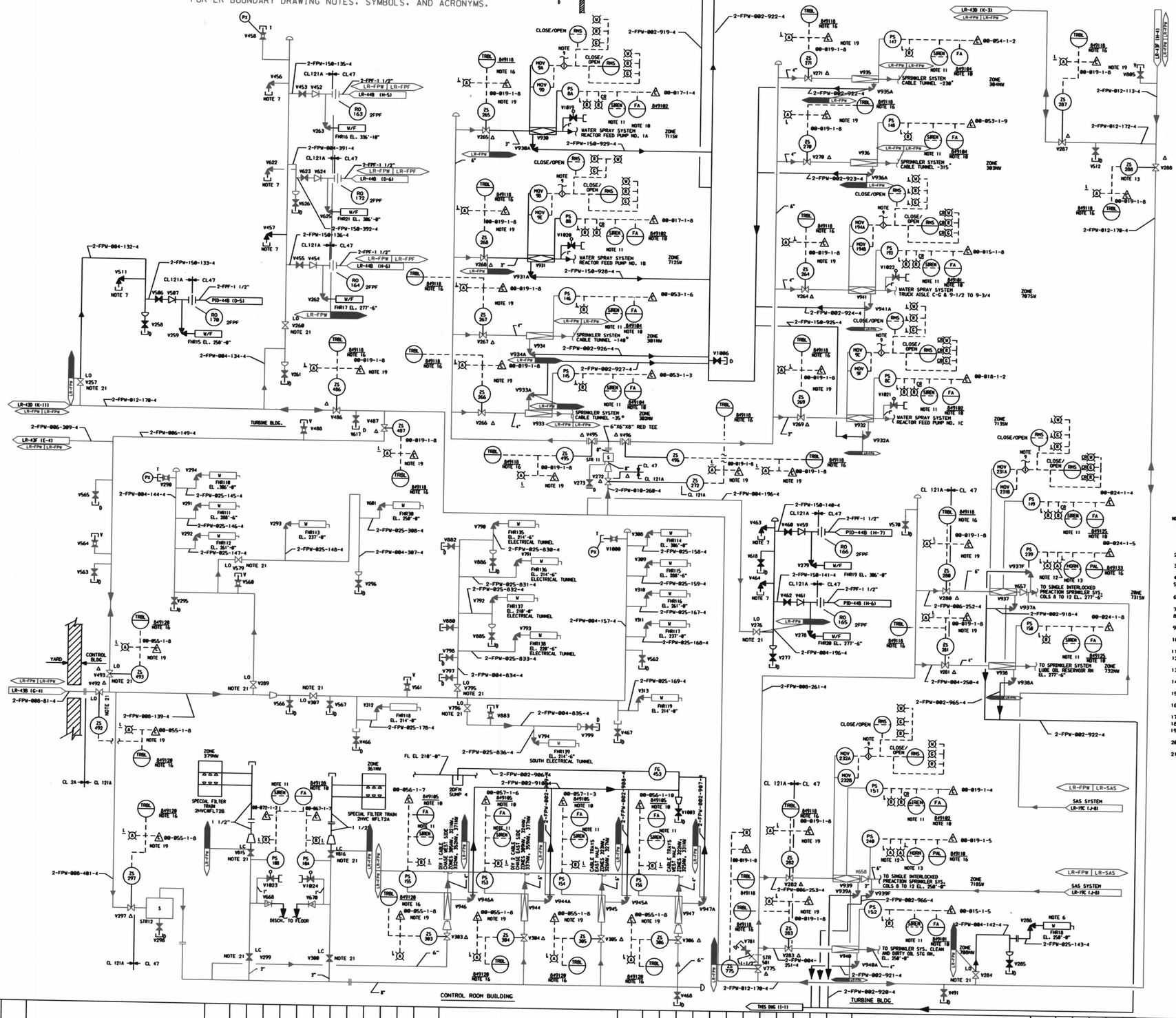
LR-43E-0

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



MARK NUMBER	VALVE DESCRIPTION	SIZE	NO. OF VALVES
V257, 260	VGF015-BB-4R	4"	2
V256, 261, 277, 285, V295, 296, 466, 467 V491, 512, 562, 563 V565, 566, 567, 570 V617, 618, 686, 797 V798, 799, 800, V882, 885, 886	VGT017-E-4	3/4"	26
V259, 262, 263, 278, V279, 625	VAT017-A-4	1-1/2"	6
V264, 265, 266, 267, V268, 269, 270, 271, V272, 290, 297, 300, V303, 304, 305, 309, V468, 495, 496, 657, V658, 668, 678, 815, V816, 930, 938A, V931, V31A, 932, V932A, 933, 933A, V934, V34A, 935, V935A, 936, 936A, V937, V37A, 937F V938, V38A, 939, V939A, 940, V940A, 941, 941A, V944, 944A, 945, V945A, 946, 946A, V947, 947A	SUPPLIED BY CONTRACTOR SPEC P402G		59
V272	VGF015-BC-4R	18"	1
V276, 284, 289, 307, V579	VGF015-BB-4R	4"	5
V487, 493	VGF015-BC-4R	6"	2
V281, 283	VGF015-BC-4F	4"	2
V286, 291, 292, 293, V294, 308, 309, 318, V311, 312, 313, 681	VAT017-A-4	2-1/2"	12
V287, 288	VGF015-BC-4R	12"	2
V298, 456, 488, 568, V561, 564, 883	VBT030-A-4	3/4"	7
V297, 492	VGF015-BC-4R	8"	2
V452, 454, 459, 461, V587, 624	VCT030-A-4	1-1/2"	6
V453, 455, 460, 462, V586, 623, 781	VGT017-E-4	1-1/2"	7
V456, 457, 511, 622 V463, 464	VAT017-B-4	2-1/2"	6
V486	VGF015-BC-4R	12"	1
V775	VGF015-BC-4F	8"	1
V798, 791, 792, 793 V794	VAT017-C-4	2-1/2"	5
V795, 796	VGF015-BE-4R	4"	2
V985	VGT020-C-4	3/4"	1
V1880	VOT030-A-4C	3/4"	1
V1881,1886	VGS060-C-4	3/4"	2
V286, 282	VGF015-BC-4F	6"	2
V1819, 1820, 1821, 1822, V1823, 1824	VBT040-A-4	1"	6

