

FAULT	LIGHT POTENTIAL						P.B. #2 PDS
	1	2	3	4	5	6	
NONE	A/B	40	40	40	40	40	A/B
	A	0	0	120	40	40	B
	B	40	40	120	120	120	B
	A	60	60	0	40	40	B
	B	40	40	0	40	40	B
	A	120	120	40	40	40	B
	B	40	40	120	40	40	B

* NORMALLY ALL LIGHTS ARE EQUALLY DIM.
SEE NOTE 9
P.B. #1, 2
A = NORMAL
B = DEPRESSED

204600-OP, 1-1/2 500MCM
204600A-OP, 1-1/2 500MCM
204600A-OP, 1-1/2 500MCM
204601A,B,C-OP, 3-1/2 500MCM
204606-OP, 1-1/2 500MCM
204606A-OP, 1-1/2 500MCM
204601A,B,C-OP, 3-1/2 500MCM

200A MAIN LUGS	
1	100A-2P 100A-2P
2	60A-2P 100A-2P
3	100A-2P 100A-2P
4	100A-2P 100A-2P
5	60A-2P 60A-2P
6	60A-2P 60A-2P
7	60A-2P 60A-2P
8	60A-2P 60A-2P
9	60A-2P 60A-2P
10	60A-2P 60A-2P

R3200S067
2PC3-5
D.C. DISTR. CAB.
4160V SWGR ROOM
RADWASTE BLDG

200A MAIN LUGS	
1	60A-2P 60A-2P
2	60A-2P 60A-2P
3	60A-2P 60A-2P
4	60A-2P 60A-2P
5	60A-2P 60A-2P
6	60A-2P 60A-2P
7	60A-2P 60A-2P
8	60A-2P 60A-2P
9	60A-2P 60A-2P
10	60A-2P 60A-2P

R3200S068
2PC3-4
D.C. DISTR. CAB.
480V SWGR ROOM
RADWASTE BLDG

200A MAIN LUGS	
1	30A-2P 30A-2P
2	30A-2P 30A-2P
3	30A-2P 30A-2P
4	30A-2P 30A-2P
5	30A-2P 30A-2P
6	30A-2P 30A-2P
7	30A-2P 30A-2P
8	30A-2P 30A-2P
9	30A-2P 30A-2P
10	30A-2P 30A-2P

R3200S069
2PC3-1
D.C. DISTR. CAB.
CONTROL ROOM
RADWASTE BLDG

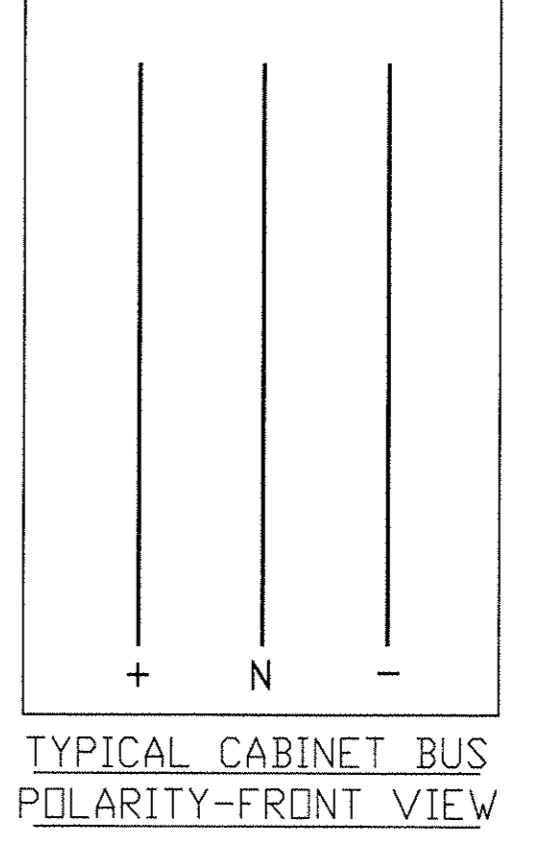
200A MAIN LUGS	
1	100A-2P 100A-2P
2	100A-2P 100A-2P
3	60A-2P 60A-2P
4	60A-2P 60A-2P
5	60A-2P 60A-2P
6	60A-2P 60A-2P
7	60A-2P 60A-2P
8	60A-2P 60A-2P
9	60A-2P 60A-2P
10	60A-2P 60A-2P

R3200S072
2PC3-13
D.C. DISTR. CAB.
CIRCULATING WATER
PUMP HOUSE

100A MAIN FUSIBLE SWITCH	
1	30A-2P 30A-2P
2	30A-2P 30A-2P
3	30A-2P 30A-2P
4	30A-2P 30A-2P
5	30A-2P 30A-2P
6	30A-2P 30A-2P
7	30A-2P 30A-2P
8	30A-2P 30A-2P
9	30A-2P 30A-2P
10	30A-2P 30A-2P

