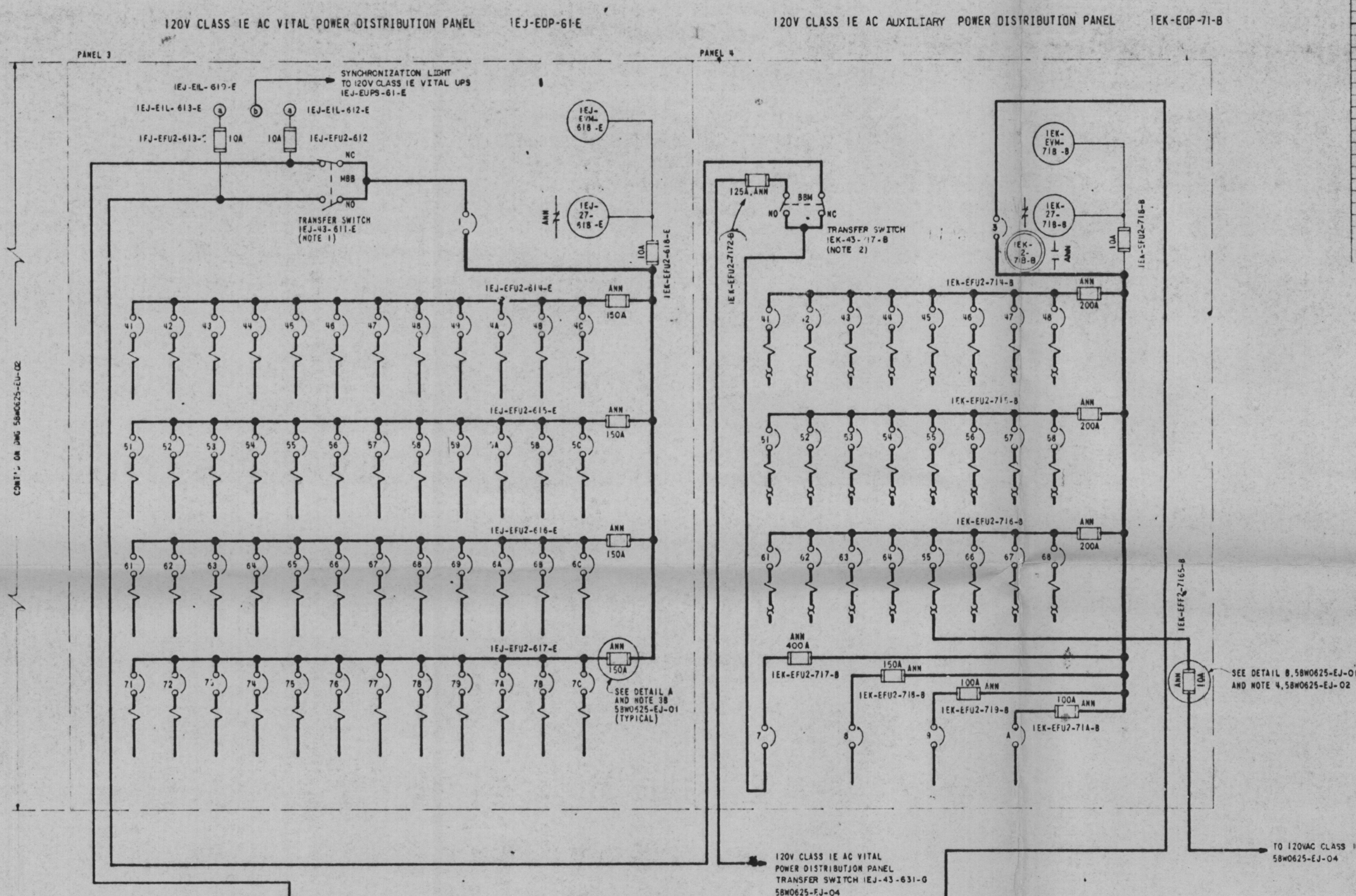
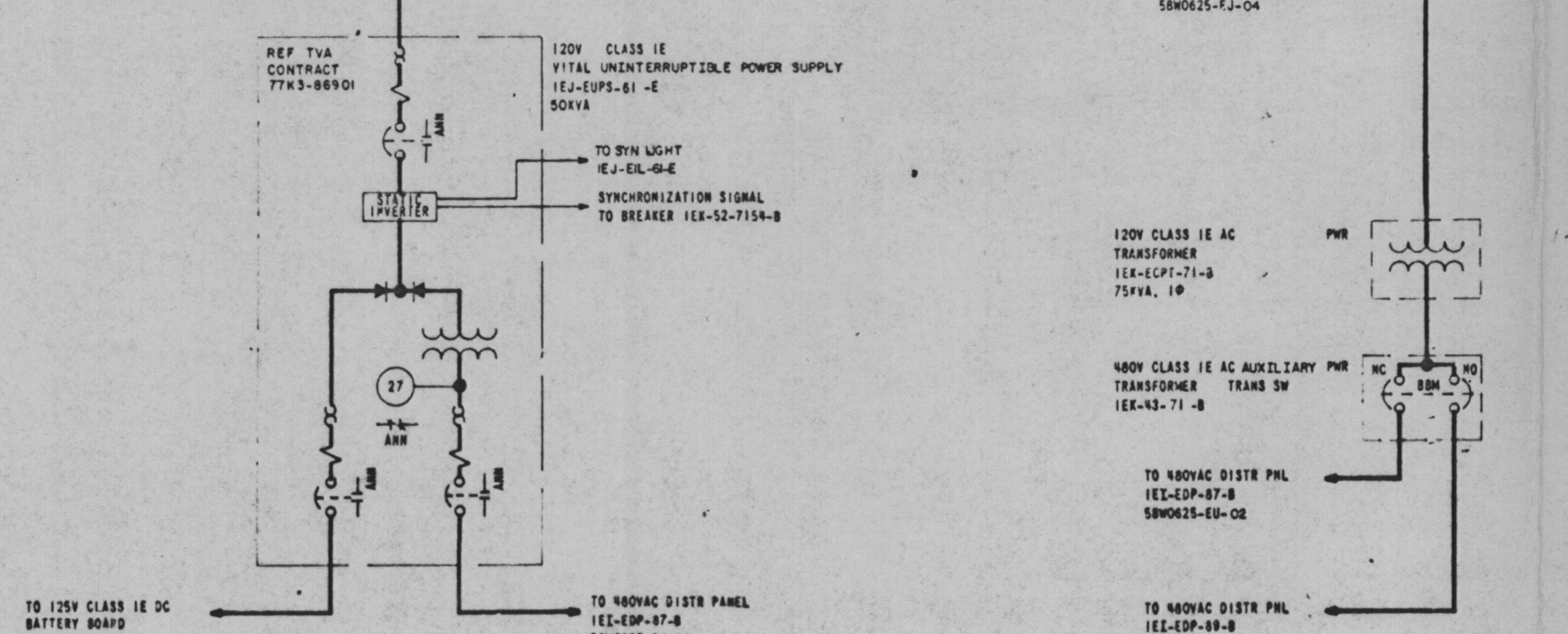
1 2 3 4 5 6 7 8 9 10 11 12





