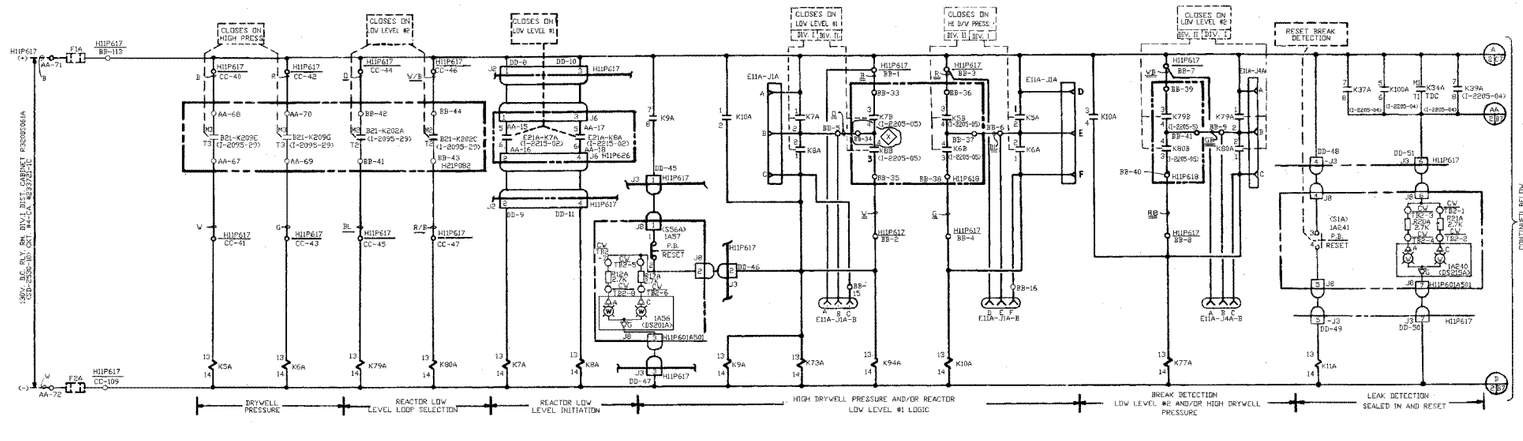


BACK LIGHTED DISPLAY

SEALED-IN — MANUAL OVERRIDE SEALED IN

TYPICAL FOR P/L ITEM
1A56 (DS201A)
1B121 (DS202A)
1A240 (DS215A)
1A51 (DS203A)

F.V. ESCUTCHEON

CONTROL TEST SW. DEVELOPMENT

NORMAL TEST

F.V. ESCUTCHEON

CONTACT HANDLE END	NO	SWITCH POSITION NORMAL	SWITCH POSITION TEST	
1ST BLOCK	1-2	X		THIS DWG.
	3-4		X	5P
2ND BLOCK	5-6	X		1-2205-13
	7-8		X	5P

G.E. TYPE CR2940 SWITCH KEYLOCK, KEY REMOVABLE IN NORMAL POSITION X-DENOTES CONTACT CLOSED TYPICAL FOR: 245A & 544A

RESET — G.E. TYPE CR2940 PUSHBUTTON TYPICAL FOR P/L ITEM #1A57 (S56A) 1A241 (S1A) 1B120 (S32A)

G.E. TYPE HFA RELAY TABULATION

13 14	1 2	3 4	5 6	7 8	9 10	11 12
K9A	INTLK. K10A THIS DWG.	INTLK. K10B 1-2205-05	SPARE	SPARE	INDIC. LITE 1-2209-03	SPARE ▲
K6A	INTLK. K10A THIS DWG.	INTLK. K10B 1-2205-06	SPARE	SPARE	INDIC. LITE 1-2209-03	SPARE ▲
K7A	INTLK. K73A THIS DWG.	INTLK. K94B 1-2205-05	SPARE	SPARE	INDIC. LITE 1-2209-03	ANNUN. 1-2205-12
K8A	INTLK. K73A THIS DWG.	INTLK. K94B 1-2205-06	SPARE	SPARE	INDIC. LITE 1-2209-03	ANNUN. 1-2205-12
K9A	INTLK. K78C THIS DWG.	INTLK. K78A THIS DWG.	INTLK. K68A 1-2205-03	SEAL-IN THIS DWG.	INTLK. S6XX 1-2201-01	SPARE
K11A	INTLK. K97A ▲ 1-2205-04	INTLK. K97A ▲ 1-2205-04	INTLK. K34A ▲ 1-2205-04	INTLK. K203A 1-2205-04	INTLK. K09A ▲ 1-2205-04	INTLK. K43A ▲ 1-2232-04
K18A	1-2205-09A 1-2201-01	SPARE	ANNUNC. 1-2205-12	SPARE	TRIP ALM. 1-2201-01 ▲	SPARE ▲
K63A	SEAL-IN THIS DWG.	INTLK. K66A THIS DWG. ▲	E11SOF015A 1-2231-20	SPARE	SPARE	SPARE
K72A	SEAL-IN THIS DWG.	INTLK. K18A THIS DWG. ▲	SPARE	MAN. OVERRIDE THIS DWG.	TRIP ALM. 1-2201-01	SPARE
K73A	INTLK. LATCH 1-2231-11	INTLK. LATCH 1-2231-11	SPARE	SPARE	SPARE	INTLK. S2XX 1-2231-03
K77A	INTLK. K23A 1-2205-04	INTLK. K25A 1-2203-04	SPARE	INTLK. K07A 1-2205-04	SPARE	SPARE
K79A	INTLK. K37A THIS DWG.	INTLK. K77B 1-2205-05	INTLK. E51A-K2 & K3 1-2235-05	INTLK. E41A-K2 & K3 1-2235-13	INDIC. LITE 1-2209-03	ANNUN. 1-2205-12 ▲
K80A	INTLK. K77A THIS DWG.	INTLK. K77B 1-2205-05	INTLK. E51A-K2 1-2235-05	INTLK. E41A-K2 1 K3 1-2235-13	INDIC. LIGHT 1-2209-03	ANNUN. 1-2205-12 ▲
K94A	INTLK. K90A 1-2205-03	INTLK. K95A 1-2205-03	TRIP RELY. PWR E32DF003 1-2231-01	TRIP RELY. PWR E32DF004 1-2231-01	E11SOF015B 1-2201-17 ▲	SPARE	SPARE

