D136

LR-31A-0

MARK NUMBER	VALVE DESCRIPTION	SIZE	NO. OF VALVES
MOV15A	VGW030-C-2PQ	16"	1
MOV24A	VGW090-F-1ZQ	12"	1
MOV25A	VGW030-C-2PQQ	16"	1
MOV40A	VGW090-D-1ZQ	12"	1
MOV67A,B	VGW150-F-1WQ	2"	2
MOV112	VGW090-F-1WQ	28"	1
MOV113	VGW090-C-1ZQ	28"	1
AOV16A,B,C	VGW090-C-1WQ	12"	3
AOV39A,B	VGW090-C-1RQ	12"	2
HCV53A,B,C	VGW090-C-1WQ	12"	3
HCV54A,B	VGW090-C-1RQ	12"	2
HCV131	VGW090-C-1WQ	28"	1
V43,44,45,46,53 V115,116,209,210 V211,212,214,215 V216,217,218,219 V220,221,225,226 V228,229,230,231 V343,344,345,346 V368,369	VSS150-B-2	3/4"	31
V54	VBS150-V-2	3/4"	1
V78,71	VGW030-G-2K	1"	2
V59,237	VDS150-F-2	3/4"	2
V152,153,154,395 V388,360,361,402 V158	VOS060-D-2	3/4"	9
V213,242,386,387	VGS060-C-2	3/4"	4
V224,227	VDS150-F-1	1"	2
V384	VGW030-G-2K	8"	1
V389	VGW030-K-2KE	8"	1
V323,324	VSS150-A-2	3/4"	2
V298,489,411	VSS150-B-2	3/4"	3
V441	VDS150-F-1	3/4"	1
V445,446,447	VOS600-S-2	1/2"	3

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. G.E. IDENTIFICATION NUMBERS ARE SHOWN IN SQUARES (TO BE PREFIXED BY E12 UNLESS OTHERWISE PREFIXED)
3. ALL INSTRUMENTS, TEST, DRAIN, & VENT CONNECTIONS SHALL BE 3/4" EXCEPT AS NOTED.
4. LINES 1" & SMALLER WHICH ARE PART OF THE REACTOR COOLANT PRESS. BOUNDARY SHALL BE SAFETY CLASS 2.
5. VALVE POSITIONS ARE SHOWN FOR NORMAL OPERATION OF THE PLANT. THE SYSTEM IS ON STANDBY, READY TO START RHS LPCI MODE OF OPERATION.
6. ALL INSTRUMENT LINES INSIDE THE DRYWELL ARE CLASS 1516 AND OUTSIDE THE DRYWELL ARE CLASS 1502 UNLESS OTHERWISE NOTED.
7. —●— INDICATES DISSIMILAR METAL WELD.
8. 2RHS#FLS9 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 SHALL BE PERMANENTLY INSTALLED.
9. 2RHS#MOV67A,B, 2RHS#MOV113 AND 2RHS#MOV112 SHALL BE DE-ENERGIZED AND DISCONNECTED FROM THEIR 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.
10. DURING PERIODIC SURVEILLANCE TESTING (MODE E OF GE PROCESS DATA SHEET), THE ORIFICE PLATE FOR 2RHS#RO55A MUST BE REPLACED WITH A TEMPORARY ORIFICE PLATE (EITHER 2RHS-RO68A OR B) TO PREVENT PUMP RUNOUT. TEMPORARY PLATES 2RHS-RO68A AND B ARE IDENTICAL. EITHER OF THESE MAY BE INSERTED INTO 2RHS#RO55A-C AS REQUIRED FOR TESTING PURPOSES. 2RHS#RO55A MUST BE REINSTALLED UPON COMPLETION OF TESTING.
11. ◄—●—► INDICATES MINIMUM DISTANCE FOR INSTALLATION.
12. # INDICATES EQUIPMENT SUPPLIED BY GE-NED.
13. ACTUAL SOCKOLET CONNECTION ON #28A PENETRATION PIPE.
14. OFF-NORMAL STATUS DISPLAY SYSTEM IS ABANDONED IN PLACE.

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

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

Constellation Energy Group

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

PIPING & INSTRUMENTATION DIAGRAM
RESIDUAL HEAT REMOVAL SYSTEM

SCALE NONE | DRAWING NO LR-31A-0

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

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