LR-33A-0

MARK NUMBER	VALVE DESCRIPTION	SIZE	NO. OF VALVES
AOV108	VCWB98-E-1RQ	12"	1
HCV138	VCWB98-C-1ZQ	12"	1
MOV107	BY GE	12"	1
MOV111	BY GE	12"	1
MOV118	BY GE	18"	1
V16	VCWB15-E-2K	28"	1
V28,29,72,73,83,84 V128,133,138	VSS150-B-2	3/4"	9
V38	VGWB98-F-22	3	1
V31	VGWB98-F-2M	3"	1
V35,36	VGS860-E-2	2"	2
V45	VGS150-W-2	3/4"	1
V61,79,88,121	VGS060-D-2	3/4"	4
V62	VCWB15-P-2K	3"	1
V63	VCWB15-E-2K	3"	1
V64,96	VCWB15-H-2K	3"	2
V66,67,68,69,93,94, 115,117,118,053,134,136 V139,140,256,251	VGS150-F-2	3/4"	17
V75,76,77,82	VGS060-D-2	2"	4
V78,81,122	VGS060-C-2	3/4"	3
V99,100,101,102	VGS060-E-2	3/4"	4
V125, 257	VSS150-B-2	3/4"	2
V256	VGS060-B-3	3/4"	1
V51	VGS080-D-2	3/4"	1

NOTES:
1. ALL INSTRUMENT AND EQUIP NUMBERS TO BE PREFIXED BY "2CSH-" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN. AN ASTERISK (#) WILL REPLACE THE DASH (-) IN THE PREFIX FOR EQUIPMENT OR INSTRUMENTS WHICH ARE A PART OF NUCLEAR SAFETY FEATURES SYSTEM.
2. BONNET VENT CONNECTIONS ON VALVES 2CSH#MOV107, & 118 HAVE A 3/4" NIPPLE AND CAP OF THE SAME PIPE CLASS AS THE LINES WHERE THE VALVES ARE LOCATED.
3.
4. GE IDENTIFICATION NUMBERS ARE SHOWN IN SQUARES. (TO BE PREFIXED BY E22 UNLESS OTHERWISE PREFIXED)
5. ALL LOCAL VENTS, DRAINS, TEST CONN, PRESSURE CONN, FLOW TAPS SHALL BE 3/4".
6. ⟶ INDICATES A DISSIMILAR WELD AT PIPE CLASS CHANGE.
7. VALVE POSITIONS ARE SHOWN FOR NORMAL OPERATION OF THE PLANT. THE SYSTEM IS ON STANDBY, READY TO START ON "LOCA" SIGNALS.
8. ALL INSTRUMENT LINES INSIDE DRYWELL TO BE 3/4" CL150# SCH160 UNLESS OTHERWISE NOTED.
9. LINES 1" AND SMALLER WHICH ARE PART OF THE REACTOR COOLANT PRESSURE BOUNDARY SHALL BE SAFETY CLASS 2.
10. MOV111 SHALL BE INSTALLED WITH THE PACKING GLAND ON UPSTREAM SIDE OF THE VALVES DISC.
11. LEVEL CONNECTIONS ARE 1" UNLESS OTHERWISE NOTED.
12. SEE PID-4A FOR OTHER PIPING & INSTRUMENTATION ON CONDENSATE STORAGE TANK.
13. LEVEL SWITCH IS ULTRASONIC TYPE FOR ANNUNCIATION ONLY.
14. CLASS 153 STAINLESS STEEL PIPE, SCHEDULE 100.
15. VALVE 2CSH#MOV133 IS THROTTLED TO MAINTAIN FLOW OF 7175 GPM.
16. 2CSH#00186 HAS BEEN PROCURED AND DELIVERED TO THE SITE AS A BLANK ORIFICE. BASED UPON CALCULATION A-18.1-S-28 REV 0 AND PRE-OP TEST RESULTS. THIS ORIFICE IS NOT REQUIRED.
17. = DENOTES EQUIPMENT SUPPLIED BY GE-NED.
18. ◂0▸ DENOTES MINIMUM DISTANCE FOR INSTALLATION.
19. VALVES V54 AND V96 WILL BE THROTTLED AND LOCKED IN THROTTLED POSITION.
20. PIPING IS SCH.160 AND FITTINGS ARE 6000#.

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

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

SAFETY RELATED
QUALITY RELATED
(REF. SAR FIG. 6.3-6a & ISPT-33A)

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

PIPING & INSTRUMENTATION DIAGRAM
HIGH PRESSURE CORE SPRAY SYSTEM

SCALE NONE | DRAWING NO LR-33A-0

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

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