GENERAL NOTES, DETAILS, AND REFERENCES ON 5BW0625-EJ-01

NOTES:

1. TRANSFER SWITCH 1EJ-43-611-E HAS MAKE-BEFORE-BREAK OPERATION, ALTERNATE POSITION SELECTION CLOSES AUXILIARY CONTACT (WIRED OUT FOR ANNUNCIATION).
2. TRANSFER SWITCH 1EK-43-717-B HAS BREAK-BEFORE-MAKE OPERATION.
3. BREAKERS 41—7C ARE HEINEMAN SERIES CF, CURVE 3, MAGNETIC-HYDRAULIC CIRCUIT BREAKERS. "△" INDICATES HIGH-INRUSH MODEL CURVE 30 (PANEL 3 ONLY).
4. FUSE 1EK-EFF2-7165-B IS ANNUNCIATING TYPE USED FOR CIRCUIT PROTECTION.
5. ALL BRANCH OR FEEDER FUSES IN PANEL 3 ARE BUSS TYPE KTN OR EQUAL, EXCEPT AS NOTED.
6. ALL BRANCH OR FEEDER FUSES IN PANEL 4 ARE BUSS TYPE FRN OR EQUAL, EXCEPT AS NOTED.
7. BREAKER 1 OF PANEL 3 AND BREAKERS 3, 7, 8, 9 AND A OF PANEL 4 ARE NON-AUTOMATIC.

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FUSE ANNUNCIATION UNID

FUSE	ANN FUSE	FUSE SET
1EJ-EFU2-614-E	1EJ-EFF2-614-E	4
1EJ-EFU2-615-E	1EJ-EFF2-615-E	5
1EJ-EFU2-616-E	1EJ-EFF2-616-E	6
1EJ-EFU2-617-E	1EJ-EFF2-617-E	7
1EK-EFU2-714-B	1EK-EFF2-714-B	4
1EK-EFU2-715-B	1EK-EFF2-715-B	5
1EK-EFU2-716-B	1EK-EFF2-716-B	6
1EK-EFU2-717-B	1EK-EFF2-717-B	7
1EK-EFU2-718-B	1EK-EFF2-718-B	8
1EK-EFU2-719-B	1EK-EFF2-719-B	9
1EK-EFU2-71A-B	1EK-EFF2-71A-B	A
(NOTE 4)	1EK-EFF2-7165-B	65
1EK-EFU2-7172-B	1EK-EFF2-7172-B	72