▲ — CONTACT TO BE CONVERTED TO NORMALLY CLOSED POSITION.

G.E. TYPE HGA RELAY TABULATION

5 6	1 7	3 2	8 4
K14A	SPARE	SPARE	INTLK. K58A 1-2205-63 ------
K15A	INTLK. K19A 1-2205-03	------	INTLK. K28A 1-2205-03 ------
K16A	------	INTLK. K19A 1-2205-03 ------	INTLK. K28A 1-2205-03
K78A	INTLK. K18A THIS DWG.	------	SPARE SPARE

G.E. TYPE HFA RELAY TABULATION

13 14	1 2	3 4	5 6	7 8	9 10	11 12
K19A	INTLK. K96A THIS DWG.	INTLK. K97A THIS DWG.	INTLK. E51A-K63 1-2205-63	E41A-K79 1-2205-04	INDIC. K96C 1-2205-04	INDIC. K96C 1-2209-31
K66A	INTLK. K77B 1-2205-05	INTLK. K77A 1-2205-05 ▲	INTLK. E51A-K2 1-2205-13 ▲	SPARE	SPARE	SPARE
K67A	INTLK. K77B 1-2205-06	INTLK. K77A 1-2205-06 ▲	E11SOF015B 1-2201-17 ▲	E11SOF015A 1-2201-17 ▲	SPARE	SPARE	SPARE

AGASTAT SERIES ETR TIMING RELAY TABULATION

B1 B4	T1 M1 R1	T2 M2 R2	T3 M3 R3	T4 M4 R4
K84A	SPARE SPARE	SPARE SPARE	E11SOF007A 1-2205-11 ------	------ ANN. 1-2205-12

PREFAB CABLE TABULATION

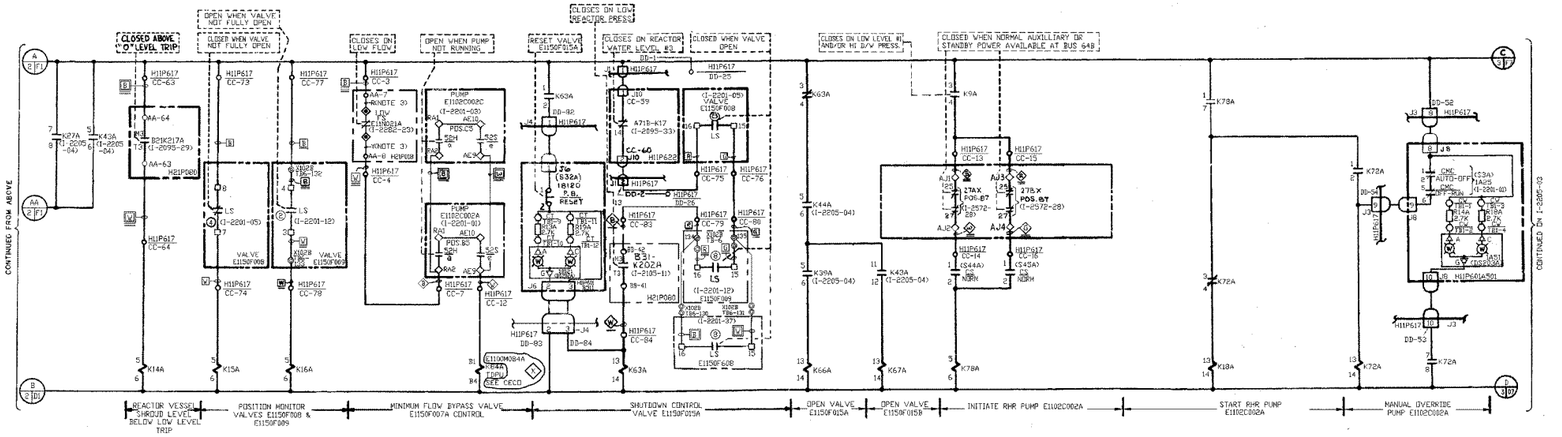
FROM	TO	CA NUMBER	REMARKS
H1P617J3	H1P690A501 J8	225110-1C	ALSO ON 1-2205-03.16
H1P617J4	H1P690B511 J6	225111-1C	& 1-2201-01, 03, 33
H1P617J1	H1P686J10	233926-1C	ALSO ON 1-2205-09
H1P617J2	H1P686J6	233903-1C	

