



Commonwealth Edison
One First National Plaza, Chicago, Illinois
Address Reply to: Post Office Box 767
Chicago, Illinois 60690

February 4, 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: LaSalle County Station Units 1 and 2
CRD Charging Water Low Pressure Scram
NRC Docket Nos. 50-373 and 50-374

Dear Mr. Denton:

The purpose of this letter is to provide the information discussed with Dr. A. Bournia and R. Kendal of NRR via telecon on December 14, 1983 with C. W. Schroeder, et. al. The P&ID M-146 Sheet 1 has been reduced but is legible enough to determine that each charging water pressure sensor has its own sensing line. The AC pair are physically located on one side of the reactor whereas the BD pair are located on the opposite side of the reactor. The RPS control channelization A₁A₂ corresponds to the AC pair physically and the B₁B₂ channelization corresponds to the BD pair physically. Thus both physical separation and electrical independence is established hemispherically outside the primary containment structures.

The electrical drawings indicate the general design layout of the RPS system (1E-2-4215AA), a schematic of the CRD charging water low-pressure trip circuitry (1E-2-4207ZB), the pressure sensor circuitry (1E-2-4215AC), and the scram circuit with reset interlock (1E-2-4215AG). This partial drawing set covers the points discussed and provides confirmation of the conclusions reached.

Note that these drawings are informational. The physical as-built drawings will be generated after completion of the installation which is in progress at this time.

To the best of my knowledge and belief the statements contained herein and in the attachment are true and correct. In some respects these statements are not based on my personal knowledge but upon information furnished by other Commonwealth Edison and contractor employees. Such information has been reviewed in accordance with Company practice and I believe it to be reliable.

8402070151 840204
PDR ADOCK 05000374
P PDR

Boo!
11

H. R. Denton

- 2 -

February 4, 1984

If there are any further questions regarding this matter,
please contact this office.

Very truly yours,

CW Schroeder 2/4/84

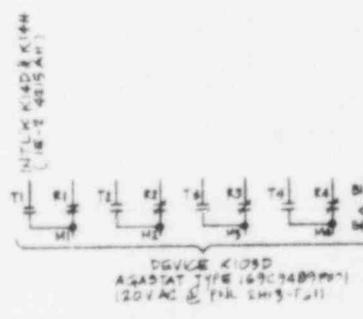
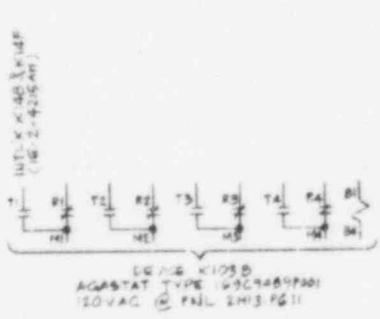
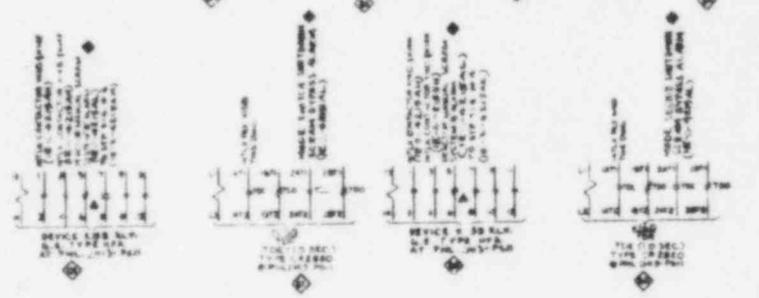
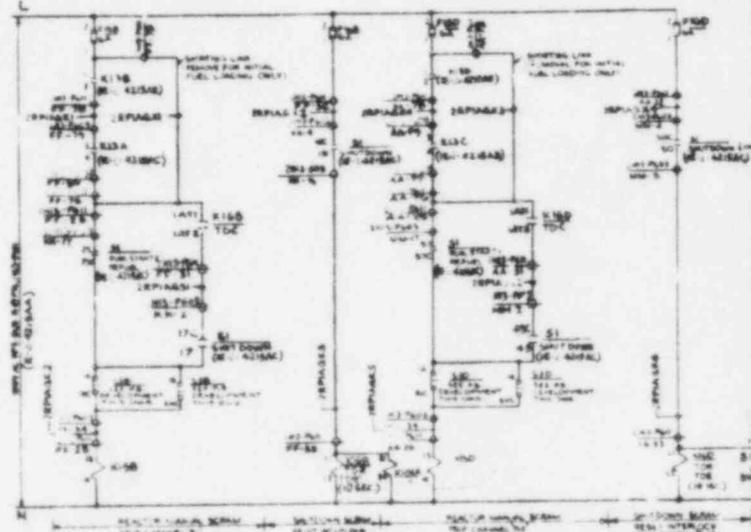
C. W. Schroeder
Nuclear Licensing Administrator