CIRCUIT SCHEDULE

PNL	BKR	UNID	FRAME	TRIP	CABLE	CIRCUIT	
3		1EJ-43-611-E	600	-	1EU-ECA4-27-E	120V CLASS 1E AC VITAL UNINTERRUPTABLE POWER SUPPLY 1EJ-EUPS-61-E	
3		1EJ-43-611-E	600	-	———	120V CLASS 1E AC AUXILIARY POWER DISTR PANEL 1EK-EDP-71-B	
3	1	1EJ-52-611-E	225	-	———	120V CLASS 1E AC VITAL POWER DISCONNECT SWITCH	NOTE 7
3	41	1EJ-52-6141-E	100	15			
3	42	1EJ-52-6142-E	100	15			
3	43	1EJ-52-6143-E	100	15			
3	44	1EJ-52-6144-E	100	15		BOP INSTR 1IX-IS-016C-B	
3	45	1EJ-52-6145-E	100	15		BOP INSTR 1IX-IS-016B-B	
3	46	1EJ-52-6146-E	100	15		BOP INSTR 1IX-IS-016A-B	
3	47	1EJ-52-6147-E	100	15△			
3	48	1EJ-52-6148-E	100	15△		(NIRPS) CHANNEL E 1IX-IM-017C-E	
3	49	1EJ-52-6149-E	100	30			
3	4A	1EJ-52-614A-E	100	30			
3	4B	1EJ-52-614B-E	100	50△		ESFAS DIGITAL SUBSYSTEM B, FDR 1, 1IX-IM-016M B	
3	4C	1EJ-52-614C-E	100	50△		SSCS 1IX-IS-012 B	
3	51	1EJ-52-6151-E	100	15			
3	52	1EJ-52-6152-E	100	15			
3	53	1EJ-52-6153-E	100	15		BOP ISOLATOR 1IX-ISOL-147-B (2IX-ISOL-247-B)	
3	54	1EJ-52-6154-E	100	15		BOP ISOLATOR 1IX-ISOL-149-B (2IX-ISOL-249-B)	
3	55	1EJ-52-6155-E	100	15		SYS VK PWR DISTR 1IX-IS-002-B (UNIT 1 ONLY)	
3	56	1EJ-52-6156-E	100	15	1EU-ECA3-91-E	125V CLASS 1E DC PWR DISTR PNL 1EU-EDP-51A-E INSTRUMENTS	
3	57	1EJ-52-6157-E	100	15△			
3	58	1EJ-52-6158-E	100	15△			
3	59	1EJ-52-6159-E	100	30			
3	5A	1EJ-52-615A-E	100	30			
3	5B	1EJ-52-615B-E	100	50△		ESFAS DIGITAL SUBSYSTEM B FDR 2, 1IX-IM-016M-B	
3	5C	1EJ-52-615C-E	100	50△		SSCS 1IX-IS-003-B	
3	61	1EJ-52-6161-E	100	15			
3	62	1EJ-52-6162-E	100	15			
3	63	1EJ-52-6163-E	100	15		BOP INSTR 1IX-IS-016I-B (UNIT 1 ONLY)	
3	64	1EJ-52-6164-E	100	15		BOP INSTR 1IX-IS-016H-B	
3	65	1EJ-52-6165-E	100	15		BOP INSTR 1IX-IS-016G-B	
3	66	1EJ-52-6166-E	100	15		(ECI-Y) 1IX-IS-009-B	
3	67	1EJ-52-6167-E	100	15△			
3	68	1EJ-52-6168-E	100	15△		INC-IFSV-058-B PRESS RELIEF	
3	69	1EJ-52-6169-E	100	30			
3	6A	1EJ-52-616A-E	100	30△			
3	6B	1EJ-52-616B-E	100	50△		SSCS 1IX-IS-017 B	
3	6C	1EJ-52-616C-E	100	50△		SSCS 1IX-IS-005-B	
3	71	1EJ-52-6171-E	100	15			
3	72	1EJ-52-6172-E	100	15			
3	73	1EJ-52-6173-E	100	15		BOP ISOLATOR 1IX-ISOL-151-B (2IX-ISOL-251-B)	
3	74	1EJ-52-6174-E	100	15		BOP ISOLATOR 1IX-ISOL-152-B (2IX-ISOL-252-B)	
