



MARK NUMBER	VALVE DESCRIPTION	SIZE	NO. OF VALVES
MOV18	VV000-B-220	3/4"	1
MOV24,28,34	VV000-F-220	1/2"	3
MOV4A	VV030-C-2K0	5"	1
MOV5A	VV030-B-220	1/2"	1
MOV14B	VV030-D-2K0	3"	1
MOV15B	VV030-E-2K0	3"	1
V1	VV030-B-220	1/2"	1
V4	VV030-C-2K0	5"	1
V18,19,41,42,89	VV030-E-2K0	3"	7
V45,103,104,107,109,111,114,185,187,237,252,256,258	VV060-D-2	3/4"	13
V47	VV060-C-2	2"	1
V48	VV060-H-2	2"	1
V57	VV030-B-220	1/2"	1
V11,15	VV015-F-2-2K	3"	2
V12,14,15,16,18,256,258	VV060-C-2	3/4"	7
V17,208	VV060-F-4	3/4"	2
V181,371	VV060-D-4	3/4"	2
V254	VV030-K-2K	10"	1
V255	VV030-G-2K	10"	1
V256,312	VV030-E-2K	2"	2
V377	VV000-B-220	24"	1
V415	VV015-F-2	3/4"	1
V417	VV015-H-2	3/4"	1
V420A	VV020-F-D-2	3/4"	1
V87	VV030-G-2K	2"	1
V2000	SUPPLIED WITH CE101		1

SI APERTURE CARD

- NOTES:
- ALL INSTRUMENT AND EQUIPMENT NUMBERS TO BE PREFIXED WITH "2-RHS" 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.
 - BE IDENTIFICATION NUMBERS ARE SHOWN IN SQUARES (TO BE PREFIXED BY E12 UNLESS OTHERWISE PREFIXED).
 - CLASS 302 SCH30 STAINLESS STEEL SPOOL PIECE.
 - ALL INSTRUMENT, TEST, DRAIN AND VENT CONNECTIONS ARE 3/4" EXCEPT AS NOTED.
 - ALL PIPING IS CLASS 311 UNLESS OTHERWISE NOTED.
 - VALVE POSITIONS ARE SHOWN FOR NORMAL OPERATION OF THE PLANT. THE SYSTEM IS ON STAND-BY, READY TO START RHS LPCI MODE OF OPERATION.
 - INDICATES DISSIMILAR METAL WELDS.
 - THE FOLLOWING TEMPERATURE ELEMENTS 2-RHS-TEA7AB, 48AB, 49AB, IN AREA LEAK DETECTION INSTRUMENTATION ASSOC. WITH THIS SYSTEM ARE SHOWN ON PID-528 (REACTOR BUILDING VENTS).
 - FOR PUMP PERFORMANCE CHARACTERISTICS SEE S&W MFR'S NUMBER 16-310-001-022.
 - 2-RHS-LS3 IS A "FIGURE 8" TYPE SPECTACLE FLANGE. THE BLANK INSERT PORTION OF THE FIGURE 8 SHALL BE REMOVED AND DISCARDED WHILE THE FULL BORE INSERT PORTION SHALL BE PERMANENTLY INSTALLED. THIS INSTRUMENT REQUIRES SEISMIC QUALIFICATION AND MAY BE PURCHASED, INSTALLED, TESTED AND CALIBRATED TO QUALITY ASSURANCE CATEGORY II REQUIREMENTS.
 - INDICATES SUPPLIED BY GE-MED.
 - LINE FROM RELIEF VALVES TO SLOPE DOWNWARD CONTINUOUSLY TO SUPPRESSION POOL 1/4" PER FOOT MINIMUM.
 - INSTALLATION OF THIS VALVE IN ACCORDANCE WITH THE BRIDGEWALL MARKING WILL PROVIDE LEAK TIGHTNESS ON THE FLANGE SIDE OF THE VALVE FOR TYPE C TESTING.
 - NO FLAG SHOWN ON CORRESPONDING DOCUMENT. COORDINATES PROVIDE INTERFACE LOCATION.

9305040321
 NUCLEAR SAFETY RELATED
 QA CAT I, II

PIPING & INSTRUMENTATION DIAGRAM
 RESIDUAL HEAT REMOVAL
 NINE MILE POINT NUCLEAR STATION-UNIT 2
 NIAGARA MOHAWK POWER CORPORATION
 STONE & WENSTER ENGINEERING CORPORATION
 CHERRY HILL, N.J.
 DRAWING NUMBER 12177-PID-31F-10
 DESIGNED BY: F.S. LINDNER
 CHECKED BY: E.F. CURRAN

NO.	DATE	DESCRIPTION	BY	CHKD
1	12/17/77	ISSUED FOR COMPUTER DATA BASE	F.S. LINDNER	E.F. CURRAN
2	1/15/78	ISSUED FOR COMPUTER DATA BASE	F.S. LINDNER	E.F. CURRAN
3	2/15/78	ISSUED FOR COMPUTER DATA BASE	F.S. LINDNER	E.F. CURRAN
4	3/15/78	ISSUED FOR COMPUTER DATA BASE	F.S. LINDNER	E.F. CURRAN
5	4/15/78	ISSUED FOR COMPUTER DATA BASE	F.S. LINDNER	E.F. CURRAN
6	5/15/78	ISSUED FOR COMPUTER DATA BASE	F.S. LINDNER	E.F. CURRAN
7	6/15/78	ISSUED FOR COMPUTER DATA BASE	F.S. LINDNER	E.F. CURRAN
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14	1/15/79	ISSUED FOR COMPUTER DATA BASE	F.S. LINDNER	E.F. CURRAN
15	2/15/79	ISSUED FOR COMPUTER DATA BASE	F.S. LINDNER	E.F. CURRAN
16	3/15/79	ISSUED FOR COMPUTER DATA BASE	F.S. LINDNER	E.F. CURRAN
17	4/15/79	ISSUED FOR COMPUTER DATA BASE	F.S. LINDNER	E.F. CURRAN
18	5/15/79	ISSUED FOR COMPUTER DATA BASE	F.S. LINDNER	E.F. CURRAN
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THIS DRAWING CREATED ELECTRONICALLY

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