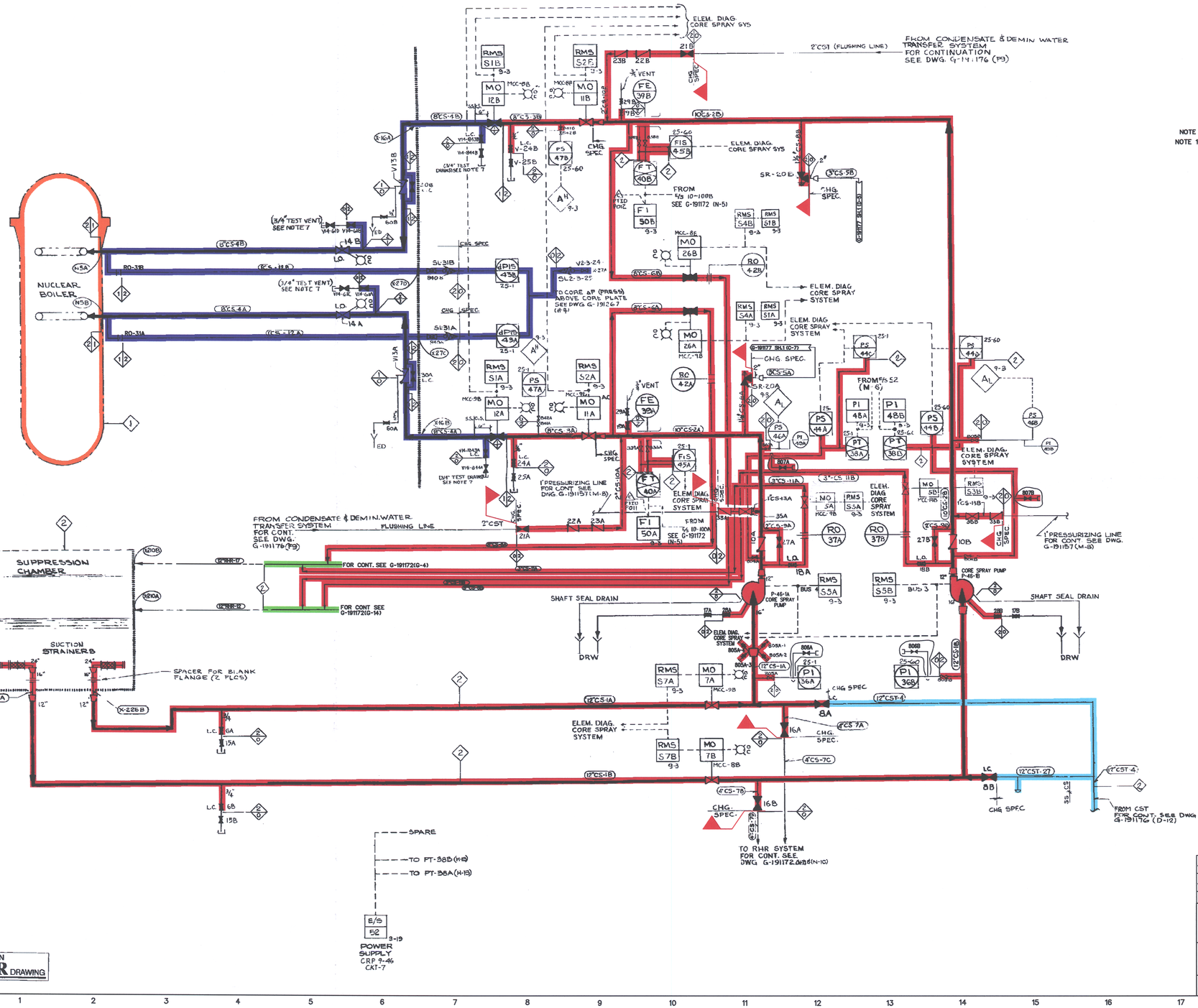
G-191168



PIPING LINE LIST							
LINE NO.	LINE SIZES	PIPE SCH	PIPE MAT'L	DESIGN PRESS. PSIG	DESIGN TEMP °F	SEISMIC SPEC PART NO.	LOC'N
CS-1A,1B	12	STD	CS-1	150	185	1-2	J-14 K-14
CS-2A,2B	10	STD	CS-2	450	185	1.2	H-14 I-14
CS-3A,3B	8	80	CS5	1250	575	1.1	G-13 J-13
CS-4A,4B	8	100	SEE NOTE 8	1250	575	1.1	E-14 F-14
CS-5A,5B	3	STD	CS-1	150	175	1.7	D-13 D-14
CS-6A,6B	8	STD	CS-2	450	185	1.2	L-13 L-14
CS-7A,7B	4	STD	CS-2	450	185	1.2	L-13 L-14
25-RADIUSETTE ELBOWS,7A&B	2 1/2	80	CS-2	450	175	1.2	SEE CS-7
CS-11A,11B	3"	80	CS-2	450	185	1.2	H-12
CS-12A,12B	1"	80	SS-6	1250	575	1.1	E-5
CS-7C,7D	4"	STD	CS-2	450	185	1.6	L-13 L-12
CS	2" SCHL	80	CS-1,2	150 400	175 —	—	—
CS	2" SCHL	160	CS-5	1250	575	—	—
NOTE 9 CST-4	12	STD	CS-1	150	175 185	1.6	L-15
NOTE 10 CST-27	12	STD	CS-1	150	175 185	1.6	L-13
CST	2" & SML	80	CS-1	150	175	1.6	—

