



**LEGEND:**  
 \* EXTERNAL WIRE MARK (SEE NOTES 2 & 3)  
 □ MCC TERMINAL (WITH PULL OUT PROVISION)  
 ✓ INTERNAL WIRE MARK  
 △ IC61-FOO (REMOTE SHUTDOWN PANEL)  
 (D) CLASS 1E - DIVISION 1, THIS SHEET

**REFERENCE**  
 G.E. CO. DWG. B28E534CA SH.11  
 G.E. CO. DWG. 328E 239 SH.7  
 (B-211-255 SW.1)

**NOTES:**  
 1. ALL DEVICES WITHOUT LOCATION MARKS ARE LOCATED IN H.C.C.  
 2. ALPHABETICAL WIRE MARKS ARE PREFIXED BY: SUBSYSTEM NO., SHEET NO., & LINE NO. (EXAMPLE E12A2107A)  
 3. POTENTIAL WIRE MARKS ARE PREFIXED BY: SUBSYSTEM NO., & SHEET NO. (EXAMPLE E12A21X1)  
 4. DEVICE DESIGNATIONS ARE PREFIXED BY: UNIT AND SYSTEM NO. (EXAMPLE IE12-FOC4A) EXCEPT AS NOTED (SEE NOTE 8)  
 5. VALVE SWITCHES IN FULL CLOSED POSITION.  
 6. FOR GRAPHIC STANDARDS REFER TO DRAWING B-200-901.  
 7. SWITCH DEVELOPMENT FOR REMOTE SHUTDOWN TRANSFER AND CONTROL SWITCHES IC61A-56 & IC61A-532 ARE SHOWN ON DRAWING B-208-039.  
 8. THE FOLLOWING DEVICES ARE PREFIXED BY IE12A: 24A - SWITCH  
 9. LS12 CLOSED UNLESS VALVE FULL OPEN.

TYPE	LIMIT SW. CONTACT DEVELOPMENT			CONTACT LOCATION
	VALVE POSITION	A	B	
1	2			SPARE
2	3			SPARE
3	4			25
4	5			07
5	6			1229
6	7			2X07
7	8			73
8	9			SPARE
9	10			SPARE
10	11			SPARE
11	12			SPARE
12	13			SPARE
13	14			SPARE
14	15			Rel. 38319
15	16			SPARE

17 CLOSING TORQUE SWITCH INTERRUPTS CONTROL CIRCUIT IF MECHANICAL OVERLOAD OCCURS DURING CLOSING CYCLE OR FULLY CLOSED VALVE.

18 OPENING TORQUE SWITCH INTERRUPTS CONTROL CIRCUIT IF MECHANICAL OVERLOAD OCCURS DURING OPERATING CYCLE OR FULLY OPENED VALVE. (SPARE)

— CLOSED CONTACT  
 - - - OPEN CONTACT

ROTORS 3 AND 4 CAN BE SET AT VALVE POSITION FULL OPEN, FULL CLOSED OR ANY POSITION IN BETWEEN AS INDICATED BY POINTS A AND B.  
 REF: PHILA. GEAR CORP. DWG. 15-877-2790-3 REV. A

S4A/IH13-P601	CONTROL SWITCH		
	(CAM LTR) CONTACTS	NAMEPLATE (FV)	CONTACT LOCATION
OPERATOR	CLOSE	OPEN	
TR 3 1 2	X		19
TR 3 1 4		X	SPARE
BE 5 1 6	X		RG138403
B4 7 1 8		X	07
HT 9 1 10	X	X	1229
HT 11 1 12		X	SPARE

OPER & BLOC. CR2940-LTR. X - CLOSED CONTACT

KEY REMOVABLE IN RIGHT POS. - MAINT. CONTACT

REMOTE SHUTDOWN

**NUCLEAR SAFETY RELATED**

THE CLEVELAND ELECTRIC ILLUMINATING CO.  
 PERRY NUCLEAR POWER PLANT  
 ELECTRICAL-ELEMENTARY DIAGRAM

RESIDUAL HEAT REMOVAL SYSTEM  
 RHR PUMP CO2A SUCTION MOV F004A

DATE: 6/30/77  
 CONSTRUCTION: TFE  
 PRELIMINARY: [ ]  
 RELEASED FOR: ENGR.  
 GILBERT ASSOCIATES, INC.  
 ENGINEERS AND CONSULTANTS

REV	MADE	CHKD	APPROVALS	DATE	REV	MADE	CHKD	APPROVALS	DATE	REV	MADE	CHKD	APPROVALS	DATE	REV	MADE	CHKD	APPROVALS	DATE	REV	MADE	CHKD	APPROVALS	DATE	

ADDED REMOTE SHUTDOWN PANEL COMPARTMENT DESIGNATION  
 CHANGED FUSE SIZE  
 ADDED FITS INFORMATION CHANGED FUSE & HP INFORM  
 REV. S4A CONTACT DESIGNATIONS REMOVED TERM. POINT.

044549-000  
 6/30/77  
 04 4549 B-208-055 E12 A21 D  
 DRAWING NUMBER SYSTEM DN. NO. REV.

ELEM DIAG PUMP COO2A SUC MOV F004A

RIDS

8212160258

