LR-36A-0

MARK NUMBER	VALVE DESCRIPTION	SIZE	NO. OF VALVES
MOV 1A, 1B	VOW015-A-2KQ	3"	2
MOV 5A, 5B	VKV-150-L-NQ	2"	2
HCV111	VGW015-R-2KQ	3"	1
HCV114	VOW150-K-1HQ	2"	1
V1	VCF060-J-4R	3/4"	1
V2	VOS060-E-4	3/4"	1
V3	VCS060-J-4	1"	1
V4	VOS060-E-4	1"	1
V5	VOS060-E-2	1"	1
V8,9,28,29	VGW015-R-2K	3"	4
V12,14	VCS150-A-2	1 1/2"	2
V13,15,17,20,52,53	VOS150-W-2	1 1/2"	7
V18	VGS060-D-4	1"	1
V16,21	VGS060-D-2	1"	2
V40,41,42,43,44,47	VOS060-E-2	3/4"	6
V23,24,25	VOS150-W-2	1"	3
V22,26,27	VOS150-W-2	3/4"	3
V45,46	VPW015-HA-2K	3"	2
VEX 3A, 3B	BY GE (FLG'D)	1 1/2"	2
V34,35,48,49	VOS150-L-2	3/4"	4
V30	VSS150-A-2	3/4"	1
V31,32,33,36,37	VSS150-L-2	3/4"	5
V18	VCW150-L-1NEQ	2"	1
V50,51	VOW150-K-1N	2"	2
HCV 116	BY CONTROLS	3/4"	1
V62,63,64,65	VOS150-W-1	2"	4
V66,67,68,69	VOS150-W-2	2"	4
V150,151,152,153,154 V155,156,157,158,159 V160,161,162,163,164 V165	VOS600-S	1/2"	16
V166,167,168,169	VOS250-A-2	1/2"	4

NOTES.

1. ALL INSTRUMENT & EQUIPMENT NUMBERS TO BE PREFIXED WITH "2SLS-" 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 CODE SHOWN IN SQUARES (TO BE PREFIXED BY C41).
3. ALL PRESSURE CONNECTIONS ARE 3/4".
4. FLUSHING CONNECTIONS SHALL BE LOCATED TO ALLOW MAXIMUM SYSTEM FLUSH AND DRAIN.
5. #VEX3A OPENS WITH START OF #P1A AND #VEX3B OPENS WITH START OF #P1B.
6. FOR DETAILS OF PIPING DESIGN FOR OPEN ENDED VENTS, DRAIN, TEST CONNECTION, OR CHEMICAL CLEANING CONNECTION, SEE SPEC NO. NMP2-P301C.
7. DISPOSE OF BORATED DRAINS IN 55 GALLON DRUM.
8. INSTALL IN STEM-UP POSITION.
9. INSTALL IN STEM-UP POSITION WITH TK 1 LIQUID UNDER SEAT.
10. RELIEF VALVE SPRING SET IS 1387 PSIG.
11. ORIENT #P1107 SO THAT IT CAN BE READ FROM VALVE #HCV116 LOCATION.
12. THE ELEVATION OF THE MAKE-UP WATER AND INSTRUMENT AIR LINES SHALL BE ABOVE THE TOP OF THE STORAGE TANK BETWEEN #TK 1 AND V2 AND V4.
13. 600 # ANSI B16.5-1968 LARGE TONGUE FLANGE, NO RAISED FACE, SA182-F316 MATERIAL NUT MATERIAL SA/A194-GR2H.
14. ALL LINES 1" AND SMALLER WHICH ARE PART OF THE REACTOR COOLANT PRESSURE BOUNDARY ARE SAFETY CLASS 2.
15. THE SUCTION PIPING BETWEEN THE OUTLET NOZZLE OF THE STORAGE TK AND TEST TK AND THE INLET FLANGE OF EITHER PUMP SHALL BE ROUTED SUCH THAT THE MAXIMUM ACTUAL LENGTH OF SUCTION PIPING IN ANY SUCTION PATH SHALL NOT EXCEED 12 FT.
16. FOR SYSTEM CLEANING AND FLUSHING ONLY, EXPANSION JOINTS 2SLSBEJ2A & 2B ARE TO BE REPLACED WITH STRAINERS 2SLSBSTR1A & 1B. EXPANSION JOINTS MUST BE REINSTALLED UPON COMPLETION OF SYSTEM CLEANING AND FLUSHING.
17. ♦ DENOTES DISSIMILAR METAL WELD IN FIELD.
18. ⟷ DENOTES MINIMUM DISTANCE FOR INSTALLATION.
19. STRAINER ELEMENT (PLATE) IS 1/4" THK, 3 5/8" DIA, AND STAINLESS STEEL-TYPE 304SS. FIELD FABRICATED AND INSTALLED WITH 150# SOCKET WELD R.F. FLANGES.
20. # DENOTES EQUIPMENT SUPPLIED BY GE.
21. ALL 2" AND SMALLER CLASS 1 PIPING SHALL USE BUTT WELD END FITTINGS TO THE SAME SPEC AS 2 1/2" AND LARGER FITTINGS BUT THE SAME SCHEDULE AS 2" AND SMALLER PIPE FOR THE SPECIFIED PIPE CLASS.
22. SLOPE DOWNWARD AT 1/8" PER FOOT MINIMUM SLOPE WHERE NOTED.
23. THIS INSTRUMENT REQUIRES SEISMIC QUALIFICATION AND MAY BE PURCHASED, INSTALLED, TESTED AND CALIBRATED TO QUALITY ASSURANCE CATEGORY II REQUIREMENTS.
24. THE VENT AND DRAIN CONNECTIONS FOR 2SLSBLT6A,B,C & D ARE INSULATED BUT DO NOT REQUIRE HEAT TRACING (SEE MOD. 88-0791).
25. OFF-NORMAL STATUS DISPLAY SYSTEM IS ABANDONED IN PLACE.

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

SAFETY RELATED
QUALITY RELATED
(REF. SAR FIG. 9.3-17a & ISPT-36A)

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

PIPING & INSTRUMENTATION DIAGRAM
STANDBY LIQUID CONTROL

SCALE NONE | DRAWING NO LR-36A-0

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

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

...\LR-036_a.dgn 5/14/2004 12:46:21 PM

D 160