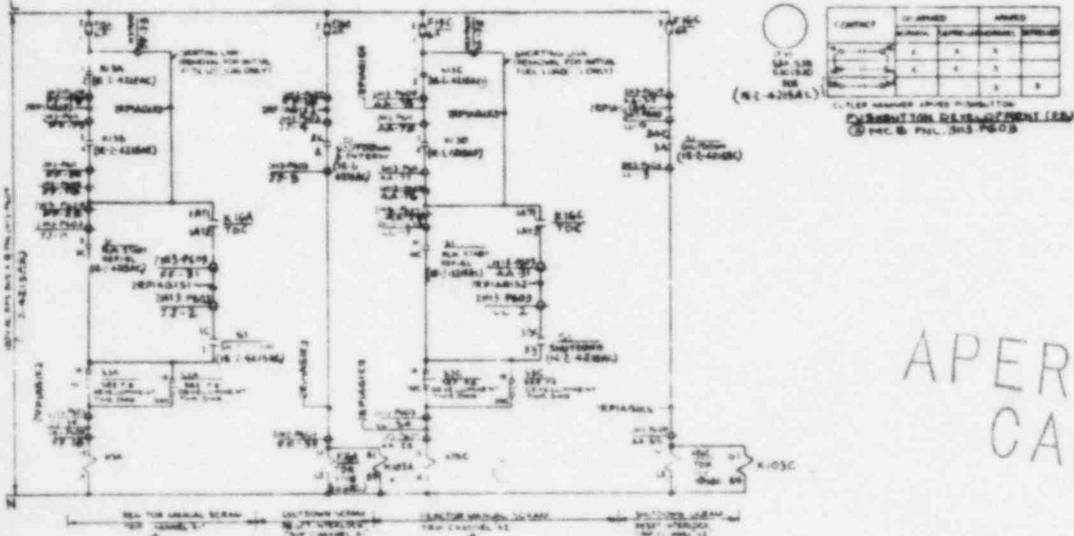
lm

cc: J. G. Keppler 1/0
NRC Resident Inspector 1/0

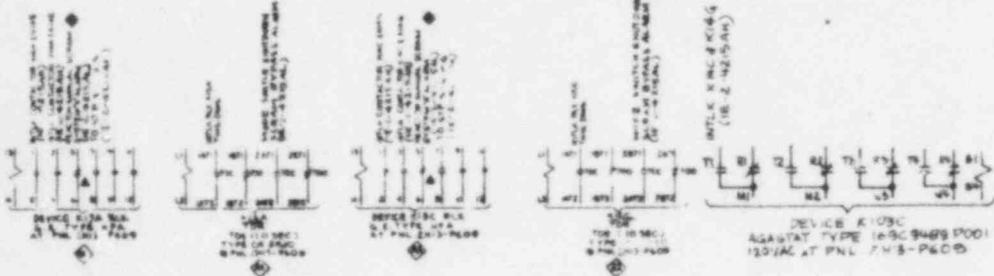
8106N

IE-2-4215AG





APERTURE CARD



SEGREGATION CODE

- ⊙ RPS. DIV. A1
- ⊙ RPS. DIV. A2
- ⊙ RPS. DIV. B1
- ⊙ RPS. DIV. B2
- ⊙ NON RPS. DIV.



FOR NOTES & SYMBOLS SEE DWG. IE-2-4215AA
REF. SEE CD. DWG. B07E IGGTD IN TRK. 4344.1.0001

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

SCHMATIC DIAGRAM
REACTOR PROTECTION SYS. RP (C71A) PT. 7

LA SALLE COUNTY STATION UNIT 2
COMMONWEALTH ENERGY CO.
CHICAGO, ILLINOIS



REV	DATE	DESCRIPTION	CHECKED	ENGR. APPROVAL
A	10-1-73	FOR UNIT		
B	10-1-73	REV FOR CONSTR		
C	10-1-73	FOR CONSTR		

DATE: 10-1-73
CHECKED: M. J. [Signature]
APPROVED: [Signature]

