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MANGAN, C. V. Niagara Mohawk Power Corp.
RECIP. NAME RECIPIENT AFFILIATION
ADENSAM, E. G. BWR Project Directorate 3

SUBJECT: Forwards tables describing S&W & GE pipe class definitions, in response to request for pipe class identification key to simplify identification of pressure boundaries indicated on drawings submitted in inservice testing plan.

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NIAGARA MOHAWK

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

February 28, 1986
(NMP2L 0632)

Ms. Elinor G. Adensam, Director
BWR Project Directorate No. 3
U.S. Nuclear Regulatory Commission
7920 Norfolk Avenue
Washington, DC 20555

Dear Ms. Adensam:

Re: Nine Mile Point Unit 2
Docket No. 50-410

The Inservice Testing Plan for Pumps and Valves for Nine Mile Point Unit 2 was submitted on November 27, 1985. A staff reviewer subsequently requested that a pipe class identification key be provided to simplify the task of identifying pressure boundaries indicated on piping drawings. Two tables of pipe class definitions are enclosed. One covers Stone & Webster Engineering Corporation drawings, the second, those from General Electric Company. These tables supply the requested information.

Very truly yours,

C. V. Mangan
Senior Vice President

RAC/tlw
1355G

xc: R. A. Gramm, NRC Resident Inspector
Project File (2)

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PDR ADOCK 05000410
P PDR

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of	)	
Niagara Mohawk Power Corporation	)	Docket No. 50-410
(Nine Mile Point Unit 2)	)	

AFFIDAVIT

C. V. Mangan, being duly sworn, states that he is Senior Vice President of Niagara Mohawk Power Corporation; that he is authorized on the part of said Corporation to sign and file with the Nuclear Regulatory Commission the documents attached hereto; and that all such documents are true and correct to the best of his knowledge, information and belief.

C V Mangan

Subscribed and sworn to before me, a Notary Public in and for the State of New York and County of Onondaga, this 28 day of February, 1986.

Janis M. Macro
Notary Public in and for
Onondaga County, New York

My Commission expires:

JANIS M. MACRO
Notary Public in the State of New York
Qualified in Onondaga County No. 4784555
My Commission Expires March 30, 1987

PIPE CLASS DEFINITIONS

FOR GENERAL ELECTRIC DRAWINGS±

Standard Line Designation (Class)	Service	Temperature Range (F°)	Primary ANSI Rating	Material
AA	Cond. Water/Reactor Water	-20 to 500°F	150 lb.	Carbon Steel
AB	Cond. Water/Reactor Water	-20 to 500°F	150 lb.	Stainless Steel
AC	Steam	to 500°F	150 lb.	Carbon Steel
AD	Service Water	-20 to 500°F	150 lb.	Carbon Steel
AE	Radwaste (Non-corrosive)	-20 to 500°F	150 lb.	Carbon Steel
AF	Radwaste (Corrosive)	-20 to 500°F	150 lb.	Stainless Steel
*AG	Demineralized Water		150 lb.	Aluminum
AH	Steam Condensate	to 500°F	150 lb.	Carbon Steel
AI	Fuel Oil	-20 to 500°F	150 lb.	Carbon Steel
BA	Cond. Water/Reactor Water	-20 to 500°F	300 lb.	Carbon Steel
BB	Cond. Water/Reactor Water	-20 to 500°F	300 lb.	Stainless Steel
BC	Steam	to 500°F	300 lb.	Carbon Steel
BD	Service Water	-20 to 500°F	300 lb.	Carbon Steel
BE	Steam Condensate	to 500°F	300 lb.	Carbon Steel
BF	Off-Gas	-50 to 250°F	300 lb.	Carbon Steel
DA	Cond. Water/Reactor Water	-20 to 650°F	600 lb.	Carbon Steel
DB	Cond. Water/Reactor Water	-20 to 650°F	600 lb.	Stainless Steel
DC	Steam	to 650°	600 lb.	Carbon Steel
DD	Off-Gas	-20 to 500°F	600 lb.	Carbon Steel
DE	Off-Gas	-50 to 250°F	600 lb.	Carbon Steel
DF	Off-Gas	-20 to 500°F	600 lb.	Stainless Steel
EA	Cond. Water/Reactor Water	-20 to 650°F	900 lb.	Carbon Steel
EB	Cond. Water/Reactor Water	-20 to 650°F	900 lb.	Stainless Steel
EC	Steam	to 650°F	900 lb.	Carbon Steel
ED	Boiler Feed Water	to 650°F	900 lb.	Carbon Steel
FA	Off-Gas	-20 to 500°F	1500 lb.	Low Alloy Steel
FB	Off-Gas	-20 to 900°F	1500 lb.	Low Alloy Steel
FC	Cond. Water/Reactor Water	to 150°F	1500 lb.	Carbon Steel
FD	Cond. Water/Reactor Water	to 150°F	1500 lb.	Stainless Steel
GA	Off-Gas	-20 to 900°F	2500 lb.	Low Alloy Steel

*Under special requirements and/or part of a module.

