DRAWING NO 12177-PID-6A-12

FEEDWATER SYSTEM "2FWS-" VALVE TABLE

MARK NUMBER	VALVE DESCRIPTION	SIZE	NO. OF VALVES
V148A,B,C	VCS15Ø-L-4	3/4"	3
HV42A,B,C,43C	VDS15Ø-C-4Q	3/4"	4
HV43A,B	VDS15Ø-C-4Q	1"	2
MOV17A,B,C	VGW09X-F-4Y BDQ	28"	3
MOV22A,B,C	VGW09X-F-4YQ	28"	3
MOV7A,B,C	VAW09X-C-4Y DQ	24"	3
MOV102	VAW09X-C-4VQ	16"	1
V1A,B,C,2A,B,C, V5A,B,C,6A,B,C, V31A,B,C,68A,B,C, V61A,B,C,67A,B,C, V64A,B,C,71A,B,C, V72A,B,C,73A,B,C, V74A,B,C,81,82, V83,91A,B,C, V97A,B,C,98, V101,102,118A,B, V111A,B,138 V134A,B,135A,B, V136A,B,137A,B V161A,B,C,162A,B,C	VDS15Ø-F-4	4"	78
V34A,B,C	VCW09X-D-4Y	24"	3
V24A,B,C	BY PUMP VENDOR	1"	3
V25A,B,C,59A,B,C V160A,B,C	VDS15Ø-F-4	1"	9
V94	VDW09X-C-4W	4"	1
V103A,B	VGW09X-F-4W	6"	2
V129A,B	VCW09X-D-4W	6"	2
V153,154,155,156,157,158	BY GE	3/8"	6

FEEDWATER PUMP RECIRCULATION SYSTEM "2FWR-"

MARK NUMBER	VALVE DESCRIPTION	SIZE	NO. OF VALVES
V1A,B,C	VGW09X-F-4W	18"	3
V2A,B,C,3A,B,C	VDS15Ø-F-4	3/4"	6

EQUIP	DETAIL	COL 1	COL 2	COL 3	EQUIP	DETAIL	COL 1	COL 2	COL 3
P1A	A	37A	FWSTA07	851559	P1C	A	48C	FWSTA18	851559
P1A	A	38A	FWSTA18	851559	P1C	A	49C	FWSTA21	851559
P1A	A	45A	FWSTA13	851559	P1C	A	50C	FWSTA24	851559
P1A	A	48A	FWSTA16	851559	P1C	A	51C	FWSTA27	851559
P1A	A	49A	FWSTA19	851559	P1C	A	52C	FWSTA30	851559
P1A	A	51A	FWSTA25	851559	P1C	A	57C	FWSTA47	851442
P1A	A	52A	FWSTA28	851559	P1C	A	58C	FWSTA41	851442
P1A	A	56A	FWSTA42	851442	P1C	A	59C	FWSTA51	851442
P1A	A	57A	FWSTA45	851442	P1A	B	36A	FWSNC01	851431
P1A	A	58A	FWSTA37	851442	P1A	B	46A	FWSNC04	851431
P1A	A	59A	FWSTA49	851442	P1A	B	60A	FWSNC07	851432
P1B	A	37B	FWSTA08	851559	P1A	B	61A	FWSNC10	851432
P1B	A	38B	FWSTA11	851559	P1A	B	62A	FWSNC13	851432
P1B	A	45B	FWSTA14	851559	P1A	B	63A	FWSNC16	851432
P1B	A	48B	FWSTA17	851559	P1B	B	36B	FWSNC02	851431
P1B	A	49B	FWSTA20	851559	P1B	B	46B	FWSNC05	851431
P1B	A	50B	FWSTA23	851559	P1B	B	60B	FWSNC08	851432
P1B	A	51B	FWSTA26	851559	P1B	B	61B	FWSNC11	851432
P1B	A	52B	FWSTA29	851559	P1B	B	62B	FWSNC14	851432
P1B	A	56B	FWSTA43	851442	P1B	B	63B	FWSNC17	851432
P1B	A	57B	FWSTA46	851442	P1C	B	36C	FWSNC03	851431
P1B	A	58B	FWSTA48	851442	P1C	B	46C	FWSNC06	851431
P1B	A	59B	FWSTA50	851442	P1C	B	60C	FWSNC09	851432
P1C	A	37C	FWSTA09	851559	P1C	B	61C	FWSNC12	851432
P1C	A	38C	FWSTA12	851559	P1C	B	62C	FWSNC15	851432
P1C	A	45C	FWSTA15	851559	P1C	B	63C	FWSNC18	851432

NOTES:
1. ALL INSTRUMENT & EQUIPMENT NUMBERS TO BE PREFIXED WITH "2FWS-" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN. AN ASTERISK (✱) WILL REPLACE THE DASH (-) IN THE PREFIX FOR EQUIPMENT OR INSTRUMENTS WHICH ARE PART OF NUCLEAR SAFETY FEATURES SYSTEM.
2. G.E. IDENTIFICATION NUMBERS ARE SHOWN IN SQUARES.
3. ALL PIPING IS CLASS 1511 EXCEPT AS NOTED.
4. ALL PRESSURE CONNECTIONS, VENTS & DRAINS ARE 3/4" UNLESS OTHERWISE NOTED.
5. Δ CONNECTIONS ONLY PROVIDED FOR ASME TEST. INSTRUMENTS WILL NOT BE FURNISHED.
6. ALL VENT HV'S FAIL CLOSED.
7. PROVISION FOR REHEATER DRAIN TANK QUENCH SPRAY.
8. ✦ DENOTES "TO BE LOCATED IN RADIATION ZONES 4, 5 OR 6, PREFERABLY 5 OR 6.
9. SAMPLE CONNECTIONS PER GE DOCUMENT NO. 22A2708 (MFL A62-42401).
10. FLANGES AND SPACER TO BE PROVIDED AS PROVISION FOR BLANKING LINE DURING ASME TEST.
11. # DENOTES SUPPLIED BY GE-NED.
12. △ DENOTES TRANSIENT ANALYSIS RECORDING SYSTEM.
13. ## DENOTES SUPPLIED BY PUMP VENDOR.
14. LOCATE CONTROL VALVES, FV-2A,B&C AS CLOSE TO CONDENSER CONNECTION AS POSSIBLE.
15. ◄► DENOTES DISSIMILAR METAL WELDS.
16. NO FLAG SHOWN ON CORRESPONDING DOCUMENT. COORDINATES PROVIDE INTERFACE LOCATION.

THIS DRAWING WAS PRODUCED ELECTRONICALLY, DO NOT MAKE ANY CHANGES MANUALLY.

QA CAT II

NIAGARA MOHAWK
NINE MILE POINT
NUCLEAR STATION - UNIT 2
SCRIBA, N.Y.

PIPING & INSTRUMENTATION DIAGRAM
FEEDWATER SYSTEM

SCALE NONE | DRAWING NO 12177-PID-6A-12

MF	REV	DATE	DESCRIPTION OF REVISION	M.O.	DFT	DES	CHKD	ENG	ELEC	ME	STR
M	12	3-22-91	INCORPORATES ECN NO'S FWS-616 & 618 INCORPORATES NEW BORDER	LMH	JMH						
	11	2-24-90	INCORPORATES EDC NO. 2M1012IA AND 2F00038A	T5E	JHC				UB	RSB	

SEE DRAWING MICROFILM RECORDS FOR PRIOR ISSUES

SI APERTURE CARD

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FOR INFORMATION ONLY

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