

NOTES (CONTINUED SEE G-19178)

5. FOR INSTRUMENTS WITHOUT TAG NUMBERS SEE INSTRUMENTATION INSTALLATION DETAILS FOR MOUNTING

6. MOTOR OPER. ISOLATION VALVES CLOSE ON ANY OF THE FOLLOWING SIGNALS:

A) HIGH TEMP FOLLOWING NON-REG HEAT EXCHANGER D) RWCUS SYS. HI FLOW

B) STAND-BY LIQUID CONTROL SVS. ACTUATION E) RWCUS SYS. HI SPACE TEMP

C) LOW REACTOR WATER LEVEL

7. FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS SEE THE COMPUTERIZED DATABASE.

8. — DENOTES ROOF VALVE

9. FOR DETAILS OF ECP TEST LOOP SEE NUCLEAR WATER & WASTE TECHNOLOGY (NWT) DRAWINGS

10. FSL-12-91A/B REMOVED BY PDCR 77-9

11.

12. THE DESIGN PRESSURE/TEMPERATURE OF 4" CUM-54 IS 1300/575°F FROM 4" CUM-54 UNTIL V12-62A, DOWN STREAM OF V12-62A THE DESIGN PRESSURE/TEMPERATURE OF 4" CUM-54 IS 1500/575°F

13. THE STRUCTURAL BOUNDARY SUPPORTING THE SAFETY CLASS PRESSURE BOUNDARY ENDS AT PIPE SUPPORT CUM-107A

14. THE STRUCTURAL BOUNDARY SUPPORTING THIS SAFETY CLASS PRESSURE BOUNDARY IS THE PUMP DISCHARGE NOZZLES AND THE PRESSURE BOUNDARY BREAK IS AT THE HEAT EXCHANGER SIDE OF THE WALL

15. THE SAFETY CLASS 3 TO 0 BREAK IS AT THE FIRST WELD PAST THE ELBOW CONTAINING THE ELBOW TAPS SEE DWG VYI CUM-PART 2 FOR LOCATION OF WELD

16.

17. CAPS NOT REQUIRED FOR SYSTEM INTEGRITY

18. 2" CUM-54A MAXIMUM OPERATING PRESSURE/TEMPERATURE 150 PSIG/150°F

TO REACTOR BLDG. CLOSED COOLING WATER FOR CONT. SEE G-19159(FB)

