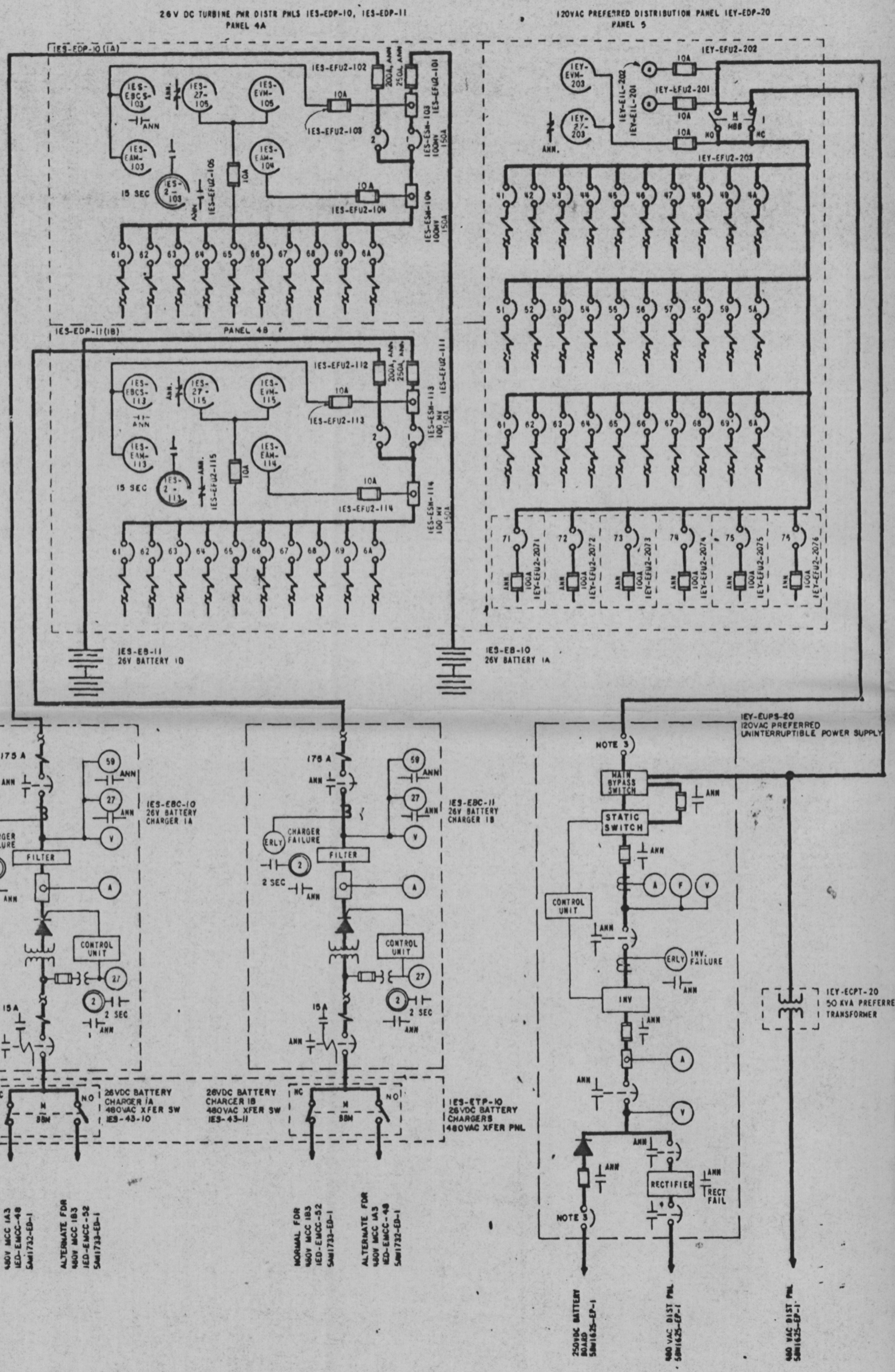


A  
B  
C  
D  
E  
F  
G



FUSE	ANN	FUSE
IES-EF02-101	IES-EFF-2-101	
IES-EF02-102	IES-EFF-2-102	
IES-EF02-111	IES-EFF-2-111	
IES-EF02-112	IES-EFF-2-112	
IES-EF02-2071	IES-EFF-2-2071	
IES-EF02-2072	IES-EFF-2-2072	
IES-EF02-2073	IES-EFF-2-2073	
IES-EF02-2074	IES-EFF-2-2074	
IES-EF02-2075	IES-EFF-2-2075	
IES-EF02-2076	IES-EFF-2-2076	

PANEL	BRK	UID	FRAME	TRIP	CIRCUIT SCHEDULE	CIRCUIT
NA	2	IES-72-102	250	NOTE 1	IEP-ECA8-23	26V BATTERY CHARGER 1A
NA	1	IES-72-101	250	"	IEP-ECA4-26,27	26V BATTERY 1A
NA	61	IES-72-1041	100	15		
NA	62	IES-72-1042	100	15		LOAD BREAK SW CONTROL IIX-EE-005A
NA	63	IES-72-1043	100	15		TURBINE SUPERVISING IIX-EE-005
NA	64	IES-72-1044	100	15		DECOMTIC FOR GENERATOR COOLING IIX-EPT-004
NA	65	IES-72-1065	100	30		GENERATOR EXCITATION IIX-ECA8-E02
NA	66	IES-72-1046	100	30		TURBOCHARGING IIX-EE-003A
NA	67	IES-72-1047	100	50		TURBOPUMP & IIX-EE-002A
NA	68	IES-72-1048	100	50		DECOMTIC FOR TURBINE/CONDENSING PLANT AUXILIARIES IIX-EE-001A
NA	69	IES-72-1049	100	100		
NA	70	IES-72-1049	100	100		
NA	71	IES-72-1111	250	NOTE 1	IEP-ECA8-25	26V BATTERY CHARGER 1B
NA	1	IES-72-1111	250	"	IEP-ECA4-26,27	26V BATTERY 1B
NA	61	IES-72-1181	100	15		
NA	62	IES-72-1182	100	15		
NA	63	IES-72-1183	100	15		TURBINE SUPERVISING IIX-EE-008
NA	64	IES-72-1184	100	15		DECOMTIC FOR GENERATOR COOLING IIX-EPT-004
NA	65	IES-72-1185	100	30		GENERATOR EXCITATION IIX-ECA8-E02