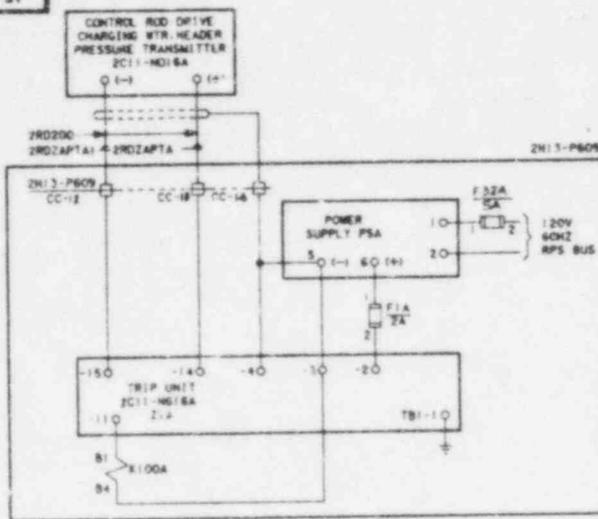
DRAWING NO. IE-2-4215AG

Also Available On Aperture Card

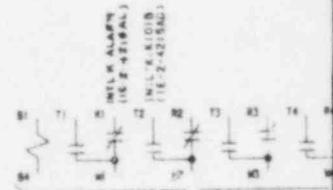
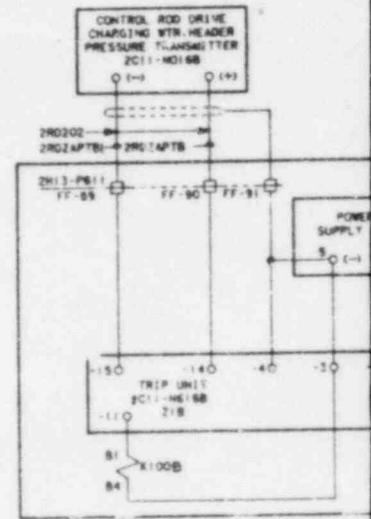
8402070151-01