PIPING LINE LIST									
LINE NO.	LINE SIZE	SCH.	MAT'L.	DESIGN PRESS. PSIG	DESIGN TEMP. °F	SPCL. DESIG.	LOC. NO.	LOC. NO.	LOC. NO.
CUM-1A/1B	4"/3"	80	CS-6	1150	575	1.5R	1A	1B	1C
2A/2B	4"/3"	80	CS-6	1150	575	1.5R	2A	2B	2C
3A/3B	4"/3"	80	CS-6	1150	575	1.5R	3A	3B	3C
4A/4B	4"/3"	80	CS-6	1150	575	1.5R	4A	4B	4C
5A/5B	4"/3"	80	CS-6	1150	575	1.5R	5A	5B	5C
6A/6B	4"/3"	80	CS-6	1150	575	1.5R	6A	6B	6C
7A/7B	4"/3"	80	CS-6	1150	575	1.5R	7A	7B	7C
8A/8B	4"/3"	80	CS-6	1150	575	1.5R	8A	8B	8C
9A/9B	4"/3"	80	CS-6	1150	575	1.5R	9A	9B	9C
10A/10B	4"/3"	80	CS-6	1150	575	1.5R	10A	10B	10C
11A/11B	4"/3"	80	CS-6	1150	575	1.5R	11A	11B	11C
12A/12B	4"/3"	80	CS-6	1150	575	1.5R	12A	12B	12C
13A/13B	4"/3"	80	CS-6	1150	575	1.5R	13A	13B	13C
14A/14B	4"/3"	80	CS-6	1150	575	1.5R	14A	14B	14C
15A/15B	4"/3"	80	CS-6	1150	575	1.5R	15A	15B	15C
16A/16B	4"/3"	80	CS-6	1150	575	1.5R	16A	16B	16C
17A/17B	4"/3"	80	CS-6	1150	575	1.5R	17A	17B	17C
18A/18B	4"/3"	80	CS-6	1150	575	1.5R	18A	18B	18C
19A/19B	4"/3"	80	CS-6	1150	575	1.5R	19A	19B	19C
20A/20B	4"/3"	80	CS-6	1150	575	1.5R	20A	20B	20C
21A/21B	4"/3"	80	CS-6	1150	575	1.5R	21A	21B	21C
22A/22B	4"/3"	80	CS-6	1150	575	1.5R	22A	22B	22C
23A/23B	4"/3"	80	CS-6	1150	575	1.5R	23A	23B	23C
24A/24B	4"/3"	80	CS-6	1150	575	1.5R	24A	24B	24C
25A/25B	4"/3"	80	CS-6	1150	575	1.5R	25A	25B	25C
26A/26B	4"/3"	80	CS-6	1150	575	1.5R	26A	26B	26C
27A/27B	4"/3"	80	CS-6	1150	575	1.5R	27A	27B	27C
28A/28B	4"/3"	80	CS-6	1150	575	1.5R	28A	28B	28C
29A/29B	4"/3"	80	CS-6	1150	575	1.5R	29A	29B	29C
30A/30B	4"/3"	80	CS-6	1150	575	1.5R	30A	30B	30C
31A/31B	4"/3"	80	CS-6	1150	575	1.5R	31A	31B	31C
32A/32B	4"/3"	80	CS-6	1150	575	1.5R	32A	32B	32C
33A/33B	4"/3"	80	CS-6	1150	575	1.5R	33A	33B	33C
34A/34B	4"/3"	80	CS-6	1150	575	1.5R	34A	34B	34C
35A/35B	4"/3"	80	CS-6	1150	575	1.5R	35A	35B	35C
36A/36B	4"/3"	80	CS-6	1150	575	1.5R	36A	36B	36C
37A/37B	4"/3"	80	CS-6	1150	575	1.5R	37A	37B	37C
38A/38B	4"/3"	80	CS-6	1150	575	1.5R	38A	38B	38C
39A/39B	4"/3"	80	CS-6	1150	575	1.5R	39A	39B	39C
40A/40B	4"/3"	80	CS-6	1150	575	1.5R	40A	40B	40C
41A/41B	4"/3"	80	CS-6	1150	575	1.5R	41A	41B	41C
42A/42B	4"/3"	80	CS-6	1150	575	1.5R	42A	42B	42C
43A/43B	4"/3"	80	CS-6	1150	575	1.5R	43A	43B	43C
44A/44B	4"/3"	80	CS-6	1150	575	1.5R	44A	44B	44C
45A/45B	4"/3"	80	CS-6	1150	575	1.5R	45A	45B	45C
46A/46B	4"/3"	80	CS-6	1150	575	1.5R	46A	46B	46C
47A/47B	4"/3"	80	CS-6	1150	575	1.5R	47A	47B	47C
48A/48B	4"/3"	80	CS-6	1150	575	1.5R	48A	48B	48C
49A/49B	4"/3"	80	CS-6	1150	575	1.5R	49A	49B	49C
