LR-31F-0

MARK NUMBER	VALVE DESCRIPTION	SIZE	NO. OF VALVES
MOV1B	VVM080-S-22O	24"	1
MOV2A,2B,8A	VVF080-F-2RO	18"	3
MOV4A	VGW030-G-2KO	8"	1
MOV9A	VVF030-B-2RO	18"	1
MOV142	VOW030-D-2KO	3"	1
MOV149	VGW030-G-2KO	3"	1
V1	VGW030-B-2P	18"	1
V4	VGW030-G-2P	18"	1
V38,39,41,42,89	VGW030-G-2K	3"	5
V40,103,104,107,109, V111,144, 187, V251,259,286,370	VOS060-D-2	3/4"	12
V47	VKS060-C-2	2"	1
V185	VOS080-D-2	3/4"	1
V48	VCS060-H-2	2"	1
V57	VGW030-G-2K	18"	1
V91,178	VGW015-D-4K	3"	2
V170,174,175,176, V186,256,258	VCS060-C-2	3/4"	7
V177,288	VCS060-C-4	3/4"	2
V181,371	VOS060-D-4	3/4"	2
V254	VGW030-K-2K	10	1
V255	VGW030-G-2K	10	1
V705,312	VCS060-C-2	2"	2
V377	VVM080-B-22EO	24"	1
V415	VOS150-F-2	3/4"	1
V417	VOS150-W-2	3/4"	1
V420A	VOS060-D-2	3/4"	1
V87	VGW030-G-2K	3"	1
V2000	SUPPLIED WITH CE181		1

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

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. CLASS 302 SCH80 STAINLESS STEEL SPOOL PIECE.
4. ALL INSTRUMENT, TEST, DRAIN AND VENT CONNECTIONS ARE 3/4" EXCEPT AS NOTED.
5. ALL PIPING IS CLASS 311 UNLESS OTHERWISE NOTED.
6. VALVE POSITIONS ARE SHOWN FOR NORMAL OPERATION OF THE PLANT. THE SYSTEM IS ON STAND-BY, READY TO START RHS LPCI MODE OF OPERATION.
7. —⊕— INDICATES DISSIMILAR METAL WELDS.
8. THE FOLLOWING TEMPERATURE ELEMENTS 2-RHS#TE47A,B, 48A,B, 49A,B, IN AREA LEAK DETECTION INSTRUMENTATION ASSOC. WITH THIS SYSTEM ARE SHOWN ON PID-52B (REACTOR BUILDING VENTS).
9. FOR PUMP PERFORMANCE CHARACTERISTICS SEE S&W MFR'S NUMBER 16.310-001-002.
10. 2RHS#FL53 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.
11. THIS INSTRUMENT REQUIRES SEISMIC QUALIFICATION AND MAY BE PURCHASED, INSTALLED, TESTED AND CALIBRATED TO QUALITY ASSURANCE CATEGORY II REQUIREMENTS.
12. # INDICATES SUPPLIED BY GE-NED.
13. LINES FROM RELIEF VALVES TO SLOPE DOWNWARD CONTINUOUSLY TO SUPPRESSION POOL 1/4" PER FOOT MINIMUM.
14. 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.
15. NO FLAG SHOWN ON CORRESPONDING DOCUMENT. COORDINATES PROVIDE INTERFACE LOCATION.
16. 2RHS#MOV142 AND 2RHS#MOV149 SHALL BE DE-ENERGIZED AND DISCONNECTED FROM IT'S POWER SOURCE (BREAKER OPEN) DURING NORMAL PLANT OPERATION TO PRECLUDE THE POSSIBILITY OF SPURIOUS ACTUATION DURING A CONTROL ROOM FIRE (APPENDIX R). THIS IS NOT MEANT TO PRECLUDE USE OF THIS VALVE DURING NORMAL OPERATION, BUT TO ENSURE THAT THE VALVE REMAINS DE-ENERGIZED WHEN NOT IN USE.
17. 2RHS#MOV4A HAS A 1/4" DIAMETER VENT HOLE DRILLED IN THE UPSTREAM/INLET SIDE OF THE DISC TO PREVENT PRESSURE LOCKING PER DESIGN CHANGE N2-99-022.
18. OFF NORMAL STATUS DISPLAY SYSTEM IS ABANDONED IN PLACE.

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

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

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

PIPING & INSTRUMENTATION DIAGRAM
RESIDUAL HEAT REMOVAL

SCALE NONE | DRAWING NO LR-31F-0

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

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