R3200S073B
2PC3-1615B
D.C. DISTR. CAB.
RHR COMPLEX

6SD721-2530-12
LATEST REVISION
AZ



TYPICAL CABINET BUS POLARITY-FRONT VIEW

R3200S028 2PC3 MAIN D.C. DISTR. CAB. RADWASTE BLDG	
1	100A-2P
2	100A-2P
3	100A-2P
4	100A-2P
5	100A-2P
6	100A-2P
7	100A-2P
8	100A-2P
9	30A-2P 30A-2P
10	30A-2P 30A-2P
11	30A-2P 30A-2P
12	30A-2P 30A-2P
13	200A-3P
14	200A-3P
15	200A-3P
16	200A-2P
17	200A-2P
18	DOUBLE 400A MAIN LUGS
19	DOUBLE 400A MAIN LUGS
20	DOUBLE 400A MAIN LUGS

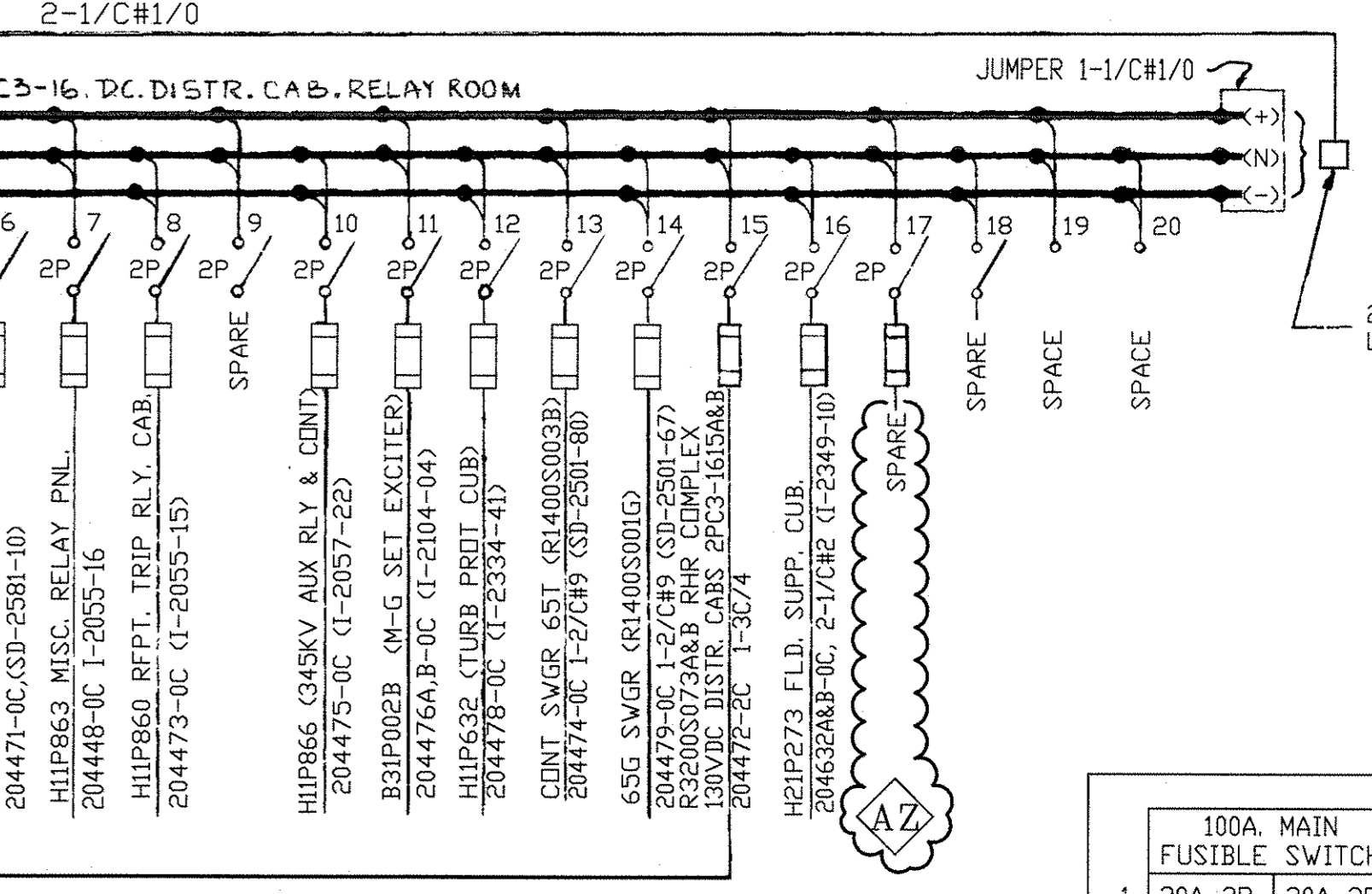
R3200S028
2PC3
MAIN D.C. DISTR. CAB.
RADWASTE BLDG