1E-2-42072

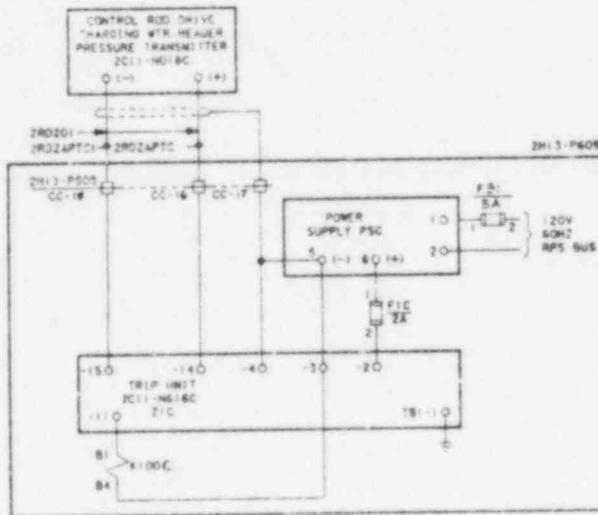
SA. EC. FILE: 1ASSD.3



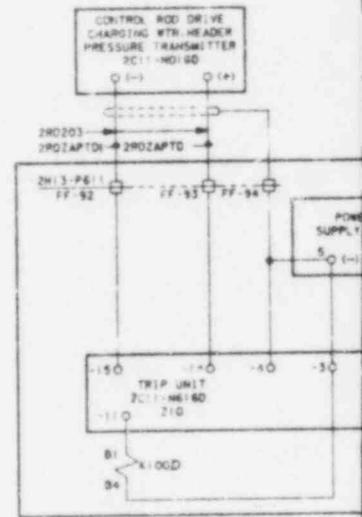
DEVICE K100A RELAY
AGASTAT 184CS258P008-24VDC
AT PANEL ZH13-P609



DEVICE K100B RELAY
AGASTAT 184CS258P008-24VDC
AT PANEL ZH13-P611

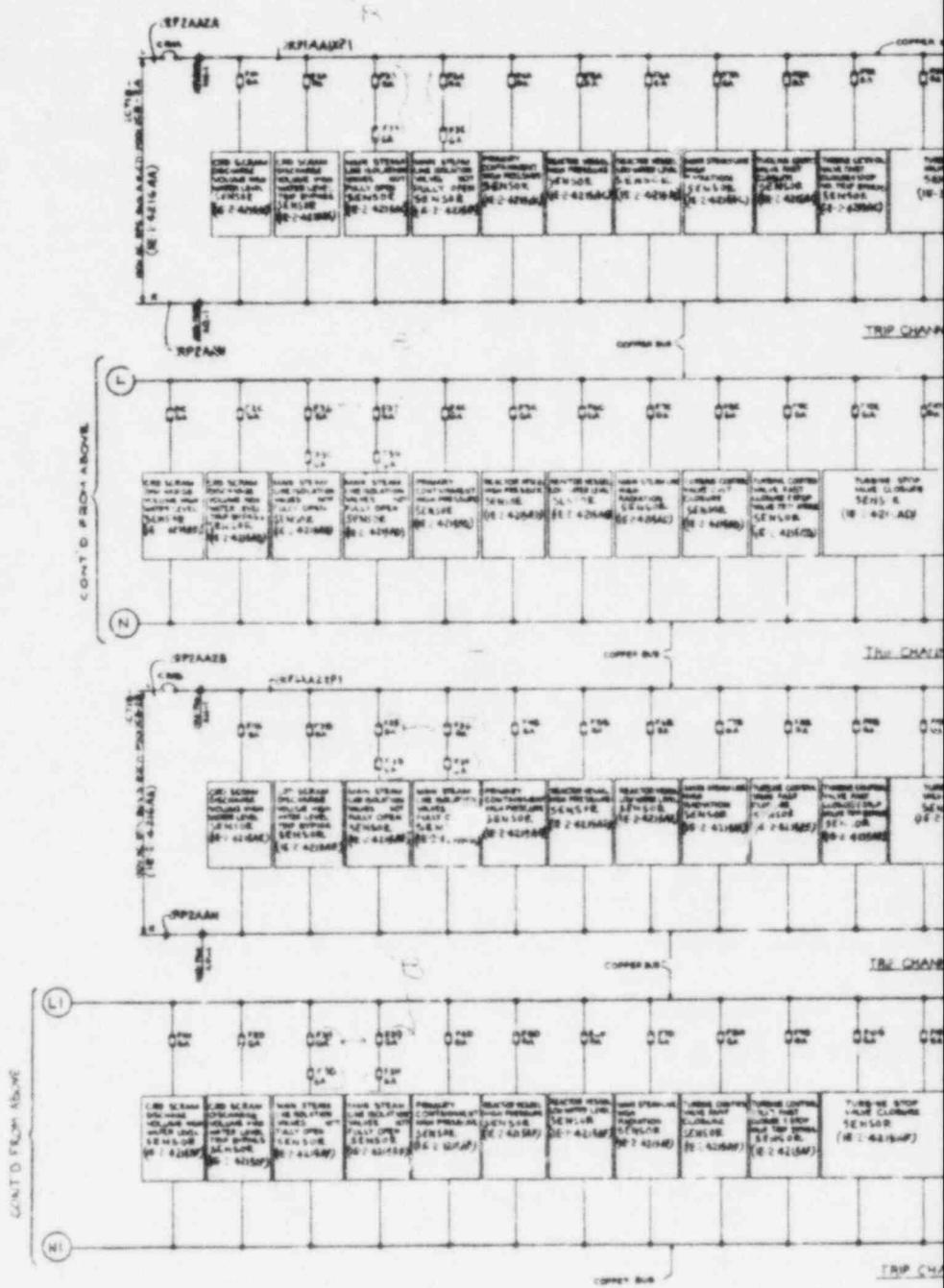


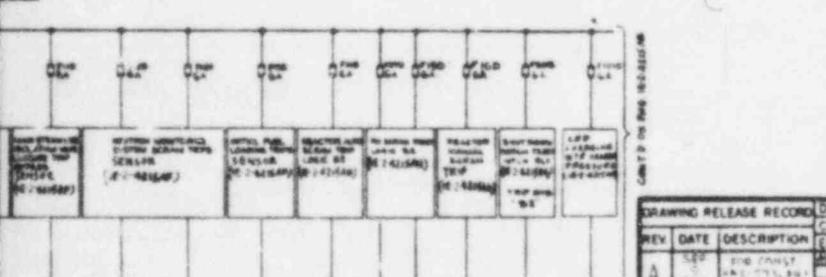
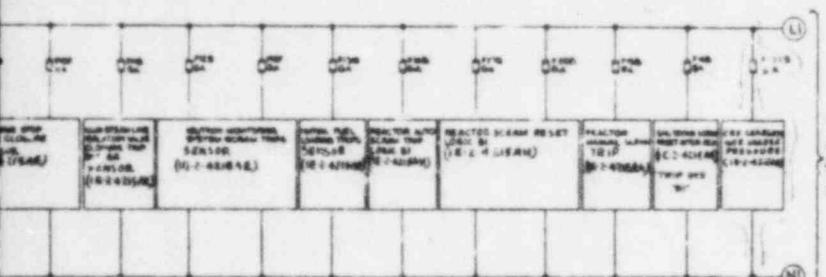
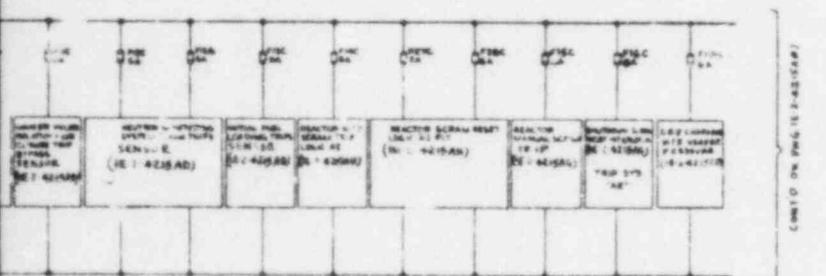
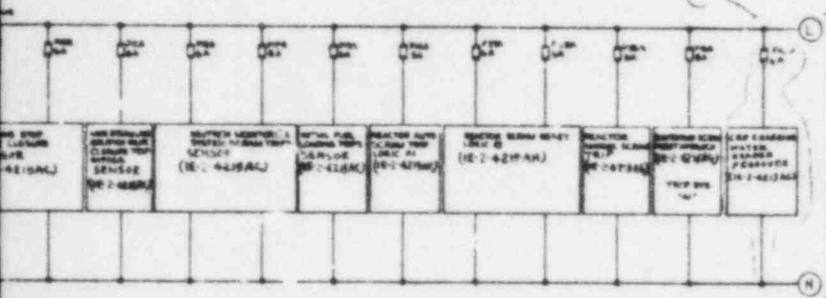
DEVICE K100C RELAY
AGASTAT 184CS258P008-24VDC
AT PANEL ZH13-P608



DEVICE K100D RELAY
AGASTAT 184CS258P008-24VDC
AT PANEL ZH13-P610

1E-24215A





- NOTES**
- FOR SYMBOLS & DEVICE NUMBERS SEE S&L STANDARDS EC-10, EC-11 & EC-15
 - UNLESS OTHERWISE NOTED ALL DEVICES SHOWN ARE PREFIXED WITH C7A
 - SYMBOLS
 - ⊞ INDICATES TERMINAL AT PANEL
 - ⌞ INDICATES JACK & PLUG
 - ⊥ INDICATES CONNECTION TO GROUND BUS
 - C) INDICATES REFERENCE DRAWING NUMBER
 - ⊠ INDICATES PENETRATION
 - FOR SECRETION LOGS USE ASSOCIATED WIRING DIAG

REFERENCE DRAWINGS

DWG NO	TITLE
1E-2-4010A-A	N/D PNL 2H10-P009
1E-2-4010A-A	N/D PNL 2H10-P011
1E-2-4010A-A	N/D PNL 2H10-P008

APERTURE CARD

Also Available On Aperture Card



REF. SECC. DWG. 807816670 DWG. REV. 3

NUCLEAR SAFETY RELATED EQUIPMENT IS SHOWN ON THIS DRAWING.

SCHMATIC DIAGRAM
REACTOR PROTECTION SYS. RP(C7A) PT. 1

LA SALLE COUNTY STATION UNIT 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

MADE BY: [Signature]
CHECKED BY: [Signature]
ENGINEER: [Signature]

