MARK NUMBER	VALVE DESCRIPTION	SIZE	NO. OF VALVES
AOV15B	VCW038-C-2KQ	16"	1
MOV4B	VGW038-G-2KQ	6"	1
MOV8B	VYF088-F-2RQ	18"	1
MOV9B	VYF038-B-2RQ	18"	1
MOV12B	VYF038-B-2RQ	18"	1
MOV115	VGW038-G-22Q	16"	1
MOV116	VGW815-P-3KQ	16"	1
MOV268,27B	VOS150-F-2Q	1"	2
SOV35B	VOS150-MC-2Q	3/4"	1
SOV36B	VOS150-FC-2Q	3/4"	1
SOV70B,71B	VOS150-FC-2Q	1"	2
SOV95B	VOS150-MC-4Q	1"	1
SOV126	VOS150-FC-3Q	3/4"	1
Y2	VCW038-B-2P	18"	1
Y5	VGW038-G-2P	18"	1
V11	VGW038-C-2K	6"	1
V25,26,272,273	VOS060-D-2	1"	4
V31,32,33,34	VOS060-D-3	1"	4
V93,95,123,124 V127,128,130,189 V192,287,305	VOS060-D-2	3/4"	11
V188	VOS150-F-4	1"	1
V141,142,198,199, V196,372,373	VCS060-C-2	3/4"	7
V117,118	VCS060-H-2	3/4"	2
V151	VOS060-C-4	1"	1
V179	VOS060-D-3	3/4"	1
V268,269,341,342	VSS150-B-2	3/4"	4
V288	VCS060-C-4	3/4"	1
V313	VCS060-C-2	2"	1
V319	VCS060-C-2	1"	1
V375	VBS060-C-4	1/2"	1
V420B	VBS060-D-2	3/4"	1
V2002	LTR	LTR	1
V433B	VCW060-P-2	6"	1
V433B	VOS250-A-2	1/2"	1
V448	VBS015-CA-3	3/4"	1

NOTES.

1. ALL INSTRUMENT AND EQUIPMENT NUMBERS TO BE PREFIXED WITH "2RHS" 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. GE IDENTIFICATION NUMBERS ARE SHOWN IN SQUARES (TO BE PREFIXED BY E12 UNLESS OTHERWISE PREFIXED.)
3. ALL INSTRUMENT, TEST, DRAIN AND VENT CONNECTIONS ARE 3/4" EXCEPT AS NOTED.
4. ALL PIPING IS CLASS 311 UNLESS OTHERWISE NOTED.
5. VALVE POSITIONS ARE SHOWN FOR NORMAL OPERATION OF THE PLANT. THE SYSTEM IS ON STAND-BY READY TO START RHS-LPCI MODE OF OPERATION.
6. ◆ INDICATES DISSIMILAR METAL WELDS.
7. THE ELEMENTS 2RHS#TE49A-D, IN AREA LEAK DETECTION INSTRUMENTATION ASSOC. WITH THIS SYSTEM ARE SHOWN ON PID-52B & D.
8. FOR PUMP PERFORMANCE CHARACTERISTICS SEE S&W MFR'S NUMBER 16.310-001-026.
9. THE SOLENOID VALVE WITHIN THE AIR OPERATOR (A.O) ON 2RHS#AOV150 SHALL BE DISCONNECTED AND REMOVED.A PERMANENT CONNECTION WITH A MANUAL BLOCK VALVE AND VENT VALVE SHALL BE MADE FROM IAS TO THE AIR LINE INTERNAL TO THE A.O. WHICH LEADS FROM THE REMOVED SOLENOID TO THE AIR PISTON. THIS CONNECTION WILL PERMIT PERIODIC FUNCTIONAL TESTING OF 2RHS#AOV150 IN ACCORDANCE WITH THE ASME XI PROGRAM.
10. A312 TP304 OR A376 TP304 SCH 80 STAINLESS STEEL PIPE NIPPLES SHALL BE USED TO CONNECT THIS VALVE TO THE CLASS 601 AND 151H PIPING.
11. THIS INSTRUMENT REQUIRES SEISMIC QUALIFICATION AND MAY BE PURCHASED, INSTALLED, TESTED AND CALIBRATED TO QUALITY ASSURANCE CATEGORY II REQUIREMENTS.
12. DELETED
13. # INDICATES EQUIPMENT OR INSTRUMENT SUPPLIED BY GE-NED.
14. LINES FROM RELIEF VALVES TO SLOPE DOWNWARD CONTINUOUSLY TO SUPPRESSION POOL 1/4" PER FOOT MINIMUM.
15. ROUTE VENT AND DRAIN LINES TO FUNNELS LOCATED IN LOW RADIATION AREAS AND LOCATE VALVES AS CLOSE AS POSSIBLE TO DRAIN FUNNELS WHERE NOTED.
16. THESE LEVEL SWITCHES ARE PROVIDED WITH A 1" MNPT CONNECTION AND ARE TO BE MOUNTED IN THE RUN OF A TEE IN THE DIRECTION OF FLOW.
17. NO FLAG SHOWN ON CORRESPONDING DOCUMENT. COORDINATES PROVIDE INTERFACE LOCATION.
18. SCHEDULE 80 CHROME MOLY PIPE.
19. 2RHS#MOV48 HAS A 1/4" DIAMETER VENT HOLE DRILLED IN THE UPSTREAM/INLET SIDE OF THE DISC TO PREVENT PRESSURE LOCKING PER DESIGN CHANGE M2-99-024.
20. 2RHS#MOV115 HAS A 1/4" DIAMETER VENT HOLE DRILLED IN THE DOWNSTREAM/OUTLET SIDE OF THE DISC TO PREVENT PRESSURE LOCKING PER DESIGN CHANGE M2-99-026.

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

LR NOTE:
PLEASE REFER TO DRAWING LR-000 SHEETS 2A THROUGH 2F FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

SAFETY RELATED
QUALITY RELATED
NON-SAFETY RELATED
(REF. SAR FIG. 5.4-13e & ISPT-31E)

Constellation Energy Group
NINE MILE POINT NUCLEAR STATION UNIT 2 - SCRIBA, N.Y.

PIPING & INSTRUMENTATION DIAGRAM
RESIDUAL HEAT REMOVAL

SCALE NONE | DRAWING NO LR-31E-0

NF	REV	DATE	DESCRIPTION OF REVISION	M.O.	DFT	DES	CHKD	ENG	ELEC	MECH	STR

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