200A MAIN LUGS	
1	30A-2P 30A-2P
2	30A-2P 30A-2P
3	30A-2P 30A-2P
4	30A-2P 30A-2P
5	30A-2P 30A-2P
6	30A-2P 30A-2P
7	30A-2P 30A-2P
8	30A-2P 30A-2P
9	30A-2P 30A-2P
10	30A-2P 30A-2P
11	30A-2P 30A-2P
12	30A-2P 30A-2P
13	100A-2P 100A-2P
14	100A-2P 100A-2P
15	100A-2P 100A-2P
16	100A-2P 100A-2P
17	30A-2P 30A-2P
18	30A-2P 30A-2P
19	SPACE
20	SPACE

R3200S070A
2PC3-17
D.C. DISTR. CAB.
RELAY ROOM

200A MAIN LUGS	
1	30A-2P 30A-2P
2	30A-2P 30A-2P
3	30A-2P 30A-2P
4	30A-2P 30A-2P
5	30A-2P 30A-2P
6	30A-2P 30A-2P
7	30A-2P 30A-2P
8	30A-2P 30A-2P
9	30A-2P 30A-2P
10	30A-2P 30A-2P
11	30A-2P 30A-2P
12	30A-2P 30A-2P
13	100A-2P 100A-2P
14	100A-2P 100A-2P
15	100A-2P 100A-2P
16	100A-2P 100A-2P
17	30A-2P 30A-2P
18	30A-2P 30A-2P
19	SPACE
20	SPACE

R3200S070B
2PC3-16
D.C. DISTR. CAB.
RELAY ROOM



R3200S070B, 2PC3-16, D.C. DISTR. CAB. RELAY ROOM



R3200S073A
2PC3-1615A
D.C. DISTR. CAB.
RHR COMPLEX

- FRONTAL ELEVATIONS OF DISTRIBUTION CABINETS SHOW SWITCH AND FUSE CLIP SIZES AND FUSE SIZES. FUSE SIZES ARE SHOWN ON THE ONE LINE DIAGRAMS.
- CHARGER HIGH VOLTAGE ALARM AND TRIP SET AT 136.0 ± 5V AND 139.5 ± 5V RESPECTIVELY. LOW VOLTAGE ALARM SHALL BE SET AT 128.5 ± 5V.
- PROVIDE ISOLATING BARRIERS AROUND CENTER FUSE CLIP OF 3P SWITCHES.
- ALL CABLES TO BE 2/C #12 UNLESS OTHERWISE INDICATED.
- ALL 3-POLE FUSED FEEDS SHALL HAVE A NEUTRAL FUSE LINK, EXCEPT AT THRU-TO-TO SWITCHES.
- FUSES SHALL BE:
A. BUSMAN TIME DELAY KRP-C FUSES RATED AT 600V FOR 1600A FUSES IN BATTERY MAIN FUSE CABINETS.
B. BUSMAN FUSETRON FRN FUSES RATED 250V FOR THE REST SHOWN ON THIS DRAWING.
- FOR DETAILS OF HI & LOW VOLTAGE AND LOSS OF POWER ALARMS AT MAIN CONTROL ROOM ANNUNCIATOR CABINET, SEE DWG. SD-2531-15 TABLES 2 & 3.
- BATTERY CHARGER FLAT AND EQUALIZE VOLTAGES SHALL BE SET AT 133.0 ± 5V AND 137.5 ± 5V RESPECTIVELY.
- GROUND DETECTION LIGHTS ARE 10W, 120V RATED. PRESENCE OF FAULT NOT INDICATED UNTIL PB #2 IS DEPRESSED.
- FOR FUSE SIZE AND TYPE SEE SPEC. 3071-128-EJ.
- ONLY TWO POLES (N-) OF 2PC3 POSITION 14 ARE FUSED.
- DELETED

- REFERENCE DRAWINGS:
- SD-2531-15 INTERNAL W D 130V BOP BATTERY CHARGERS
 - SD-2533-08 BOP BATTERY INSTALLATION
 - SD-2534-09 CHARGER 2C-2 INTERCABLEING DIAGRAM

NON-NUCLEAR SAFETY RELATED
THIS IS A MICROSTATION PRODUCED DRAWING. CHANGES OR REVISIONS MUST BE BROUGHT TO THE ATTENTION OF THE PLANT ENGINEERING DESIGN GROUP TO ENSURE THAT CONFIGURATION CONTROL IS MAINTAINED.

INC CODE		Detroit Edison		Fermi 2	
TITLE	DATE	PREPARED BY	DATE	CHECKED BY	DATE
ONE LINE DIAGRAM 260/130 BOP BATTERY 2PC DISTRIBUTION					
APPROVED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE
K. BENNETT	10-1-15				
APPROVED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE
CHARLES EMMETT	10/1/15				
DRAWING NUMBER	6SD721-2530-12	INC. OFS. FILE NO.	1901	DATE ISSUED TO US	11-9-15
		REV.			
					AZ