SARGENT & LUNDY
ENGINEERS
CHICAGO

DRAWING NO
1E-2-4215AA

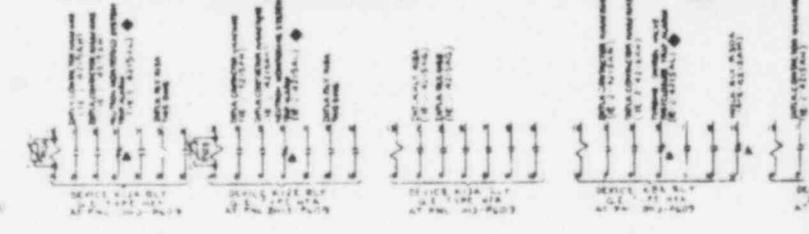
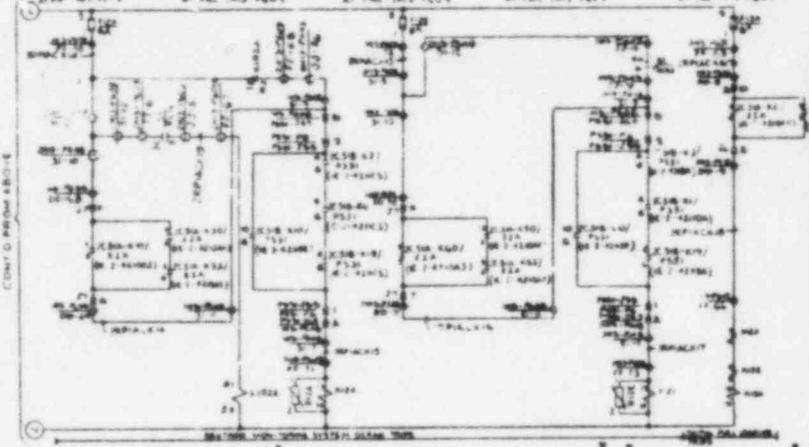
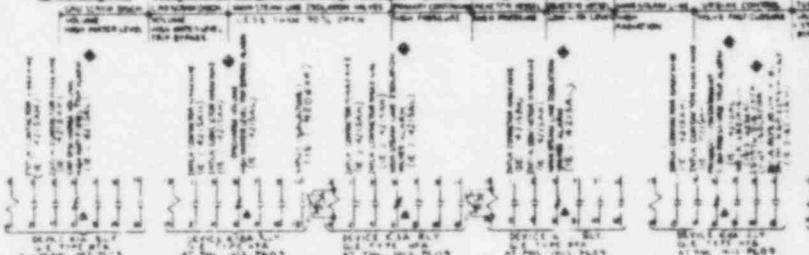
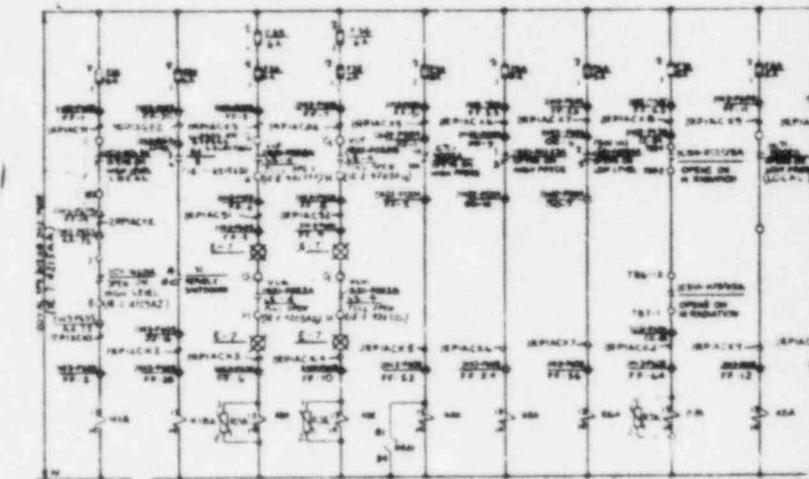
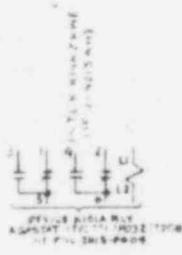
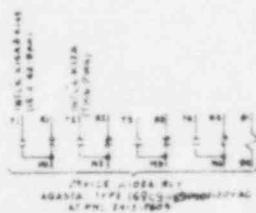
DRAWING RELEASE RECORD

REV	DATE	DESCRIPTION	DRAWN	CHECKED	ENGR. APPROVAL
A	SEP 59	REV. POINTS AND TYP. BY [Signature]	[Signature]	[Signature]	[Signature]
B	MAY 60	REV. BY [Signature]	[Signature]	[Signature]	[Signature]
C	JULY 62	REV. BY [Signature]	[Signature]	[Signature]	[Signature]

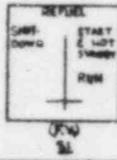
REV. REF. FOR #20240
REF. PDR #42-1550E

8402070151-03

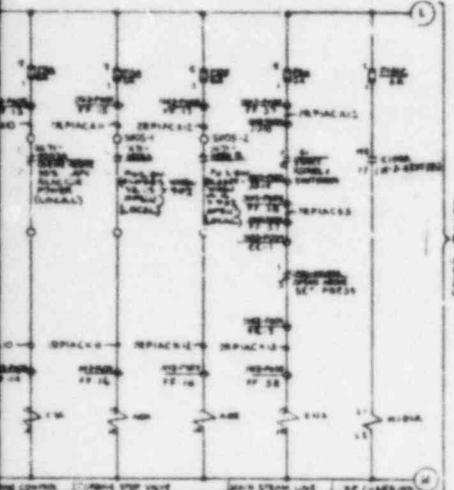
IE-24215AC



TRIP CHANNEL A1 (S)