NA	66	IES-72-1186	100	30		TURBOCHARGING IIX-EE-003A
NA	67	IES-72-1187	100	50		TURBOPUMP & IIX-EE-002A
NA	68	IES-72-1188	100	50		DECOMTIC FOR TURBINE/CONDENSING PLANT AUXILIARIES IIX-EE-001A
NA	69	IES-72-1189	100	100		
NA	70	IES-72-1189	100	100		
S	1	IEY-43-201	500		IEP-ECA8-10	120V AC PFD UPS FOR (NOTE 2)
S	1	IEY-43-201	500		IEP-ECA8-7	120V AC PFD TRANSFORMER, ALT (NOTE 2)
S	41	IEY-52-2041	100	15		BOHRON CONCENTRATION ANALYZER INV-IAE-943
S	42	IEY-52-2042	100	15	IEP-ECA3-40	26V DC TURBINE PWR DISTR PNL IES-EOP-11 INSTN
S	43	IEY-52-2043	100	15	IEP-ECA3-26	26V DC TURBINE PWR DISTR PNL IES-EOP-10 INSTN
S	44	IEY-52-2044	100	15		CONTROL AND DRIVE SYSTEM LOGIC IIX-EE-016A
S	45	IEY-52-2045	100	15		CONTROL AND DRIVE SYSTEM LOGIC IIX-EE-017C
S	46	IEY-52-2046	100	30		CORE LOOSE PARTS MONITORING OIX-EE-028
S	47	IEY-52-2047	100	30		120V AC PFD PWR DISTR PNL IES-EOP-22
S	48	IEY-52-2048	100	30		
S	49	IEY-52-2049	100	50		3500-AUX INSTR RM IIX-II-013
S	50	IEY-52-2050	100	50		3500-AUX INSTR RM IIX-II-013-B
S	51	IEY-52-2051	100	15		120 VAC INSTR PWR DISTR PNL IEX-EOP-40 INSTN
S	52	IEY-52-2052	100	15		WASTE DISPOSAL GAS ANALYZER OEL-IAPI-008
S	53	IEY-52-2053	100	15		CAD TRIP BAR IIR-52-011-2
S	54	IEY-52-2054	100	15		PROTECTION SYS AUX CABINET IIX-II-025A
S	55	IEY-52-2055	100	15		
S	56	IEY-52-2056	100	30		120V AC PFD PWR DISTR PNL IES-EOP-23
S	57	IEY-52-2057	100	30		NON-NUCLEAR INSTRUMENTATION IIX-II-019A
S	58	IEY-52-2058	100	30		
S	59	IEY-52-2059	100	30		
