

SWITCH AND LAMP TABULATION						
FUNCTION	SWITCH DESIG	INT. LAMP	RTG. LDC.	LOCATION	SHEET	
OFF GAS POST-TREAT PURGE	S2	X	-	1H13-P603	7	
CONTAINMENT VENT EXH CHAN SEL	S4	-	-	1H13-P600	13	
CONTAINMENT CHAN SEL	S5	-	-	1H13-P600	14	
OFF GAS PRE-TREAT PURGE	S6	X	-	1H13-P600	8	

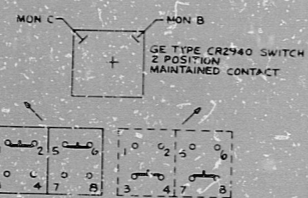
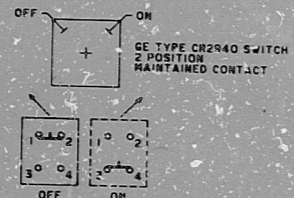
PANEL 1H13-P604	
OFF GAS POST-TREAT "A" EMER SVCE WTR LOOP "A"	OFF GAS POST-TREAT "B" TRIP & EMER SVCE WTR LOOP "B"
TRIP AUX. CARBON BED	Z11
TRIP AUX. CARBON BED	Z12
OFF GAS PRE-TREAT	"B"

INSTRUMENT LOCATIONS

1H13-P669	1H13-P670	1H13-P671	1H13-P672
MN ST LINE "A" CONT. VENT EXH "A"	MN ST LINE "B" CONT. VENT EXH "B"	MN ST LINE "C" CONT. VENT EXH "C"	MN ST LINE "D" CONT. VENT EXH "D"

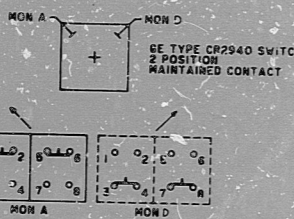
1H13-P606	
RADWASTE EFFL TO EMER SVCE WTR NUCLEAR CLOSED COOLING WATER	RADWASTE EFFL TO SEWAGE

EQUIPMENT NAME	CONNECT DESIG	MATING CONNECTORS		RECOMMENDED CABLE TYPE (SEE REF 7)	CABLE SYM
		RECEPTACLE	PLUG (ON CABLE)		
ION CHAMBER	(HW)		82-816 (145A5201P1)	RAYCHEM 10549EKC (D)	1
LOG RAD MON.	J1 UG-560/UH J2 MS3102A-10S-1P J3 AMPEN 32-24 J4 MS3102B-10S-2P		82-816 (145A5201P1) MS3102A-10S-1P AMPEN 32-24 MS3102B-10S-2P	RAYCHEM 10549EKC (D) RAYCHEM 10549EKC (D) RAYCHEM 10549EKC (D)	1 2 1
SCINTILLATION DETECTOR PRE AMP	J1 (-15V) UG-447/U (175A1002P1) J2 (0V) UG-447/U (175A1002P1) J3 (IN) UG-496/U (175A832P1) J4 (W) SH-10 UG-931/U (175A828P2)		UG-260/U (175A1002P1) UG-213/U (145A5201P4) UG-932/U (175A1001P1)	RAYCHEM CAT NO. 47220193E (C) RAYCHEM CAT NO. 75210330K (D) RAYCHEM CAT NO. 47220193E (C)	1 4 5
OH DETECTOR PHL AMP	P1 (-15V) UG-447/U (175A832P1) P2 (SIG) MIL DFC 20-238 (145A428P2) P3 (W) SH-10 UG-931/U (175A828P2)		UG-260/U (175A1002P1) AMP CAT NO. 85-756 (145A5427P2) UG-932/U (175A1001P1)	RAYCHEM CAT NO. 47220193E (C) RAYCHEM CAT NO. 75210330K (D) RAYCHEM CAT NO. 47220193E (C)	4 4 5
SENSOR CONVERTER	1TT CANON J1 6502-13-1P-111 (209A5015P1)		MS3106 (159C437P1510)	RAYCHEM CAT NO. 87120066-C1 81212006-C1	5 7
TRIP AUX UNIT	J2 MS TYPE 3100 (159C437P207PW) J3		MS TYPE 3100 (159C437P207PW) (159C437P207PX)	RAYCHEM CAT NO. 47220193E (C) RAYCHEM CAT NO. 47220193E (C)	5 3
LOG COUNT RATE METER CASE	J7 5/16 TO UG-931/U (175A828P1) J8 NO-496/U (175A832P1) J10 UG-260/U (175A1002P1)		UG-932/U (175A1001P1) UG-213/U (145A5201P4) UG-260/U (175A1002P1)	RAYCHEM CAT NO. 47220193E (C) RAYCHEM CAT NO. 75210330K (D) RAYCHEM CAT NO. 47220193E (C)	5 4 3
INDICATOR TRIP PANEL	J1 MS3102A1815 (TP)		MS3106A-18-1P	RAYCHEM CAT NO. 87120066-C1 (85-93)	6 7



