



- LEGEND:**
- EXTERNAL WIRE MARK (SEE NOTES 2 & 3)
  - MCC TERMINAL (WITH PULL OUT PROVISION)
  - ✓ INTERNAL WIRE MARK
  - △ 1H13-P601 ECCS BENCHBOARD
  - △ 1H13-P714D TERMINATION CABINET TM042
  - △ K222-AGASTAT GP1GM
  - △ 1H13-P618 DIVISION 2, AUX RELAY PANEL
  - ⊙ CLASS 1E DIVISION 2, THIS SHEET.

- NOTES:**
1. ALL DEVICES WITHOUT LOCATION MARKS ARE LOCATED IN H.G.C.
  2. ALPHABETICAL WIRE MARKS ARE PREFIXED BY: SUB-SYSTEM NO., SHEET NO., & LINE NO. (EXAMPLE: E12A3705A)
  3. POTENTIAL WIRE MARKS ARE PREFIXED BY: SUB-SYSTEM NO. & SHEET NO. (EXAMPLE: E12A37X1)
  4. DEVICE DESIGNATIONS ARE PREFIXED BY: UNIT AND SYSTEM NO. (EXAMPLE: IE12-FO21) EXCEPT AS NOTED (SEE NOTE 7)
  5. VALVE SHOWN IN FULL CLOSED POSITION.
  6. FOR GRAPHIC STANDARDS REFER TO DRAWING B-208-001.
  7. THE FOLLOWING DEVICES ARE PREFIXED BY IE12A:

S12C - SWITCH

B-211-055 SH-12  
REFERENCE  
GE CO. DWG 828E534CA SH13

ROTOR	LIMIT SW. CONTACT DEVELOPMENT			CONTACT LOCATION
	VALVE POSITION	CONTACT DEVELOPMENT		
	FULL OPEN	A	B FULL CLOSED	
1				SPARE
2				SPARE
3				23
4				05
5				05
6				SPARE
7				21
8				SPARE
9				SPARE
10				SPARE
11				SPARE
12				SPARE
13				SPARE
14				SPARE
15				SPARE
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.
- 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. 1G-477-2759-3 REV. A

S12C/1H13-P601		CONTROL SWITCH		
(CAM 1) CONTACTS		NAMEPLATE (FV)		CONTACT LOCATION
OPERATOR		CLOSE	OPEN	
TF1	2	X		17
TR3	4		X	05
BF5	E	X		SPARE
BR7	8		X	SPARE
OPER BLOCK CR2940-Us203A		X-CLOSED CONTACT		
SPRING RETURN TO AUTO				

(D2) NUCLEAR SAFETY RELATED

THE CLEVELAND ELECTRIC ILLUMINATING CO.		PERRY NUCLEAR POWER PLANT		UNIT 1
ELECTRICAL-ELEMENTARY DIAGRAM				
RESIDUAL HEAT REMOVAL SYSTEM				
RHR "C" TEST RETURN MOV				
FO21				
(THROTTLE VALVE)				
04	1549	B-208-055	E12	A37 D
DRAWING NUMBER		SYSTEM SH. NO. REV.		

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	

ELEM DIAG IE12-FO21

64  
11  
5.8  
8.5"  
11"  
17"

64  
11  
5.8  
8.5"  
11"  
17"

RIDS

8212160306