APERTURE CARD



CONTACT	NO. POSITION	NO. POSITION					USED IN
		OUTBOARD	INTERNAL	INTERNAL	INTERNAL	INTERNAL	
1	1	X	X	X	X	X	1E-2-4215AC
2	2	X	X	X	X	X	1E-2-4215AC
3	3	X	X	X	X	X	1E-2-4215AC
4	4	X	X	X	X	X	1E-2-4215AC
5	5	X	X	X	X	X	1E-2-4215AC
6	6	X	X	X	X	X	1E-2-4215AC
7	7	X	X	X	X	X	1E-2-4215AC
8	8	X	X	X	X	X	1E-2-4215AC
9	9	X	X	X	X	X	1E-2-4215AC
10	10	X	X	X	X	X	1E-2-4215AC
11	11	X	X	X	X	X	1E-2-4215AC
12	12	X	X	X	X	X	1E-2-4215AC
13	13	X	X	X	X	X	1E-2-4215AC
14	14	X	X	X	X	X	1E-2-4215AC
15	15	X	X	X	X	X	1E-2-4215AC
16	16	X	X	X	X	X	1E-2-4215AC
17	17	X	X	X	X	X	1E-2-4215AC
18	18	X	X	X	X	X	1E-2-4215AC
19	19	X	X	X	X	X	1E-2-4215AC
20	20	X	X	X	X	X	1E-2-4215AC
21	21	X	X	X	X	X	1E-2-4215AC
22	22	X	X	X	X	X	1E-2-4215AC
23	23	X	X	X	X	X	1E-2-4215AC
24	24	X	X	X	X	X	1E-2-4215AC
25	25	X	X	X	X	X	1E-2-4215AC
26	26	X	X	X	X	X	1E-2-4215AC
27	27	X	X	X	X	X	1E-2-4215AC
28	28	X	X	X	X	X	1E-2-4215AC
29	29	X	X	X	X	X	1E-2-4215AC
30	30	X	X	X	X	X	1E-2-4215AC
31	31	X	X	X	X	X	1E-2-4215AC
32	32	X	X	X	X	X	1E-2-4215AC
33	33	X	X	X	X	X	1E-2-4215AC
34	34	X	X	X	X	X	1E-2-4215AC
35	35	X	X	X	X	X	1E-2-4215AC
36	36	X	X	X	X	X	1E-2-4215AC
37	37	X	X	X	X	X	1E-2-4215AC
38	38	X	X	X	X	X	1E-2-4215AC
39	39	X	X	X	X	X	1E-2-4215AC
40	40	X	X	X	X	X	1E-2-4215AC
41	41	X	X	X	X	X	1E-2-4215AC
42	42	X	X	X	X	X	1E-2-4215AC
43	43	X	X	X	X	X	1E-2-4215AC
44	44	X	X	X	X	X	1E-2-4215AC
45	45	X	X	X	X	X	1E-2-4215AC
46	46	X	X	X	X	X	1E-2-4215AC
47	47	X	X	X	X	X	1E-2-4215AC
48	48	X	X	X	X	X	1E-2-4215AC
49	49	X	X	X	X	X	1E-2-4215AC
50	50	X	X	X	X	X	1E-2-4215AC
51	51	X	X	X	X	X	1E-2-4215AC
52	52	X	X	X	X	X	1E-2-4215AC
53	53	X	X	X	X	X	1E-2-4215AC
54	54	X	X	X	X	X	1E-2-4215AC
55	55	X	X	X	X	X	1E-2-4215AC
56	56	X	X	X	X	X	1E-2-4215AC
57	57	X	X	X	X	X	1E-2-4215AC
58	58	X	X	X	X	X	1E-2-4215AC
59	59	X	X	X	X	X	1E-2-4215AC
60	60	X	X	X	X	X	1E-2-4215AC
61	61	X	X	X	X	X	1E-2-4215AC
62	62	X	X	X	X	X	1E-2-4215AC
63	63	X	X	X	X	X	1E-2-4215AC
64	64	X	X	X	X	X	1E-2-4215AC
65	65	X	X	X	X	X	1E-2-4215AC
66	66	X	X	X	X	X	1E-2-4215AC
67	67	X	X	X	X	X	1E-2-4215AC
68	68	X	X	X	X	X	1E-2-4215AC
69	69	X	X	X	X	X	1E-2-4215AC
70	70	X	X	X	X	X	1E-2-4215AC
71	71	X	X	X	X	X	1E-2-4215AC
72	72	X	X	X	X	X	1E-2-4215AC
73	73	X	X	X	X	X	1E-2-4215AC
74	74	X	X	X	X	X	1E-2-4215AC
75	75	X	X	X	X	X	1E-2-4215AC
76	76	X	X	X	X	X	1E-2-4215AC
77	77	X	X	X	X	X	1E-2-4215AC
78	78	X	X	X	X	X	1E-2-4215AC
79	79	X	X	X	X	X	1E-2-4215AC
80	80	X	X	X	X	X	1E-2-4215AC
81	81	X	X	X	X	X	1E-2-4215AC
82	82	X	X	X	X	X	1E-2-4215AC
83	83	X	X	X	X	X	1E-2-4215AC
84	84	X	X	X	X	X	1E-2-4215AC
85	85	X	X	X	X	X	1E-2-4215AC
86	86	X	X	X	X	X	1E-2-4215AC
87	87	X	X	X	X	X	1E-2-4215AC
88	88	X	X	X	X	X	1E-2-4215AC
89	89	X	X	X	X	X	1E-2-4215AC
90	90	X	X	X	X	X	1E-2-4215AC
91	91	X	X	X	X	X	1E-2-4215AC
92	92	X	X	X	X	X	1E-2-4215AC
93	93	X	X	X	X	X	1E-2-4215AC
94	94	X	X	X	X	X	1E-2-4215AC
95	95	X	X	X	X	X	1E-2-4215AC
96	96	X	X	X	X	X	1E-2-4215AC
97	97	X	X	X	X	X	1E-2-4215AC
98	98	X	X	X	X	X	1E-2-4215AC
99	99	X	X	X	X	X	1E-2-4215AC
100	100	X	X	X	X	X	1E-2-4215AC