SWITCH DESIG	CONT	SH NO
S2	1-2	-
	3-4	7
S6	1-2	-
	3-4	8

SWITCH DESIG	CONT	SH NO
S5	1-2	16
	3-4	17
	5-6	18
	7-8	19



SWITCH DESIG	CONT	SH NO
S4	1-2	16
	3-4	17
	5-6	18
	7-8	19

- 1H13-P600 RADIATION MONITORING RECORDER PANEL
- 1H13-P604 PROCESS RADIATION MONITORING PANEL
- 1H13-P669 DIVISION 1 NEUTRON POWER AND RADIATION INSTRUMENTATION PANEL
- 1H13-P670 DIVISION 2 NEUTRON POWER AND RADIATION INSTRUMENTATION PANEL
- 1H13-P671 DIVISION 3 NEUTRON POWER AND RADIATION INSTRUMENTATION PANEL
- 1H13-P672 DIVISION 4 NEUTRON POWER AND RADIATION INSTRUMENTATION PANEL
- 1H13-P668 COMMON PROCESS RADIATION MONITORING PANEL
- 1H13-P704 PGCC TERMINAL CABINET
- 1H13-P710 PGCC TERMINAL CABINET
- 1H13-P712 PGCC TERMINAL CABINET
- 1H13-P713 PGCC TERMINAL CABINET
- 1H13-P717 PGCC TERMINAL CABINET

LEGEND

- EXTERNAL WIREMARK
- INTERNAL WIREMARK
- NUCLEAR SAFETY RELATED CLASS IE, XI, DIV NO (IE 1,2,3 OR 4)
- ASSOCIATED (TREAT AS CLASS IE) XI DIV NO (IE 1,2,3 OR 4)
- NON-SAFETY RELATED
- MATCH NUMBER SHEET NUMBER
- SWITCH CIRCLE USED ONLY WHERE TRANSMISSION CONTINUES TO ANOTHER SHEET OR LONG LAST MATCH CIRCLE USED
- XX INDICATES PGCC LINE CODE WHEN REQUIRED
- SIGNAL COMMON (ISOLATED) BUS
- POWER GROUND
- PANEL GROUND
- SPECIAL CABLE CONNECTOR PLUG CALL-OUT (SEE TABLE I SHEET 1 REF 7)

