

ENCLOSURE

**ACKNOWLEDGED**

**DO NOT REMOVE**

SAFETY		FOR ACTION/INFORMATION		ENVIRO	12/9/76	RJL
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<input checked="" type="checkbox"/> GOSSICK & STAFF	ENGINEERING	IPPOLITO	ENVIRO TECH.
MIPC	MACARRY	KIRKWOOD	ERNST
CASE	KNIGHT		BALLARD
HANAUER	SIHWEL	OPERATING REACTORS	SPANGLER
HARLESS	PAWLICKI	STELLO	
			SITE TECH.
PROJECT MANAGEMENT	REACTOR SAFETY	OPERATING TECH.	GAMMILL
BOYD	ROSS	<input checked="" type="checkbox"/> EISENHUT (Jan)	STAPP
P. COLLINS	NOVAK	<input checked="" type="checkbox"/> SHAO	HULMAN
HOUSTON	ROSZTOCZY	<input checked="" type="checkbox"/> BAER	
PETERSON	CHECK	<input checked="" type="checkbox"/> BUTLER	SITE ANALYSIS
MELTZ		<input checked="" type="checkbox"/> GRIMES	VOLLMER
HELTEMES	AT & I		BUNCH
SKOVHOLT	SALTZMAN		<input checked="" type="checkbox"/> J. COLLINS
	RUTBERG		KREGER

EXTERNAL DISTRIBUTION			CONTROL NUMBER
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<input checked="" type="checkbox"/> ACRS 16 CYS -HOLDING/SENT	; Cat. B. (12/9/76)		

ACKNOWLEDGED

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NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

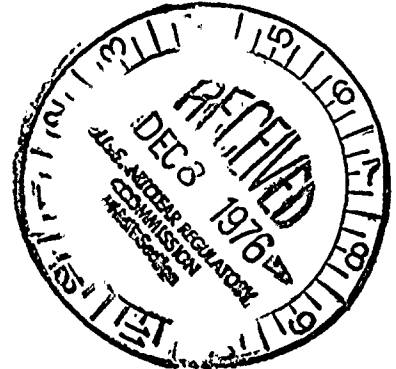
300 ERIE BOULEVARD WEST  
SYRACUSE, N.Y. 13202

REGULATORY DOCKET FILE COPY



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		X	34,800	81,600	.43	.50
Shear		X	9,170	40,800	.23	.50
Torus Shell Stress, psi						
Membrane + Bending		X	21,700	64,000	.33	.50
Shear		X	15,600	40,800	.38	.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  $\frac{M_{up, new}}{M_{up, old}}$