CABLE SYMBOLS

(NO SYMBOL) 233709-1C
= 233710-1C (ALSO ON 1-2205-04)
≡ 233715-1C
□ 233734-1C
▣ 233735-1C
▤ 233706-1C
▥ 233707-1C
◇ 220033-1C
◇ 233722-1C
◇ 233703-1C
⊡ 233718-1C
⊡ 233712-1C (ALSO ON 1-2205-04)
⊡ 220053-1C

SYMBOLS

◇ - TERMINAL IN 4160 SWITCHGEAR
○ - TERMINAL IN C.O.P. FOR RESISTOR MOUNTING
▽ - BACK-LIGHT DISPLAY TERMINAL
◈ - TERMINAL AT LOCAL SWITCH



NOTE:
1. FOR ADDITIONAL NOTES & REFERENCE DWG, SEE DWG. 1-2205-01.
2. SEE DECO SPEC 3071-120 STD EJ (LATEST REV.) FOR FUSE SIZE AND TYPE.
3. WIRE LEAD SUPPLIED WITH SWITCH.

REFERENCE DRAWINGS:
1. 1-2095 SERIES, NUCLEAR BOILER PROCESS INSTRUMENT SYSTEM
2. 1-2105 SERIES, RECIRCULATING PUMP SYSTEM ELEMENTARY DIAGRAM
3. 1-2282-25 - H21P080
4. 1-2092-45 - H21P082
5. 1-2404-01, 02 - H1P690A501
6. 1-2045-47, 48, 49, 50, 51, 52 - H1P617 & H1P618
7. 1-2045-59
8. 1-2282-23 W/3 RHR CHANNEL A RACK H21P018
9. 1-2045-57 RELAY CAB. H1P682

THE INDIVIDUAL CONDUCTORS OF MULTICONDUCTOR CABLES COULD BE IDENTIFIED USING EITHER OF THE FOLLOWING TWO CODES (PER IPCEA S-19-81).

COLOR CODE	B	W	R	G	O	BL	W3	R3	GR	O3	BL3	BV
NUMERIC CODE	1	2	3	4	5	6	7	8	9	10	11	12

61721-2205-02
LATEST REVISION X

THIS IS AN OVERLAP DRAWING. REFER TO PRACTICE STANDARDS PEPS-0019 FOR INFORMATION ON THIS PROGRAM.

NUCLEAR SAFETY RELATED ★

THIS IS AN AUTOCAD PRODUCED DRAWING. CHANGES OR REVISIONS MUST BE BROUGHT TO THE ATTENTION OF THE PLANT ENGINEERING DESIGN GROUP TO ENSURE THAT CONFIGURATION CONTROL IS MAINTAINED.

X DCD'S INCORPORATED: EDP-28798 REV. #

OTHER REVISIONS: UPDATED PIS #'S TO CECO FORMAT
UPDATED DWG #'S TO ARMS FORMAT & REPLACED CONTACT NUMBERS THAT WERE INADVERTANTLY OMITTED IN REV. U

ZONE G-41

	NAME	SIGNATURE	DATE
PREPARED BY	D.STEFFKE		8/5/98
APPROVED BY			9/17/98

THIS DRAWING WAS REFORMATTED BY AUTOCAD AT REVISION "U". ALL PREVIOUS APPROVAL SIGNATURES ARE ON FILE ON MICROFILM IN DOCUMENT CONTROL.

A PORTION OF THIS DRAWING IS AFFECTED BY THE FOLLOWING.

TO	CHGNG DOCUMENT

	PREPARED BY	DATE
	CHECKED BY	DATE
	APPROVED BY	DATE
	OWNER APPROVAL	DATE

THE POSTING SYSTEM INDICATES THE ADDITION OF THE ARMS SYSTEM CODE, EITHER "ADV" OR "ARM"

INC.CODE	Detroit Edison	Fermi 2
T	TITLE: SCHEMATIC DIAGRAM RHR RELAY LOGIC "A" CIRCUIT PART 1	
	OPERATIONS CARD TITLE: S/D RHR DIV I LOGIC PART 1	
	PLANT IDENTIFICATION SYSTEM NUMBER: E1100	ARMS RECIPIENT #
	DOCUMENT TYPE CODE: DDDINC	WAS OPR FILE NO. / DATE: DATE ISSUED TO IR 9.19.98
	DRAWING NUMBER: 61721-2205-02	REV X