LEGEND

△ - ERFIS COMPUTER DATA SYSTEM

NOTES:

1. UNLESS OTHERWISE NOTED ALL VALVES, INSTRUMENT NUMBERS AND SPECIALTIES TO BE PREFIXED BY SYSTEM NUMBER 14 OR BY OPS CODE CS

   FOR EXAMPLE: FOR VALVE V-23
   ACTUAL TAGGING SHALL BE CS(14)-23
   SYSTEM
   VALVE DESIGNATION NO.
   FOR INSTRUMENT - PI-88
   ACTUAL TAGGING SHALL BE PI-CS(14)-88
   TYPE OF INSTRUMENT
   SYSTEM
   INSTRUMENT DESIGNATION NO.
   FOR SPECIALTY - ST-3
   ACTUAL TAGGING SHALL BE ST-CS(14)-3
   TYPE OF SPECIALTY
   SYSTEM
   SPECIALTY IDENTIFICATION NO.
2. UNLESS OTHERWISE NOTED ALL BRANCH CONNS FOR DRAINS, VENTS AND TEST SHALL BE OF SAME MATERIAL & SPECIFICATION AS THE HEADER UP TO AND INCLUDING SECOND SHUT-OFF VALVE.
3. UNLESS OTHERWISE NOTED ALL OPEN DRAINS AND VENTS SHALL BE CS-1, 1-7 PIPING
4. FOR INSTRUMENTS WITHOUT RACK NUMBERS SEE INSTRUMENTATION INSTALLATION DETAILS FOR MOUNTING.
5.
6. PIPE MATERIAL FROM VESSEL TO V 23-14-1 A & B IS SA 312, TYPE 316L. REMAINING CS 4A & 4B PIPE IS SS-6.

   7 CAPS NOT REQUIRED FOR SYSTEM INTEGRITY
8. INSTRUMENTATION AND TUBING CONFIGURATION NECESSARY TO SUPPORT A CLOSED LOOP OUTSIDE CONTAINMENT HAS BEEN SEISMICALLY EVALUATED (JO 96-0179 AND MEMOS WM 2253/96 AND WM 257/96).

9. 12"-CST-4 IS DESIGNED TO 185° FROM V14-8A TO 12" CS-1A.
10. 12"-CST-27 IS DESIGNED TO 185° FROM V14-8B TO 12" CS-1B.

REFERENCE DRAWINGS:

LIST OF DRAWINGS	A-191134
VALVE & SPECIALTY LIST	B-191137
PIPING & INSTRUMENT SYMBOLS	G-191155
FLOW DIAGRAM RESIDUAL HEAT REMOVAL SYSTEM	G-191172
REACTOR CORE SPRAY PIPING PLAN	G-191206
FLOW DIAGRAM-FEEDWATER, CONDENSATE & AIR EVACUATION SYSTEMS	G-191157
FLOW DIAGRAM-CONDENSATE & DEMIN. WATER TRANSFER SYSTEM	G191176
DIAGRAM NUCLEAR BOILER VESSEL INSTR.	G 91267
FLOW DIAGRAM NUCLEAR BOILER	G-191167
FLOW DIAGRAM RADWASTE SYSTEM	G-191177
FCD CORE SPRAY SYSTEM	5920-37
G.E.-APED MASTER PARTS LIST	FCF 194X844(14-)
CS SUCTION STRAINER COMPONENTS (EDER 97-423)	5920-6693

AS BUILT
DATE 12-12-72 APPRV'D

STATE OF VERMONT — AUGUST 2, 2005 — No. 2462 — REGISTERED PROFESSIONAL ENGINEER

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

- RESIDUAL HEAT REMOVAL SYSTEM AMRM-02
- CORE SPRAY SYSTEM AMRM-03
- REACTOR CORE ISOLATION COOLING SYSTEM AMRM-06
- REACTOR VESSEL AMRM-31
- REACTOR COOLANT SYSTEM PRESSURE BOUNDARY AMRM-33

REPRODUCED FROM ORIGINAL GE DWG 148F477 R-0

REV	DESCRIPTION	BY	CHKD.	APPD.
43	REVISED PER WOSE 2002-009, JO 2002-0041	7-29-04 NL	7-29-04 WD	7-29-04 JMO
42	REVISED PER CLI ER 2002-0784-01	8-7-02 JK	8-7-02 JNV	8-8-02 WCL

Entergy Nuclear Northeast

ENTERGY NUCLEAR VERMONT YANKEE
VERNON, VERMONT

DRAWING TITLE: FLOW DI AGRAM CORE SPRAY SYSTEM

DRAWING NO. G-191168

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	11-15-05	REVISIONS				

LRA-G-191168-0

CAD FILE: LRA-G-191168_43.DGN
RASTER FILE: G-191168_43.TIF

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