50A/50B	4"/3"	80	CS-6	1150	575	1.5R	50A	50B	50C
51A/51B	4"/3"	80	CS-6	1150	575	1.5R	51A	51B	51C
52A/52B	4"/3"	80	CS-6	1150	575	1.5R	52A	52B	52C
53A/53B	4"/3"	80	CS-6	1150	575	1.5R	53A	53B	53C
54A/54B	4"/3"	80	CS-6	1150	575	1.5R	54A	54B	54C
55A/55B	4"/3"	80	CS-6	1150	575	1.5R	55A	55B	55C
56A/56B	4"/3"	80	CS-6	1150	575	1.5R	56A	56B	56C
57A/57B	4"/3"	80	CS-6	1150	575	1.5R	57A	57B	57C
58A/58B	4"/3"	80	CS-6	1150	575	1.5R	58A	58B	58C
59A/59B	4"/3"	80	CS-6	1150	575	1.5R	59A	59B	59C
60A/60B	4"/3"	80	CS-6	1150	575	1.5R	60A	60B	60C
61A/61B	4"/3"	80	CS-6	1150	575	1.5R	61A	61B	61C
62A/62B	4"/3"	80	CS-6	1150	575	1.5R	62A	62B	62C
63A/63B	4"/3"	80	CS-6	1150	575	1.5R	63A	63B	63C
64A/64B	4"/3"	80	CS-6	1150	575	1.5R	64A	64B	64C
65A/65B	4"/3"	80	CS-6	1150	575	1.5R	65A	65B	65C
66A/66B	4"/3"	80	CS-6	1150	575	1.5R	66A	66B	66C
67A/67B	4"/3"	80	CS-6	1150	575	1.5R	67A	67B	67C
68A/68B	4"/3"	80	CS-6	1150	575	1.5R	68A	68B	68C
69A/69B	4"/3"	80	CS-6	1150	575	1.5R	69A	69B	69C
70A/70B	4"/3"	80	CS-6	1150	575	1.5R	70A	70B	70C
71A/71B	4"/3"	80	CS-6	1150	575	1.5R	71A	71B	71C
72A/72B	4"/3"	80	CS-6	1150	575	1.5R	72A	72B	72C
73A/73B	4"/3"	80	CS-6	1150	575	1.5R	73A	73B	73C
74A/74B	4"/3"	80	CS-6	1150	575	1.5R	74A	74B	74C
75A/75B	4"/3"	80	CS-6	1150	575	1.5R	75A	75B	75C
76A/76B	4"/3"	80	CS-6	1150	575	1.5R	76A	76B	76C
77A/77B	4"/3"	80	CS-6	1150	575	1.5R	77A	77B	77C
78A/78B	4"/3"	80	CS-6	1150	575	1.5R	78A	78B	78C
79A/79B	4"/3"	80	CS-6	1150	575	1.5R	79A	79B	79C
80A/80B	4"/3"	80	CS-6	1150	575	1.5R	80A	80B	80C
81A/81B	4"/3"	80	CS-6	1150	575	1.5R	81A	81B	81C
82A/82B	4"/3"	80	CS-6	1150	575	1.5R	82A	82B	82C
83A/83B	4"/3"	80	CS-6	1150	575	1.5R	83A	83B	83C
84A/84B	4"/3"	80	CS-6	1150	575	1.5R	84A	84B	84C
85A/85B	4"/3"	80	CS-6	1150	575	1.5R	85A	85B	85C
86A/86B	4"/3"	80	CS-6	1150	575	1.5R	86A	86B	86C
87A/87B	4"/3"	80	CS-6	1150	575	1.5R	87A	87B	87C
88A/88B	4"/3"	80	CS-6	1150	575	1.5R	88A	88B	88C
89A/89B	4"/3"	80	CS-6	1150	575	1.5R	89A	89B	89C
90A/90B	4"/3"	80	CS-6	1150	575	1.5R	90A	90B	90C
91A/91B	4"/3"	80	CS-6	1150	575	1.5R	91A	91B	91C
92A/92B	4"/3"	80	CS-6	1150	575	1.5R	92A	92B	92C
93A/93B	4"/3"	80	CS-6	1150	575	1.5R	93A	93B	93C
94A/94B	4"/3"	80	CS-6	1150	575	1.5R	94A	94B	94C
95A/95B	4"/3"	80	CS-6	1150	575	1.5R	95A	95B	95C
96A/96B	4"/3"	80	CS-6	1150	575	1.5R	96A	96B	96C
97A/97B	4"/3"	80	CS-6	1150	575	1.5R	97A	97B	97C
98A/98B	4"/3"	80	CS-6	1150	575	1.5R	98A	98B	98C
99A/99B	4"/3"	80	CS-6	1150	575	1.5R	99A	99B	99C
100A/100B	4"/3"	80	CS-6	1150	575	1.5R	100A	100B	100C

