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MANGAN,C.V. Niagara Mohawk Power Corp.
RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Licensing Branch 2

SUBJECT: Forwards revised test abstracts for svc & instrument air sys & reactor bldg polar crane.Info will be included in FSAR Amend 17.

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NIAGARA MOHAWK

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

December 13, 1984
(NMP2L 0292)

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 are the revised test abstracts for the Service and Instrument Air System and the Reactor Building - Polar Crane as requested by the Nuclear Regulatory Commission reviewer.

This information will be included in Final Safety Analysis Report Amendment 17.

Very truly yours,

C. V. Mangan
Vice President
Nuclear Engineering & Licensing

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

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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 13th day of December, 1984.

Christine Austin
Notary Public in and for
Onondaga County, New York

My Commission expires:
CHRISTINE AUSTIN
Notary Public in the State of New York
Qualified in Onondaga Co. No. 4787687
My Commission Expires March 30, 1985

CHRISTINE AUSTIN
Notary Public in the State of New York
Qualified in Ocondaga Co. No. 4767007
My Commission Expires March 30, 19__

TABLE 14.2-43

SERVICE AND INSTRUMENT AIR SYSTEM

System 19

Preoperational Test (N2-POT-19)

Test Objectives

1. To demonstrate the reliable operation of the service and instrument air systems and components.

2. To ensure the system is properly designed and constructed.

3. To evaluate the service and instrument air systems operating procedures.

Safety Precaution

Follow all NMPC safety rules and proper procedures during testing.

Prerequisites

1. All applicable preliminary tests are completed and approved.

2. All applicable motor control centers to supply electric power to motors, control circuits, and instrumentation are available.

3. All valve lineups are completed.

Test Procedure

1. The test procedure will verify that the instrument and service air system is capable of supplying the plant's compressed air requirements during normal operation.

2. The autostart feature of the compressors will be demonstrated.

3. The air compressor trip modes will be verified for various transients, simulated during testing.

4. Air compressor capacity and load time will be verified.

TABLE 14.2-43 (Cont)

5. The test will ensure that the effluent dryers and associated instrumentation operate according to design.

6. System control instrumentation, alarms, interlocks, and annunciators will be demonstrated for correct response.

7. A loss-of-air-supply test (Regulatory Guide 1.68.3) will be conducted on all portions of the instrument air system which interface with safety-related systems to verify that the air-controlled components supplied directly from the instrument air system will respond as designed. A listing of all air and nitrogen operated safety related valves is in Table 14.2-43A.

8. The test procedure will verify there are no crossties between the service air and instrument air systems which will degrade system operation.

9. The test will demonstrate that the ADS safety relief valves will remain functional after a loss of nitrogen supply.

Acceptance Criteria

1. The air compressors operate according to design specifications outlined in Equipment Specification No. NMP2-P261C.

2. The trip and autostart modes for the air compressors function as outlined in applicable SWEC logic diagrams.

3. System control instrumentation, alarms, annunciators, and interlocks will operate according to design as illustrated in applicable SWEC logic diagrams.

4. The system meets its design functions as described in Section 9.3.1.

5. The air and nitrogen operated safety related valves listed in Table 14.2-43A fail in their fail-safe positions on a loss of air/nitrogen.

6. The accumulators for the ADS relief valves maintain sufficient pressure after the loss of nitrogen supply to permit at least one relief cycle.

LOSS OF AIR TEST

TABLE 14.2-43A
(AIR OPERATED)

VALVE #	ESK/GE	GE#	FAILS	LOCATION	ESK
2SWPAOV20A,B	ESK-7SWP03	NA	F.O.	AB	9-10B,F
*AOV22A,B	-7SWP03			AB	9-10B,F
*AOV97A,B	-7SWP10			RB	9-10D,K
*AOV571	-7SWP16			ASB	9-10J
*AOV572	-7SWP05			ASB	9-10E
*AOV573	-7SWP05			CC	9-10M
*AOV574	-7SWP16			CC	9-10M
*AOV581	-7SWP18			CC	9-10M
*AOV154A,B	-7SWP05			CC	9-10M
*AOV78A,B	-7SWP20			CC	9-10AJ
2HVR*AOD1A,B	ESK-7HVR06	NA	F.C.	RB	22-1A
*AOD6A,B	-7HVR01,02		F.O.		22-1M
*AOD9A,B	-7HVR06		F.C.		22-1M
*AOD10A,B	-7HVR06		F.C.		22-1M
*AOD34A,B	-7HVR01		F.C.		22-1M
*AOD204	-7HVR08		F.C.		22-1M
2HVP*AOD4A,B,C,D	ESK-7HVP01,02	NA	F.O.	DG	22-7
2HVP*AOD5A,B	ESK-7HVP03	NA	F.O.	DG	22-7
2HVY*AOD34A,B	ESK-7HVY08	NA	F.O.	SW	22-8B
2HVC*AOD61A,B	ESK-7HVC01,02	NA	F.O.	CB,CC	22-9A,J
*AOD117	-7HVC08		F.C.	CB	22-9B
*AOD120	-7HVC08			CB	22-9B
*AOD6A,B	-7HVC01,02			CC,CB	22-9C
*AOD12A,B	-7HVC01,02			CB	22-9B
*AOD145	-7HVC08			CB	22-9B
*AOD142	-7HVC08			CB	22-9B
*AOD148	-7HVC08			CC	22-9C
*AOD54A,B	-7HVC03		F.O.	CB	22-9D
*AOD182	-7HVC19		F.C.	ASB	22-9E
*AOD183	-7HVC05		F.O.	ASB	22-9E

