



LEGEND:

- EXTERNAL WIRE MARK (SEE NOTES 2 & 3)
- MCC TERMINAL (WITH PULL OUT PROVISION)
- INTERNAL WIRE MARK
- IC61A-59 REMOTE SHUTDOWN PANEL (S37A)
- CLASS 1E - DIVISION I, THIS SHEET

REFERENCE:

- IH13-P601 ECCS BENCHBOARD
- IH13-P629 DIV. I AUX RELAY PANEL
- IH13-P715B TERMINATION CABINET TMO37
- K205A AGASTAT GP1GM
- IC61A-59 REMOTE SHUTDOWN PANEL (S37A)

NOTES:

- ALL DEVICES WITHOUT LOCATION MARKS ARE LOCATED IN M.C.C.
- ALPHABETICAL WIRE MARKS ARE PREFIXED BY: SUBSYSTEM NO., SHEET NO., & LINE NO. (EXAMPLE E12A 5407A)
- POTENTIAL WIRE MARKS ARE PREFIXED BY: SUBSYSTEM NO., & SHEET NO. (EXAMPLE E12A 54X1)
- DEVICE DESIGNATIONS ARE PREFIXED BY: UNIT AND SYSTEM NO. (EXAMPLE IE12-FO11A) EXCEPT AS NOTED (SEE NOTE 8)
- VALVE SHOWN IN FULL CLOSED POSITION.
- FOR GRAPHIC STANDARDS REFER TO DRAWING B-208-001.
- SWITCH DEVELOPMENT FOR REMOTE SHUTDOWN TRANSFER AND CONTROL SWITCHES IC61A-59 & IC61A-536 ARE SHOWN ON DRAWING B-208-029.
- THE FOLLOWING DEVICES ARE PREFIXED BY IE12A:

TYPE

R	S	LIMIT SW. CONTACT DEVELOPMENT			CONTACT LOCATION	
		VALVE POSITION				
1	2	3	4	5	6	
1	1	OPEN	A	B	FULL CLOSED	SPARE
1	2					SPARE
1	3					SPARE
1	4					SPARE
1	5					SPARE
2	6					SPARE
2	7					SPARE
2	8					SPARE
2	9					SPARE
2	10					SPARE
2	11					SPARE
2	12					SPARE
2	13					SPARE
2	14					SPARE
2	15					SPARE
2	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.

— CLOSING 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. 15-977-2790-3 REV. A

537A/IH13-P601 CONTROL SWITCH

CONTACTS	NAMEPLATE (F.V.)			CONTACT LOCATION
	CLOSE	AUTO	OPEN	
IF 1	2	X		19
TR 3	4		X	07
BF 5	6	X		SPARE
BR 7	8		X	SPARE

OPER & BLOCK CR2940 US203A X-CLOSED CONTACT

SPRING RETURN TO AUTO

REMOTE SHUTDOWN

NUCLEAR SAFETY RELATED

THE CLEVELAND ELECTRIC ILLUMINATING CO.	
PERRY NUCLEAR POWER PLANT	UNIT 1
ELECTRICAL-ELEMENTARY DIAGRAM	
RESIDUAL HEAT REMOVAL SYSTEM	
RHR HEAT EXCHANGER FLOW TO SUPPRESSION POOL MGV FC1A (THR. TYPE)	
DATE	4/30/77
CONSTRUCTION	TEF
PRELIMINARY	
DATE	RELEASD FOR
EMGR	
SILBERT ASSOCIATES, INC. ENGINEERS AND CONSULTANTS	
READING PA.	444549-000
DATE	8-17-79
REV	1
REV	2
REV	3
REV	4
REV	5
REV	6
REV	7
REV	8
REV	9
REV	10
REV	11
REV	12
REV	13
REV	14
REV	15
REV	16
REV	17
REV	18
REV	19
REV	20
REV	21
REV	22
REV	23
REV	24
REV	25
REV	26
REV	27

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

RELOCATED WIRE INSIDE CABINET
ADDED REMOTE SHUTDOWN PANEL
COMPARTMENT DESIGNATION

ADDED FITS INFORMATION
CHANGED HP & FUSE INFORM

REMOVED TERM. POINT

READING PA.

SILBERT ASSOCIATES, INC. ENGINEERS AND CONSULTANTS

444549-000

8-17-79

REV 1

REV 2

REV 3

REV 4

REV 5

REV 6

REV 7

REV 8

REV 9

REV 10

REV 11

REV 12

REV 13

REV 14

REV 15

REV 16

REV 17

REV 18

REV 19

REV 20

REV 21

REV 22

REV 23

REV 24

REV 25

REV 26

REV 27

ELEM DIAG EXCHGR TO SUPP MOV FO11A

RIDS

82L2160402

