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SUBJECT: Forwards info re temp qualification of safety-related equipment in control room, per J Singh request. Info will be included in Amend 16 to FSAR.

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	IE FILE	09	1	1	NRR KARSCH, R		1	1
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MANGAN,G.V Niagara Mohawk Power Corp.
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SCHWENCER,A. Licensing Branch 2

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DISTRIBUTION CODE: A046D COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 5
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INTERNAL:	ACRS 15	8	8	ADM/LFMB	1	0
	ELD/HDS3 12	1	1	GC 13	1	1
	IC FILE 09	1	1	NRR KARSCH,R	1	1
	NRR/DE/EGB 07	2	2	NRR/DL DIR 14	1	1
	NRR/DL/ORAB 06	1	1	NRR/DSI/AEB	1	1
	REG FILE 04	1	1	RGN1	1	1
EXTERNAL:	LPDR 03	1	1	NRC PDR 02	1	1
	NSIC 05	1	1	NTIS 31	1	1
NOTES:		1	1			

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NIAGARA MOHAWK

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

November 13, 1984
(NMP2L 0238)

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Schwencer:

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

Attached is the information requested by Mr. J. Singh on the temperature qualification of safety related equipment in the control room.

This information will be included in Final Safety Analysis Report Amendment 16.

Very truly yours,

C. V. Mangan
Vice President
Nuclear Engineering & Licensing

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

A048
1/1

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 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 13 day of November, 1984.

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, 1985

TABLE 9.4-1

ENVIRONMENTAL AND SYSTEM DESIGN PARAMETERS FOR HVAC SYSTEMS

Normal Operation - Indoor Conditions

Building/Area	Temperature (°F) Design Min.	Design Max.	Relative Humidity Range (%)	Pressure (in W.G.)
Control building				
El 306'				
Control room (1)	75	75	20-50	+0.125
Remaining areas	65	80	20-50	+0.125
El 288'-6"				
Relay room	75	75	20-50	+0.125
Computer room	75	75	20-50	+0.125
Remaining areas	65	80	20-50	+0.125
El 261'				
Remote shutdown room	75	75	20-50	+0.125
Remaining areas	65	104	20-90	Atmospheric
El 244' and 237'				
Record storage vault	75	75	20-50	Atmospheric
Remaining areas	50	104	20-90	Atmospheric
El 214'				
All areas	50	104	20-90	Atmospheric
Normal switchgear building	65	104	20-90	Atmospheric
Electrical tunnels	50	104	20-90	Atmospheric
Turbine building				
Overhead operating floor	50	120	20-90	Subatmospheric
Above operating floor	65	104	20-50	Subatmospheric
Below operating floor				
Equipment area				
Electrical	65	104	20-90	Subatmospheric
Nonelectrical	65	110	20-50	Subatmospheric
Charcoal decay room	65	85	20-50	Subatmospheric
Sample room	65	85	20-50	Subatmospheric
Steam tunnel	65	120	20-50	Subatmospheric
Radwaste building				
Control room	75	75	20-50	Atmospheric
Equipment area				
Electrical	65	104	20-90	Atmospheric
Nonelectrical	65	110	20-90	Subatmospheric

TABLE 9.4-1 (Cont)

Building/Area	Temperature (°F) Design Min.	Design Max.	Relative Humidity Range (%)	Pressure (in W.G.)
Reactor building and auxiliary bays				
General areas	65	104	20-50	Subatmospheric
Pump, heat exchanger, and tank rooms	65	120*	20-50	Subatmospheric
Electrical equipment rooms	65	104	20-50	Subatmospheric
Pipe chases	65	120	20-50	Subatmospheric
Drywell				
General areas	65	150	20-100	+13.84 to 27.68
Upper dome area	65	150	20-100	+13.84 to 27.68
Area beneath RPV	65	150	20-100	+13.84 to 27.68
RPV support skirt area	65	150	20-100	+13.84 to 27.68
Screenwell building				
General areas	65	104	20-90	Atmospheric
Circulating water pump area	65	104	20-90	Atmospheric
Screen backwash pump area	65	104	20-90	Atmospheric
Service water pump bays	65	104	20-90	Atmospheric
Fire pump rooms	65	104	20-90	Atmospheric
Demineralized water storage tank building	65	104	20-90	Atmospheric
Condensate storage tank building	65	104	20-90	Atmospheric
Electrical bay	65	104	20-90	Atmospheric
Service building	65	104	20-90	Atmospheric
Access passageway	65	104	20-90	Atmospheric
Auxiliary boiler building	65	104	20-90	Atmospheric
Diesel generator building				
Control rooms	65	104	20-90	Atmospheric
Remaining areas	65	120*	20-90	Atmospheric
Auxiliary service building	65	104	20-50	Atmospheric

TABLE 9.4-1 (Cont)

Building/Area	Temperature (°F) Design Min.	Design Max.	Relative Humidity Range (%)	Pressure (in W.G.)
Standby gas treatment building				
HVAC equipment rooms	65	104	20-90	Atmospheric
SGTS filter rooms	65	104	20-50	Atmospheric
Screenhouse	65	104	20-90	Atmospheric
Main stack structure	65	104	20-90	Atmospheric
Chiller building	65	104	20-90	Atmospheric

(1) All safety related equipment located in the Control Room is qualified to an ambient temperature of 104°F.

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*When equipment is operating.

NOTES: a. Summer outdoor design conditions are 93°F dry-bulb and 73°F wet-bulb.

b. Winter outdoor design conditions are -10°F dry-bulb (for computing transmission loss) and -20°F dry bulb (for sizing outdoor makeup air heating coils).

c. The summer and winter outdoor design conditions for computing transmission loss, as referenced in Notes 1 and 2, respectively, are based on data for Oswego, New York, derived from the Carrier System Design Manual, Part 1 (Load Estimating), 9th Printing, 1972. The use of -20°F for sizing heating coils is additional conservatism applied over and above the Carrier literature.