



- LEGEND:**
- EXTERNAL WIRE MARK (SEE NOTES 2 & 3)
 - MCC TERMINAL (WITH PULL OUT PROVISION)
 - ✓ INTERNAL WIRE MARK
 - △ IH13-P601 ECCS BENCHBOARD
 - △ IH13-PT14D TERMINATION CABINET TMO11
 - △ K205B- AGASTAT GP16M
 - △ IH13-P618 DIVISION 2 AUX. RELAY PNL.
 - CONTAINMENT PENETRATION
 - ⊖ CLASS I E DIVISION 2
 - ⊖ ASSOCIATED DIV. 2

- NOTES:**
1. ALL DEVICES WITHOUT LOCATION MARKS ARE LOCATED IN U.S.C.
 2. ALPHABETICAL WIRE CARDS ARE PREFIXED BY: SUB-SYSTEM NO., SHEET NO., & LINE NO. (EXAMPLE E12A4505A)
 3. POTENTIAL WIRE MARKS ARE PREFIXED BY: SUB-SYSTEM NO. & SHEET NO. (EXAMPLE E12A45 X1)
 4. DEVICE DESIGNATIONS ARE PREFIXED BY: UNIT AND SYSTEM NO. (EXAMPLE IE12-F037A) EXCEPT AS NOTED (SEE NOTE 7)
 5. VALVE SHOWN IN FULL CLOSED POSITION.
 6. FOR GRAPHIC STANDARDS REFER TO DRAWING B-208-031.
 7. THE FOLLOWING DEVICES ARE PREFIXED BY IE12A

REFERENCE:
B-211-055 SH. 66
G.E. CO. DWG 828E534 CA SH. 13

ROTOR	LIMIT SW. CONTACT DEVELOPMENT			CONTACT LOCATION
	VALVE POSITION	A	B	
1	1			SPARE
2	2			SPARE
3	3			23
4	4			05
5	5			SPARE
6	6			SPARE
7	7			31
8	8			SPARE
9	9			SPARE
10	10			SPARE
11	11			SPARE
12	12			SPARE
13	13			SPARE
14	14			SPARE
15	15			SPARE
16	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 OPENING CYCLE OR FULLY OPENED VALVE. (SPARE)
- CLOSING CONTACT
- - - OPENING CONTACT
- ROTORS 3 AND 8 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. 15-477-2759-3 REV. A

S68B/IH13-P601		CONTROL SWITCH			
(CAM 1) CONTACTS	NAMEPLATE (EV)	CLOSE	AUTO	OPEN	CONTACT LOCATION
TF1	2	X			17
TR3	4			X	05
BF5	6	X			SPARE
BR7	8			X	SPARE

OPER. BLOCK CR2940-US203A X: CLOSED CONTACT

SPRING RETURN TO AUTO

Ⓝ NUCLEAR SAFETY RELATED

ADDED FUSE SIZES & LOCATION OF SECOND SET OF PWR FUSES PER ECD 79348-86-151				ADDED EXTRA FUSE - PER PY-CEI/GA-3921				CHANGED FUSE SIZE				ADDED FITS INFORMATION ADDED TERM CAB CHANGED HP FUSE IN CORR.				REVISED CONTACT DESIG. REMOVED TERM. POINTS				READING											
E	YK	RAM	9/16/82	D	Y2	RAM	4/15/82	C	CIS	RAM	11-19-79	B	RM	RAM	8-17-79	A	WW	RAM	8-17-79	044549-000	BZ	RAM	DELS	TFE	6/30/77	04	4549	B-208-055	E12	A45	E
REV	MADE	CHKD	APPROVALS	DATE	REV	MADE	CHKD	APPROVALS	DATE	REV	MADE	CHKD	APPROVALS	DATE	REV	MADE	CHKD	APPROVALS	DATE	WORK ORDER	MADE	CHKD	DR. APP.	ENG. APP.	DATE	DRAWING NUMBER	SYSTEM	SH. NO.	REV.		

THE CLEVELAND ELECTRIC ILLUMINATING CO.
PERRY NUCLEAR POWER PLANT UNIT 1
ELECTRICAL-ELEMENTARY DIAGRAM
RESIDUAL HEAT REMOVAL SYSTEM SHUTDOWN COOLING UPPER POOL MOV F037B (THROTTLE VALVE)

GILBERT ASSOCIATES, INC. ENGINEERS AND CONSULTANTS

FILE M DIAG IE12-F037B

REV D WCR 1299

RIDS

8212160349