NOTES

1. UNLESS OTHERWISE NOTED ALL VALVES, INSTRUMENT NUMBERS AND SPECIALTIES TO BE PREFIXED BY SYSTEM NO. 12. FOR EXAMPLE: FOR VALVE ACTUAL TAGGING SHALL BE V12-74 SYSTEM NO. 12. FOR INSTRUMENT ACTUAL TAGGING SHALL BE P12-95 TYPE OF INSTRUMENT SYSTEM NO. INSTRUMENT DESIGNATION NO. FOR SPECIALTY 55-55 ACTUAL TAGGING SHALL BE 55-1255 TYPE OF SPECIALTY SYSTEM NO. SPECIALTY DESIGNATION NO.

2. UNLESS OTHERWISE NOTED ALL BRANCH CONNS FOR DRAINING VENTS AND TEST SHALL BE OF SAME MATERIAL & SPECIFICATION AS THE HEADER UP TO AND INCLUDING SECOND SHUT-OFF VALVE

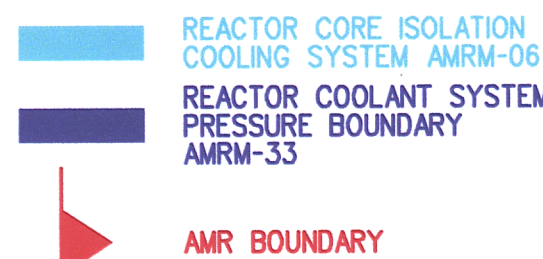
3. UNLESS OTHERWISE NOTED ALL OPEN DRAINS AND VENTS SHALL BE 05-1.17 PIPING

4. * DENOTES EQUIPMENT BY OTHERS

(FOR CONTINUATION OF NOTES SEE G-19178)

REFERENCE DRAWINGS	
PIPING & INSTRUMENT SYMBOLS	G-19155
FLOW DIAGRAM - SERVICE & COOLING	G-19159
WATER SYSTEMS	G-19167
FLOW DIAGRAM - NUCLEAR BOILER	G-19174
FLOW DIAGRAM - REACTOR CORE ISOLATION COOLING SYSTEM	G-19181
REACTOR WATER CLEAN-UP SYSTEM	G-19186
PIPING PLAN	G-19177
FLOW DIAGRAM - RADIATION SYSTEM	G-19176
FLOW DIAGRAM - CONDENSATE & DEMIN WATER TRANSFER SYSTEM	G-19160
FLOW DIAGRAM - SERVICE & INSTRUMENT AIR SYSTEMS	G-19165
GE-APSD MASTER PARTS LIST	FCF 19165/4072, FCF 728294072
NWT-ECP TEST - FLOW DIAGRAM	7608717
NWT-ECP TEST LOOP PIPING	760 C/18

4.0	REVISED PER DOW 2004-014, 4-13-04		
	WD 03-5250-000	NL	
4.0	REVISED PER NM 2001-043, 8-4-03	8-4-03	8-5-03
	WD 2003-0015	NL	WD BJ
REV	DESCRIPTION	BY	CHKD. APPD.
	ENTERGY NUCLEAR VERMONT YANKEE		
	VERNON, VERMONT		
DRAWING TITLE	FLOW DIAGRAM REACTOR WATER CLEAN-UP SYSTEM		
DRAWING NO.	G-191178 SH. 1		



0	3-29-05				
NO.	DATE	DESCRIPTION	BY	ENG	CHK APP
		REVISIONS			
		LRA-G-191178-SH-01-0			
		CAD FILE			
		LRA-G-191178-SH-01-49.DGN			
		PLOT FILE			
		G-191178-SH-01-49.TIF			

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