±Source: General Electric Nuclear Engineering Division Document No. 22A3095, Rev. No. 3, Sheet No. 80.

PIPE CLASS DEFINITIONS*

FOR STONE & WEBSTER DRAWINGS

Class	Title
2	175 lb Cast Iron for Buried Fire Protection Lines
2A	Ductile Iron for Buried Fire Protection Lines
21B	125 lb Red Brass Piping
21C	150 lb Copper Tube
21P	Copper Tubing for Plumbing
42	50 lb Buried Cast Iron Lines 3 in. and Larger
42A	100 lb Buried Cast Iron Lines 3 in. and Larger
42B	150 lb Buried Cast Iron Lines 3 in. and Larger
43A	Extra Strength Vitrified Clay Pipe
44	Reinforced Concrete Culvert, Storm Drain and Sewer Pipe
45A	Cast Iron Soil Pipe - Compression Joint
46	Copper Tubing for Soil, Waste, and Vent Lines
47	Galvanized Carbon Steel for Fire Protection Service
47A	Galvanized Carbon Steel Grooved End
47B	Galvanized Carbon Steel for Drainage Lines
47C	Galvanized Carbon Steel for 300 lb Systems
49A	Extra Strength Clay Drainage Pipe Perforated
51	High Silicon Cast Iron
52	Corrugated Metal Sewer Pipe
121	125 lb Carbon Steel Piping
121A	125 lb Carbon Steel Lines for Fire Protection Service (Nuclear)
123	125 lb Nickel-Copper Alloy steel Lines to 350°F
123A	Carbon Steel Drain Lines
132	Saran Lined Steel
132K	Kynar Lined Steel
133	Polypropylene Lined Steel
135	PVC Pipe
135A	Polyethylene Piping
136	Fiberglass Reinforced Plastic Piping (FRP)
138	Carpenter 20 Piping
142	Saran Lined Steel Pipe 300 lb
151	150 lb Carbon Steel Piping
151A	150 lb Carbon Steel Piping (151 modified)
151C	150 lb 2 1/4 Chrome 1 Moly Steel Piping
151M	150 lb 1 1/4 Chrome 1/2 Moly Piping
152	150 lb Type 304 Stainless Steel Light Wall Piping
153	150 lb Type 304 Stainless Steel Standard Wall Piping
153L	150 lb Type 304L Stainless Steel Standard wall Piping

* Source: Section 3, pages 3-1, 3-2, 3-3 of Spec. P301A, "Piping Engineering and Design - ASME III, Code Class 1, 2, and 3 and ANSI B31.1"

Class	Title
153M	150 lb 1 1/4 Chrome - 1/2 Moly Piping
154	150 lb Type 304 Stainless Steel Standard Wall - Crevice Free
156	Incoloy Alloy 825 Piping - Crevice Free
157	150 lb Type 316 Stainless Steel Light Wall Piping
158	90/10 Copper Nickel Piping
162	150 lb Type 316 Stainless Steel Light Wall Piping
163	150 lb Type 316 Stainless Steel Standard Wall Piping
163L	150 lb Type 316L Stainless Steel Standard Wall Piping
301	300 lb Carbon Steel Piping
301C	300 lb 2 1/4 Chrome 1 Moly Steel Piping
301M	300 lb 1 1/4 Chrome 1/2 Moly Piping
302	300 lb Type 304 Stainless Steel Piping
303M	300 lb 1 1/4 Chrome 1/2 Moly Steel Piping
306	300 lb Type 316 Stainless Steel Piping
311	300 lb Carbon Steel Piping
601	600 lb Carbon Steel Piping
601C	600 lb 2 1/4 Chrome 1 Moly Steel Piping
602	600 lb Type 304 Stainless Steel Piping
606L	600 lb Type 316L Stainless Steel Piping
611	600 lb Carbon Steel Piping
901	900 lb Carbon Steel Piping
901C	900 lb 2 1/4 Chrome 1 Moly Steel Piping
902	900 lb Type 304 Stainless Steel Piping
911	900 lb Carbon Steel Piping
912	900 lb Type 304 Stainless Steel Piping
921	900 lb Carbon Steel Piping
1501	1,500 lb Carbon Steel Piping
1502	1,500 lb Type 304 Stainless Steel Piping
1505	1,500 lb 2 1/4 Chrome 1 Moly Steel Piping
1511	1,500 lb Carbon Steel Piping
1512	1,500 lb Type 304 Stainless Steel Piping
1516	1,500 lb Type 316L Stainless Steel Piping
1522	1,500 lb Type 316 Stainless Steel Piping
2512	2,500 lb Type 316 Stainless Steel Piping