



**LEGEND:**  
 ○ EXTERNAL WIRE MARK (SEE NC 2 & 3)  
 □ NOTICE STARTER TERMINAL  
 ▭ INTERNAL WIRE MARK  
 ○ CLASS 1E DIVISION 1, THIS SHEET  
 IC61-P001 REMOTE SHUTDOWN PANEL AS INDICATED BY: Δ (S3)  
 IH13-P601 EMERGENCY CORE COOLING B.B.  
 IH13-P621 RCIC RELAY V.B.  
 IH22-P017 RCIC INSTRUMENTATION PANEL  
 IH13-P715A PSCG TERMINATION CABINET TMO66  
 IC61-P001C REMOTE SHUTDOWN PANEL  
 AS INDICATED BY: Δ (S53)  
**REFERENCES:**  
 G.E. CO. DWG. 020E539CA, SH. 08  
 G.E. CO. DWG. 020E239CA, SH. 08

- NOTES:**
1. ALL DEVICES WITHOUT LOCATION MARKS ARE LOCATED IN MOTOR STARTER.
  2. ALPHABETICAL WIRE MARKS ARE PREFIXED BY: SUBSYSTEM NO., SHEET NO., & LINE NO. (EXAMPLE: E51A1607A).
  3. POTENTIAL WIRE MARKS ARE PREFIXED BY: SUBSYSTEM NO., & SHEET NO. (EXAMPLE: E51A16P1).
  4. DEVICE DESIGNATIONS ARE PREFIXED BY: UNIT AND SYSTEM NO. (EXAMPLE: 1E51-F019), EXCEPT AS NOTED (SEE NOTE 8).
  5. VALVE SHOWN IN FULL CLOSED POSITION.
  6. FOR GRAPHIC STANDARDS REFER TO DRAWING 0-200-001.
  7. SWITCH DEVELOPMENT FOR REMOTE SHUTDOWN TRANSFER AND CONTROL SWITCHES IC61A-S3, IC61A-S53 ARE SHOWN ON DRAWING 0-208-039.
  8. THE FOLLOWING DEVICES ARE PREFIXED BY TESTIA:  
S9 - SWITCH

TYPE	LIMIT SW. CONTACT DEVELOPMENT			CONTACT LOCATION
	VALVE POSITION	A	B	
1	1			SPARE
	2			SPARE
	3			25
	4			07
	5			SPARE
2	6			SPARE
	7			23
	8			SPARE
	9			SPARE
3	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. (SPARE)  
 ——— CLOSED CONTACT  
 - - - - - OPEN CONTACT  
 MOTORS 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. 15-477-2759-3 REV. A

S9/IH13-P601 CONTROL SWITCH				
(CAM 1) CONTACTS	NAMEPLATE (REV)	CONTACT		LOCATION
		CLOSE	AUTO/OPEN	
TR 1	2	X		SPARE
TR 3	4		X	07
RF 5	6	X		19
BR 7	8		X	SPARE

OPER. BLOCK OR 290-05203A  
 X - CLOSED CONTACT  
 SPRING RETURN TO AUTO

REMOTE SHUTDOWN  
 ① NUCLEAR SAFETY RELATED  
 THE CLEVELAND ELECTRIC ILLUMINATING CO.  
 PERRY NUCLEAR POWER PLANT UNIT 1  
 ELECTRICAL-ELEMENTARY DIAGRAM  
 REACTOR CORE ISOLATION COOLING SYSTEM  
 MINIMUM FLOW TO SUPPRESSION POOL  
 MOV F019

7-28-77	CONSTRUCTION	TFF
	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	

DRAWING NUMBER: 041 4549/B-208-075 E51 A16 C  
 SYSTEM SH. NO. REV.

ADDED REM. SHUTDOWN PNL. COMP. DESIG. REVISED 172 CONTACTS				REVISED STARTER PER VENDOR. CHANGED FUSE & HP SIZE				ADDED FITS INFORMATION				READING	GILBERT ASSOCIATES, INC. ENGINEERS AND CONSULTANTS				PA.	044549-000	RAM	G.R.G.	DEG	TFF	7-28-77	041	4549/B-208-075	E51	A16	C		
C		Y	Z	R	M	DEG	RAM	5/14/82	B	CAG	RAM	DEG	RAM	11/26/79	A	RAM	DEG	RAM	7-31-77	044549-000	RAM	G.R.G.	DEG	TFF	7-28-77	041	4549/B-208-075	E51	A16	C

ELEM DIAG I/E51-F019

RIDS

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