ASSOCIATED EQUIPMENT MARK NUMBERS			
VALVE NO.	VALVE TYPE	PRESSURE SWITCH	ACTUATION
930	DELUGE	PS 8A	MOV 9A,D
931	DELUGE	PS 8B	MOV 9B,E
932	DELUGE	PS 8C	MOV 9C,F
933	ALARM CHECK	PS 145	— —
934	ALARM CHECK	PS 146	— —
935	ALARM CHECK	PS 147	— —
936	ALARM CHECK	PS 148	— —
941	DELUGE	PS 193	MOV 194A,B

ASSOCIATED EQUIPMENT MARK NUMBERS				
LOW AIR PRESS SWITCH	VALVE NO.	VALVE TYPE	PRESS SWITCH	ACTUATION
PS239	937	DELUGE	PS 149	MOV231A,B
—	938	ALARM CHECK	PS 150	— —
PS240	939	DELUGE	PS 151	MOV232A,B
—	940	ALARM CHECK	PS 152	— —

NOTES:

1. ALL INSTRUMENT AND EQUIPMENT NUMBERS TO BE PREFIXED WITH "2FPW-" EXCEPT WHERE NOTED. AN ASTERISK (*) WILL REPLACE THE DASH (-) IN THE PREFIX FOR EQUIPMENT OR INSTRUMENTS WHICH ARE A PART OF NUCLEAR SAFETY FEATURES SYSTEMS.
2. WHERE POSSIBLE, ALL VALVES SHALL BE UNDERWRITER'S LABORATORY, INC. LISTED.
3. VALVES MARKED (J) ARE PROVIDED WITH POSITION SWITCHES TO SUPV. FULL OPEN.
4. ALL PIPING IS CL 121A EXCEPT AS NOTED OTHERWISE.
5. LOCAL DRAIN, VENT, AND TEST CONNECTIONS ARE 3/4" EXCEPT WHERE NOTED OTHERWISE.
6. ALL HOSE STATIONS HAVE 2-1/2" X 1-1/2" HOSE REDUCERS AFTER ANGLE VALVE TO ACCEPT THE 1-1/2" HOSE STATION.
7. 2-1/2" FIRE DEPARTMENT HOSE VALVE.
8. MAIN TRANSFORMER 2MTX- PRIMARY OR BACKUP ELECTRICAL FAULT SIGNAL.
9. INPUT FROM ANY SINGLE HEAT DETECTOR FROM ASSOCIATED ZONE.
10. COMMON FIRE ANNUNCIATOR AT P849 FOR EACH LOCAL PANEL.
11. COMMON FIRE SIREN FOR EACH LOCAL PANEL.
12. COMMON SUPERVISORY TROUBLE STATUS LIGHT FOR EACH LOCAL PANEL.
13. COMMON SUPERVISORY TROUBLE HORN FOR EACH LOCAL PANEL.
14. COMMON SUPERVISORY TROUBLE COMPUTER INPUT FOR EACH LOCAL PANEL.
15. INPUT FROM ANY SINGLE SMOKE DETECTOR IN ASSOCIATED ZONE.
16. COMMON SUPERVISORY TROUBLE ANNUNCIATOR AT P849 FOR EACH LOCAL PANEL.
17. COMMON FIRE ALARM STATUS LIGHT FOR EACH LOCAL PANEL.
18. COMPUTER GENERATED ALARM.
19. COMMON FIRE COMPUTER INPUT FOR ALL SUPERVISED MANUAL VALVES ASSOCIATED WITH THE LOCAL PANEL.
20. ANGLE DRAIN VALVES ARE INCLUDED IN MANUFACTURERS DELUGE, ALARM CHECK OR DRY PIPE VALVE TRIM PACKAGE.
21. BREAK AWAY LOCKS ARE USED ON THESE VALVES AND NOT HARD CORE LOCKS.

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

QUALITY RELATED
NON SAFETY RELATED
SAFETY RELATED
SAR FIG. 9.5-1e

Constellation Energy Group

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

PIPING & INSTRUMENTATION DIAGRAM
FIRE PROTECTION - WATER

SCALE NONE | DRAWING NO LR-43E-0

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

...\LR-043_e.DGN 5/14/2004 1:11:21 PM

170