G-191175

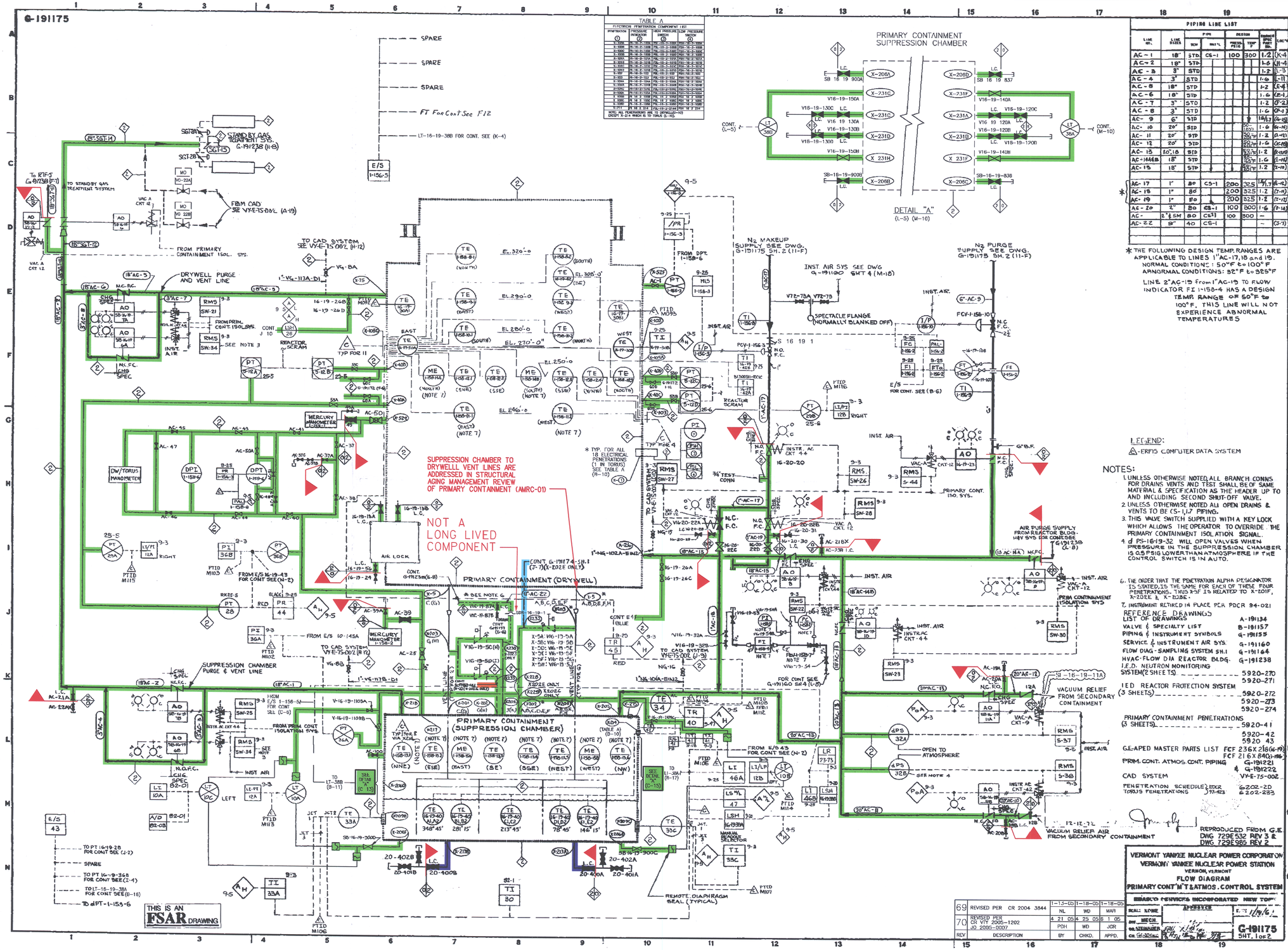

TABLE A

PENETRATION ①	PRESSURE INDICATOR ②	HIGH PRESSURE SWITCH ③	LOW PRESSURE SWITCH ④
X-206A	PI-16-2-100A	PSH-16-2-100A	PSL-16-2-100A
X-206B	PI-16-2-100B	PSH-16-2-100B	PSL-16-2-100B
X-206C	PI-16-2-100C	PSH-16-2-100C	PSL-16-2-100C
X-206D	PI-16-2-100D	PSH-16-2-100D	PSL-16-2-100D
X-231A	PI-16-2-131A	PSH-16-2-131A	PSL-16-2-131A
X-231B	PI-16-2-131B	PSH-16-2-131B	PSL-16-2-131B
X-231C	PI-16-2-131C	PSH-16-2-131C	PSL-16-2-131C
X-231D	PI-16-2-131D	PSH-16-2-131D	PSL-16-2-131D
X-231E	PI-16-2-131E	PSH-16-2-131E	PSL-16-2-131E
X-231F	PI-16-2-131F	PSH-16-2-131F	PSL-16-2-131F
X-231G	PI-16-2-131G	PSH-16-2-131G	PSL-16-2-131G
X-231H	PI-16-2-131H	PSH-16-2-131H	PSL-16-2-131H
X-231J	PI-16-2-131J	PSH-16-2-131J	PSL-16-2-131J
X-231K	PI-16-2-131K	PSH-16-2-131K	PSL-16-2-131K
X-231L	PI-16-2-131L	PSH-16-2-131L	PSL-16-2-131L
X-231M	PI-16-2-131M	PSH-16-2-131M	PSL-16-2-131M
X-231N	PI-16-2-131N	PSH-16-2-131N	PSL-16-2-131N
X-231P	PI-16-2-131P	PSH-16-2-131P	PSL-16-2-131P
X-231R	PI-16-2-131R	PSH-16-2-131R	PSL-16-2-131R
X-231S	PI-16-2-131S	PSH-16-2-131S	PSL-16-2-131S
X-231T	PI-16-2-131T	PSH-16-2-131T	PSL-16-2-131T
X-231U	PI-16-2-131U	PSH-16-2-131U	PSL-16-2-131U
X-231V	PI-16-2-131V	PSH-16-2-131V	PSL-16-2-131V
X-231W	PI-16-2-131W	PSH-16-2-131W	PSL-16-2-131W
X-231X	PI-16-2-131X	PSH-16-2-131X	PSL-16-2-131X