Also Available On Aperture Card

- SEGREGATION CODE
- ◆ RPS DIV. A1
 - ◆ RPS DIV. A2
 - ◆ RPS DIV. B1
 - ◆ RPS DIV. B2
 - ◆ NON RPS DIV.

NOTE: CONTACT TO BE CONVERTED TO NC POSITION.

REV PER
 PDR HAZ 999
 PDI 781M
 PDI 781C
 PDR HAZ 724
 REF PDR 5082
 RES ICM 20 407
 REF PDR 415 102
 PDR HAZ 15 000 201
 PDR HAZ 82 101
 1 4 3082



REF. PDR # HAZ-795 08-1
 - FOR # 20-169
 PER FOR 20-200
 REV PER FOR 20-200
 REF FOR HAZ-82-101
 - FOR # 2 3102

FOR NOTES & SYMBOLS SEE DWG 1E-2-4215AA
 REF. GE CO. DWG. NO. 716101 SH 2 REV. 1, SH 1 REV. 7,
 SH 5 REV. 6, SH 7 REV. 10

NUCLEAR SAFETY RELATED
 EQUIPMENT IS SHOWN ON THIS DRAWING.

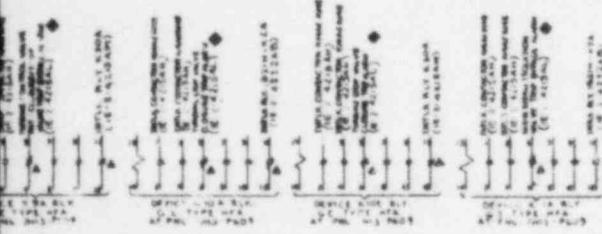
SCHEMATIC DIAGRAM
 REACTOR PROTECTION SYS. RPIC (71A) PT. 3

LA SALLE COUNTY STATION UNIT 2
 COMMONWEALTH EDISON CO.
 CHICAGO, ILLINOIS



DRAWING NO
 1E-2-4215AC

REV	DATE	DESCRIPTION	DRAWN	CHECKED	ENGR. APPROVAL
A	10-1-69	REVISED FOR PDR 795 08-1			
R	10-1-69	REVISED FOR PDR 724			
S	10-1-69	REVISED FOR PDR 5082			
T	10-1-69	REVISED FOR PDR 415 102			
U	10-1-69	REVISED FOR PDR 15 000 201			
P	10-1-69	REVISED FOR PDR 82 101			



SCRAM SENSORS)

8402070151-04