3	75	1EJ-52-6175-E	100	15		BOP ISOLATOR 1IX-ISOL-156 B(2IX-ISOL-256-B)	
3	76	1EJ-52-6176-E	100	15		BOP ISOLATOR 1IX-ISOL-159-B(2IX-ISOL-259-B)	
3	77	1EJ-52-6177-E	100	15△			
3	78	1EJ-52-6178-E	100	15△			
3	79	1EJ-52-6179-E	100	30			
3	7A	1EJ-52-617A-E	100	30	1EU-ECA3-1[illegible]-E	120VAC CLASS 1E VITAL DISTR PNL 1EJ-EDP-6[illegible]-E, 1IX-I[illegible]-001-B	
3	7B	1EJ-52-617B-E	100	30△			
3	7C	1EJ-52-617C-E	100	50△		SSCS 1IX-IS-007-B	
4		1EK-43-717-B	600	-	———	120V CLASS 1E AC VITAL POWER DISTRIBUTION PANEL 1EJ-EDP-61-E	
4		1EJ-43-717-B	600	-	1EU-ECA4-40-B	120V CLASS 1E AC VITAL POWER DISTRIBUTION PANEL 1EJ-EDP-63-G	
4	3	1EK-52-713-B	600	-	1EU-ECA4-25-B	120V CLASS 1E AC AUXILIARY POWER TRANSFORMER 1EK-ECPT-71-B	NOTE 7
4	41	1EK-52-7141-B	100	15			
4	42	1EK-52-7142-B	100	15			
4	43	1EK-52-7143-B	100	15		MAIN STEAM SOL VALVES 1SM-IFSV-057-B, 058-B	
4	44	1EK-52-7144-B	100	15		1IX-IM-007 MCR METER ILLUMINATION	
4	45	1EK-52-7145-B	100	15		ESSENTIAL AIR DRYER 1RJ-TDRY-320-B	
4	46	1EK-52-7146-B	100	30		RAD MON INSTR 1IX-IM-020	
4	47	1EK-52-7147-B	100	50		SSCS 1IX-IS-013-B	
4	48	1EK-52-7148-B	100	50		SSCS 1IX-IS-003-B	
4	51	1EK-52-7151-B	100	15			
4	52	1EK-52-7152-B	100	15			
4	53	1EK-52-7153-B	100	15			
4	54	1EK-52-7154-B	100	15	1EU-ECA3-75-E	120V CLASS 1E AC VITAL UPS 1EJ-EUPS-61-E SYNC SIGNAL	
4	55	1EK-52-7155-B	100	15		(ECI-Y) 1IX-IS-009-B	
4	56	1EK-52-7156-B	100	30		SYS VK PWR DISTR 1IX-IS-002-B (UNIT 1 ONLY)	
4	57	1EK-52-7157-B	100	30		SYS VK PWR DISTR 1IX-IS-002-B (UNIT 1 ONLY)	
4	58	1EK-52-7158-B	100	50		SSCS 1IX-IS-005-B	
4	61	1EK-52-7161-B	100	15			
4	62	1EK-52-7162-B	100	15			
4	63	1EK-52-7163-B	100	50		SSCS 1IX-IS-017-B	
4	64	1EK-52-7164-B	100	15			
4	65	1EK-52-7165-B	100	15	1EU-ECA3-94-B	120V CLASS 1E AC VITAL UPS 1EJ-EUPS-63-G SYNC SIGNAL	
4	66	1EK-52-7166-B	100	30			
4	67	1EK-52-7167-B	100	30	1EU-ECA3-104-B	120VAC CLASS 1E AUX PWR DISTR PNL 1EK-EDP-73-B, 1IX-IS-001-B	
4	68	1EK-52-7168-B	100	50		SSCS 1IX-IS-007-B	
4	7	1EK-52-717-B	500	-	———	120V CLASS 1E AC VITAL POWER DISTRIBUTION PNL TRANS SW	NOTE 7
4	8	1EK-52-718-B	225	-	1EU-ECA4-98-B	120VAC CLASS 1E AUX PWR DISTR PNL 1EK-EDP-77-B	NOTE 7
4	9	1EK-52-719-B	225	-			NOTE 7
4	A	1EK-52-71A-B	225	-			NOTE 7