X-231Y	PI-16-2-131Y	PSH-16-2-131Y	PSL-16-2-131Y
X-231Z	PI-16-2-131Z	PSH-16-2-131Z	PSL-16-2-131Z
X-231AA	PI-16-2-131AA	PSH-16-2-131AA	PSL-16-2-131AA
X-231AB	PI-16-2-131AB	PSH-16-2-131AB	PSL-16-2-131AB
X-231AC	PI-16-2-131AC	PSH-16-2-131AC	PSL-16-2-131AC
X-231AD	PI-16-2-131AD	PSH-16-2-131AD	PSL-16-2-131AD
X-231AE	PI-16-2-131AE	PSH-16-2-131AE	PSL-16-2-131AE
X-231AF	PI-16-2-131AF	PSH-16-2-131AF	PSL-16-2-131AF
X-231AG	PI-16-2-131AG	PSH-16-2-131AG	PSL-16-2-131AG
X-231AH	PI-16-2-131AH	PSH-16-2-131AH	PSL-16-2-131AH

NOTE: ALL PENETRATIONS ARE TO DRYWELL(D-10) EXCEPT X-214 WHICH IS TO TORUS (L-10).

PIPING LINE LIST

LINE NO.	LINE SIZE(S)	PIPE SCH	PIPE MAT'L	DESIGN PRESS. PSIG	DESIGN TEMP °F	INSULATION SPEC NO.	LOC'N
AC-1	18"	STD	CS-1	100	300	1.2	(K-4)
AC-2	18"	STD				1.6	(H-4)
AC-3	3"	STD				1.2	(L-3)
AC-4	3"	STD				1.6	(L-11)
AC-5	18"	STD				1.2	(E-4)
AC-6	18"	STD				1.6	(E-1)
AC-7	3"	STD				1.2	(F-2)
AC-8	3"	STD				1.6	(F-1)
AC-9	6"	STD			1	1.6/1.7	(G-15)
AC-10	20"	STD			20-180	1.6	(H-10)
AC-11	20"	STD			180-325	1.2	(J-21)
AC-12	20"	STD			180-325	1.6	(C-18)
AC-13	20"&18	STD			180-325	1.2	(K-10)
AC-14&14B	18"	STD			180-325	1.6	(L-14)
AC-15	18"	STD			180-325	1.2	(L-10)
AC-17	1"	80	CS-1	200	325	1.6/1.7	(E-12)
AC-18	1"	80		200	325	1.2	(F-11)
AC-19	1"	80		200	325	1.2	(F-11)
AC-20	2"	80	CS-1	100	300	1.6	(B-16)
AC-	2"&SM	80	CS-1	100	300	–	
AC-22	8"	40	CS-1			–	(J-7)

