1-FPH-PSM-1

SECONDARY ENCLOSURE

PRIMARY ENCLOSURE

MFGR SUPPLIED 10 PIN JUMPER

MAIN CONTROL PANEL 1-FPH-CP-1 (FE-51S)

(FE-51S)

DOOR RELEASE CONTROL PANEL 1-FPH-CP-2 (THIS DWG)

MAIN CONTROL PANEL 1-FPH-CP-1 (FE-51S)

TB1

1FP76 B-C5 1 C5
1FP69 W-C6 2 C6
1FP75 B7 3 B7
B8 4 B8
B5 5 B5
1FP80 B6 6 B6
BK-73 7 73
W-72 8 72
1/C #16AWG R-E9 9 E9
1FP84 M4 10 M4
H5 11 H5
H6 12 H6
13
14
1FP85 H7 15 H7
2FP27 H8 16 H8
2FP28 H9 17 H9
2FP38 H0 18 H0
K1 19 K1
K2 20 K2
K3 21 K3
2-VS-FDMP-4 2FP20 K4 22 K4
2-VS-FDMP-8 2FP21 61 23 61
2-VS-FDMP-15 2FP22 62 24 62
1-VS-FDMP-22 1FP37 A7 25 A7
A8 26 A8
B1 27 B1
B2 28 B2
1FP79 57 29 57
1FP95 58 30 58
1FP96 55 31 55
1FP419 59 32 59
77 33 77
94 34 94
23 35 23
AG 36 AG
Z3 37 Z3
Z4 38 Z4
80 39 80
81 40 81
82 41 82
83 42 83
43
44
45
SHLD 46
47
48
49
AE 50 AE
AF 51 AF
SP 52

1-FPH-BATT-1

SP
AA
AF
AE
AB
1FP87
1FP88
MAIN CONTROL PANEL 1-FPH-CP-1 (FE-51S)
12 V 40 AH EACH

TB1 1 2 3 4 5 6

ETL CUTOUT UNIT 2
TIME LIMIT
TL-30U
BLANK SPACE
BLANK SPACE
BLANK SPACE
PS-35
MNT + -

23 Z1 P8
77 P5 P4
H7 N4 P8 N2 H8 59 94 N3 55 P7 P6 P5
C5 C6 B8 B7

72 N2 E9
UNIT 1 DAMPER CLOSURE
N3 P7 P4
73 Z2
TB-2
UNIT 2 DAMPER CLOSURE

AG AE N7 H5 AF N6 H6 — N4 57 58
P6 P2 N7 H9 N6 N8 H0 — 61 62
P2 P3 N9 P1 N8 N0 K2 — N5 A7 A8
P3 P1 K3 N0 K4 — N5 B1 B2

74
TL-30U TL-30U RM-30U RM-30U BE-35 P2 U1 BE-35 P2 U1 P2
BC-35
TB1 P1
Z3 Z4 Z1 Z2 80 81 M4 82 83 30 B6 B5 31

HALON POWER SUPPLY MODULE
TURBINE BLDG

MFRR SUPPLIED 10 PIN JUMPER TO CP 35 P2 MAIN CONTROL PANEL 1-FPH-CP-1(FE-51S)

2FP410
1FP417
80 81
82 83

1-SOV-FP-460 12VDC
SP 1FP418 SP
1-SOV-FP-463 12VDC

2-SOV-FP-467 12VDC
SP 2FP411 SP
2-SOV-FP-466 12VDC

1-FPH-CP-2

X2 1 2 3 4 5 6 7 8 9
3 4 5 6 NC 24 V DC
55 59
2FP56 LIGHTING PNL 2S12 BKR6
2FP57
1FP79 POWER SUPPLY MODULE 1-FPH-PSM-1 (THIS DWG)
2FP65

DOOR RELEASE CONTROL PNL

1-FPH-DRM-1
1 2 3 4
DOOR RELEASE MODULE

2-FPH-PB-3
DOOR RELEASE PUSHBUTTON

1-FPH-AP-1

MTD ON DOOR

L_1 L_2 L_3
56 F1 33 F2 32 60 F2
AR_1 AR_2 AR_3
F3 F4 E5 E6 F3 E1 F4 E8

1-FPH-PB-2 E1 E2
2-FPH-PB-2 E3 E4

32 33 56 F2 60 E1 E2 E3 E4 E5 E6 E7 E8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
5.6KΩ
BOTTOM OF PNL

NOTE WIRING SHOWN LOOKING "THROUGH" DOOR

2FP37 1FP48 1FP39 2FP24 1AN980A
HALON CONTROL PANEL 1-FPH-CP-1 (FE-51S)
HALON RELEASE PUSHBUTTONS (FE-51S)
ANN-YSP (11548-FE-76N)

CONTROL/ANNUNCIATOR PANEL
CONTROL ROOM

D-03

VIRGINIA POWER
NORTH CAROLINA POWER
NUCLEAR ENGINEERING SERVICES
RICHMOND, VIRGINIA

WIRING DIAGRAM
EMERGENCY SWITCHGEAR ROOM
HALON SYSTEM
SURRY POWER STATION - UNIT 1

REV	DATE	DSGN	CHKD	ENGR	APPD
8					
	- -99				

8 REVISED PER DC 97-032.

DSGN EES
CHKD SDW
ENGR
APPD
CAD NO: C:\usr\dgn\51THYBy01
DRAWING NO: 11448-FE-51T REV 8
SCALE: NONE
UNLESS OTHERWISE NOTED SH 1 OF 1

PC=SEF & SP1

VERIFY print 24 hrs after 8:32:00 AM05/06/2004

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PRIOR TO USING FOR DESIGN WORK CHECK DMIS FOR WORK PENDING