REFERENCE DOCUMENTS

- D17-4010 PROCESS RADIATION MONITORING SYSTEM DESIGN SPEC
- D17-4010 PROCESS RADIATION MONITORING SYSTEM DESIGN SPEC-DATA SHEET
- D17-1010 PROCESS RADIATION MONITORING SYSTEM IED
- D17-3050 PROCESS RADIATION MONITORING SYSTEM-INSTL DATA SH
- C71-1050 REACTOR PROTECTION SYSTEM ELEM DIAG
- S2-1080 NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM ELEM DIAG
- A62-4010 DESIGN SPEC-SPECIAL WIRE & CABLE
- C51-1080 POWER RANGE NEUTRON MON (CSIA) ELEM DIAG
- 851E917 LOG RAD MONITOR SCHEM DIAG
- 12701808 OFF GAS SAMP PNL SCHEM DIAG
- 13389055 GAS SAMPLING CONT SCHEM DIAG
- 19881136 OFF GAS VIAL SAMPLER SCHEM DIAG
- 12701764 LCRN SCHEM DIAG
- 16301927 COMB PRE-TRT SCHEM DIAG
- 13309642 INDIC TRIP UNIT ELEMENTARY DIAGRAM
- 19881143 LIQUID RACK SCHEM DIAG
- 12983612 LIQUID RACK CONN DIAG
- C5-1070 START-UP RANGE NEUTRON MON ELEMENTARY DIAGRAM
- N64-1050 OFF GAS SYSTEM ELEM DIAG
- 9200496 INDICATOR & TRIP UNIT ELEM DIAG

NOTES

- FOR UNIT 1 ONLY
- REMOVED
- SEE FIG. 1 SH 2 FOR POWER DISTRIBUTION
- SEE FIG. 2 SH 2 FOR POWER DISTRIBUTION
- SEE FIG. 3 SH 2 FOR POWER DISTRIBUTION
- SEE FIG. 4 SH 2 FOR POWER DISTRIBUTION
- ALL ITEMS EXCEPT THOSE IN 1H13-P669 THRU 1H13-P672, UNLESS OTHERWISE NOTED ARE APPROPRIATE PANEL PARTS LIST
- REFER TO CONTROL ROOM ICD FOR JUNCTION BOX INFORMATION
- HEATER (IF REQUIRED) TO BE APPROPRIATELY SIZED AND SUPPLIED BY OTHERS
- THE HIGH-HIGH/INOP RELAY USED HERE SO THAT THE INOP STATUS MAY ALSO BE ACTIVATE THE ALARM
- ALPHABETICAL WIRE MARKS ARE PREFIXED BY SUB-SYSTEM, SHEET AND LINE NO. EX: (D17A04X1)
- POTENTIAL WIRE MARKS ARE PREFIXED BY SUB-SYSTEM AND SHEET NO. EX: (D17A04X1)
- DEVICE DESIGNATIONS ARE PREFIXED BY UNIT AND SYSTEM NO. EX: (D17A04X1)
- FOR GRAPHIC STANDARDS REFER TO B-208-001
- TERMINATIONS FOR THE ANNUNCIATOR LOGIC CABINET 1H13-P630 AND ANNUNCIATOR WINDOW SEE BOP SYSTEM R6

PRC APERTURE CARD

LINE CODES: NONE THIS SHEET LAST LINE CODE USED (93)

NUCLEAR SAFETY RELATED

THE CLEVELAND ELECTRIC ILLUMINATING CO.

PERRY NUCLEAR POWER PLANT UNIT 1

ELECTRICAL-ELEMENTARY DIAGRAM

PROCESS RADIATION MONITORING SYSTEM SWITCH DEVELOPMENTS, NOTES, REFERENCES, TABLES AND LEGEND

REVISED GE REF BLOCK TO REV 3		REVISED AS PER GE DWG REV 7		ADDED NOTE IS		REVISED REFERENCE DOCUMENTS AND NOTES		REDRAWN PER G.E. REV. 1		GILBERT ASSOCIATES, INC. ENGINEERS AND CONSULTANTS		CONSTRUCTION PRELIMINARY		DATE RELEASED FOR ENGR									
REV	MADE	CHKD	APPROVALS	DATE	REV	MADE	CHKD	APPROVALS	DATE	REV	MADE	CHKD	APPROVALS	DATE	REV	MADE	CHKD	APPROVALS	DATE				
E	SLM	AM	AD	RAM	8/19/82	D	YZ	AM	DEG	RAM	6-21-79	A	UW	RAM	DEG	TFF	7-28-77	04	4549	B-208-054	D17	A01	E

ELEM DIAG D17A SW DEV NTS TBL S & LGD

82 2140328

RIDS