* THE FOLLOWING DESIGN TEMP. RANGES ARE APPLICABLE TO LINES 1"AC-17,18 and 19.
NORMAL CONDITIONS: 50°F to 100°F
ABNORMAL CONDITIONS: 32°F to 325°F

LINE 2"AC-19 from 1"AC-19 TO FLOW INDICATOR FI 1-158-4 HAS A DESIGN TEMP. RANGE OF 50°F to 100°F. THIS LINE WILL NOT EXPERIENCE ABNORMAL TEMPERATURES

LEGEND:
△-ERFIS COMPUTER DATA SYSTEM

NOTES:
1. 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.
2. UNLESS OTHERWISE NOTED ALL OPEN DRAINS & VENTS TO BE CS-1,1.7 PIPING.
3. THIS VALVE SWITCH SUPPLIED WITH A KEY LOCK WHICH ALLOWS THE OPERATOR TO OVERRIDE THE PRIMARY CONTAINMENT ISOLATION SIGNAL.
4. d PS-16-19-32 WILL OPEN VALVES WHEN PRESSURE IN THE SUPPRESSION CHAMBER IS 0.5 PSIG LOWER THAN ATMOSPHERE IF THE CONTROL SWITCH IS IN AUTO.
6. THE ORDER THAT THE PENETRATION ALPHA DESIGNATOR IS STATED, IS THE SAME FOR EACH OF THESE FOUR PENETRATIONS. THUS X-5F IS RELATED TO X-201F, X-202E & X-203E.
7. INSTRUMENT RETIRED IN PLACE PER PDCR 94-021

REFERENCE DRAWINGS

LIST OF DRAWINGS	A-191134
VALVE & SPECIALTY LIST	B-191157
PIPING & INSTRUMENT SYMBOLS	G-191155
SERVICE & INSTRUMENT AIR SYS.	G-191160
FLOW DIAG-SAMPLING SYSTEM SH.1	G-191164
HVAC-FLOW DIA REACTOR BLDG.	G-191238
I.E.D. NEUTRON MONITORING SYSTEM (2 SHEETS)	5920-270, 5920-271
IED REACTOR PROTECTION SYSTEM (3 SHEETS)	5920-272, 5920-273, 5920-274
PRIMARY CONTAINMENT PENETRATIONS (3 SHEETS)	5920-41, 5920-42, 5920 43
G.E.-APED MASTER PARTS LIST	FCF 236X218(66-19), FCF 216X840(-19), G-191221 & G-191222
PRIM. CONT. ATMOS. CONT. PIPING	VY-E-75-002
CAD SYSTEM	
PENETRATION SCHEDULE & TORUS PENETRATIONS	EDCR 377-423: 6202-20, 6202-233

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

- HIGH PRESSURE COOLANT INJECTION SYSTEM AMRM-05
- REACTOR CORE ISOLATION COOLING SYSTEM AMRM-06
- PRIMARY CONTAINMENT ATMOSPHERE CONTROL AND ATMOSPHERE DILUTION SYSTEM AMRM-08
- PRIMARY CONTAINMENT PENETRATIONS AMRM-20

REPRODUCED FROM G.E. DWG 729E532 REV 3 & DWG 729E985 REV 2

REV	DESCRIPTION	BY	CHKD.	APPD.
69	REVISED PER CR 2004 3844	NL 1-13-05	WD 1-18-05	MAR 1-18-05
70	REVISED PER CR VIY 2005-1202 JO 2005-0007	PDH 4 21 05	WD 4 25 05	JGR 6 1 05

VERMONT YANKEE NUCLEAR POWER CORPORATION
VERMONT YANKEE NUCLEAR POWER STATION
VERNON, VERMONT
FLOW DIAGRAM
PRIMARY CONT'M'T & ATMOS. CONTROL SYSTEM
BECHTEL SERVICES INCORPORATED NEW YORK
SCALE: NONE | APPROVED | DATE 1/14/61
DW. MECH. | CH. STEINMAIER | CH. G-191175 | G-191175 SHT. 1 OF 2

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	8-15-05					

REVISIONS

LRA-G-191175-SH-01-0

CAD FILE: LRA-G-191175-SH-01_70.DGN
MASTER FILE: G-191175-SH-01-CALS_70.CAL

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