LOSS OF AIR TEST

TABLE 14.2-43A
(AIR OPERATED)

VALVE #	ESK/GE	GE#	FAILS	LOCATION	ESK
2HVC*AOD192	ESK-7HVC20	NA	F.C.	ASB	22-9E
*AOD193	-7HVC05		F.O.	ASB	22-9E
*AOD169	-7HVC19		F.O.	CB	22-9F
*AOD170	-7HVC05		F.O		
*AOD171	-7HVC19		F.C.		
*AOD177	-7HVC20		F.C.		
*AOD178	-7HVC05		F.O.		
*AOD179	-7HVC20		F.C.		
*AOD212	-7HVC19		F.O.		
*AOD213	-7HVC20		F.O.		
*AOD214	-NA		F.O.		
*AOD215	-7HVC20		F.O.		
2RCS*CTV102 (RECIRC)	ESK-7RCS (LATER)	B35-F020	F.C.	RB	25-1A
2CPS*AOV104	ESK-7CPS01	NA	F.C.	RB	22-23
*AOV105	-7CPS01				
*AOV110	-7CPS02				
*AOV111 (PURGE)	-7CPS02				
2ICS*AOV109	807E,73TY(16)	E51-F004	F.C.	RB	27-6C
*AOV110		E51-F005		RB	27-6C
*AOV130		E51-F025		RB	27-6D
*AOV131 (RCIC)		E51-F026		SC	27-6D
2CTS*AOV101 (STANDBY GAS TREATMENT)	ESK-(LATER)		F.C.		27-15A
2SFC*AOV19A,B	ESK-7SFC01,02	NA	F.C.	RB	34-2D
*AOV33A,B	-7SFC01,02				34-2A,B
*AOV153	-7SFC09				34-2C
*AOV154 (FUEL POOL COOL.)	-7SFC010				34-2C
2RDS*AOV123 (CONTROL ROD DRIVE)	807E159TY(2)	C12-F011	F.O.	RB	36-1F

LOSS OF AIR TEST

TABLE 14.2-43A
(NITROGEN OPERATED)

VALVE #	ESK/GE	GE#	FAILS	LOCATION	FSK
2CPS*AOV106	ESK-7CPS01	NA	F.C.		FSK-12-1M, 22-2B
*AOV107	-7CPS01				
*AOV108	-7CPS03				
*AOV109	-7CPS03				
2RCS*AOV45A	ESK-5RCS01,03	B35-F079A	F.O.		FSK-12-1M, 25-1B
*AOV45B	ESK-5RCS02,04	B35-F079B	F.O.		FSK-12-1M, 25-1B
2RCS*CTV101	ESK-7RCS-(LATER)	B35-F019	F.C.		FSK-12-1M, 25-1A

TABLE 14.2-110

REACTOR BUILDING - POLAR CRANE

System 84

Preoperational Test (N2-POT-84A)

Test Objectives

1. To demonstrate the reliable operation of the reactor building - polar crane and components.

2. To ensure the system is properly designed and constructed.

Safety Precaution

Follow all NMPC safety rules and proper procedures during testing.

Prerequisites

1. All applicable preliminary tests are completed and approved.

2. All applicable motor control centers to supply electric power to motors, control circuits, and instrumentation are available.

3. Manual main line supply breaker and manual disconnect switch operates satisfactorily.

Test Procedure

1. All pendant and radio controls are verified for proper operation.

2. The operation of all locking and safety devices is verified.

3. The restrictive path operation with both pendant and radio controls is verified.

4. Dynamic and static load tests, at 100 percent and 125 percent of rated load, will be performed to verify the crane's ability to function as designed.

5. Nondestructive and functional testing of the special lifting devices for Reactor Vessel Internals will be performed.

TABLE 14.2-110 (Cont)

Acceptance Criteria

1. All limit switches, interlocks, and locking and safety devices function as designed.

2. The polar crane responds correctly to all pendant and remote control functions.

3. The polar crane functions as described in Section 9.1.4.2.

4. The testing of the special lifting devices has been satisfactorily completed per ANSI N14.6 - 1978.