△ - SEE NOTE 8, SHEET 1.

REV NO	ECN NO	DATE	
6	1333, 1496	6-7-82	ADDED LOAD, FSAR FIG NO., TO RELAY & REV NOTE 3.
5	781, 951, 51		REVISED LOADS, CHANGED BKR SIZES, MISC CHANGES.
4	51	9-15-77	REVISED LOADS, ADDED CABLE NUMBERS, MISC CHANGES.
3	ECN-51	8-15-77	REVISED LOADS, BKR SIZES
2	ECN-51, 207		UNID NO'S, LOADS, UPS & XFMR SYS CAPACITY, SYN CKT.
1	ECN-51	3-11-75	SYN LIGHT BY MFRR.

FSAR FIG. 8.3.1-15

INSPECTED AND APPROVED FOR ISSUE

DSGN / DRWN / CHKD / SUPV — JE WORKMAN

INSP / ENGINEER

POWERHOUSE

UNITS 1-2

SINGLE LINE
120 V CLASS 1E AC VITAL POWER DISTRIBUTION SYSTEM — CHANNEL E
120 V CLASS 1E AC AUXILIARY POWER DISTRIBUTION SYSTEM — TRAIN B

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

Q

SUBMITTED | RECOMMENDED | APPROVED

KNOXVILLE | 88 | E | 5BW0625-EJ-02 R6

FSAR | RECORD DRAWING AS CONSTRUCTED

Docket # 50-438
Control # 8304050536
Date 3-25-83 of Document
REGULATORY DOCKET FILE

PRC APERTURE CARD