S	60	IEY-52-2060	100	30		3500-AUX CONT RM IIX-IA-CU1
S	61	IEY-52-2061	100	15		
S	62	IEY-52-2062	100	15		PLANT CLOSURE FEEDER
S	63	IEY-52-2063	100	15		SEQUENTIAL EVENTS RECORDER IIX-II-020D
S	64	IEY-52-2064	100	15		3500-AUX CONT RM IIX-IA-CU1
S	65	IEY-52-2065	100	15		3500-AUX CONT RM IIX-IA-CU1
S	66	IEY-52-2066	100	30		INTEGRATED CONTROL SYSTEM IEX-EE-009E
S	67	IEY-52-2067	100	30		
S	68	IEY-52-2068	100	30		UNIT ANNUNCIATOR IIX-II-020D
S	69	IEY-52-2069	100	30		3500-AUX CONT RM IIX-IA-CU1
S	70	IEY-52-2070	100	50		3500-AUX CONT RM IEX-2A-507
S	71	IEY-52-2071	250	NOTE 5		
S	72	IEY-52-2072	250	"		
S	73	IEY-52-2073	250	"		
S	74	IEY-52-2074	250	"	IEP-ECA8-19	ELECTRICAL CONTROL RM DISTR PNL OXY-EOP-20R FOR
S	75	IEY-52-2075	250	"	IEP-ECA8-19	UNIT CONTROL RM DISTR PNL IES-EOP-21 ALT FOR (PNL IIX-DM-021)
S	76	IEY-52-2076	250	"	IEP-ECA8-01	UNIT CONTROL RM DISTR PNL IES-EOP-21 FOR (PNL IIX-DM-021)

GENERAL NOTES AND REFERENCES ON 5B1625-EP-1.

NOTES:

- BREAKERS 1 AND 2 OF PANELS IES-EOP-10 AND IES-EOP-11 ARE NON-AUTOMATIC.
- TRANSFER SWITCH 1 HAS MAKE-BEFORE-BREAK OPERATION. OEM CONTROLS INC TYPE NML 600.
- DESIGNATED BREAKERS ON THE PREFERRED DISTRIBUTION PANEL IES-EOP-20 AND THE PREFERRED UNINTERRUPTIBLE POWER SUPPLY ARE NON-AUTOMATIC.
- 26V BATTERY BOARD MAIN FEED FUSES ARE BUSS TYPE FR5.
- 26V BATTERY BOARD CHARGER FEED FUSES ARE BUSS TYPE KTN.
- TRANSFORMER IEY-EPT-20 IS 50 KVA, 10, 5% Z.
- 26VDC TURBINE BATTERY SYSTEMS IA,B,10, AND 120VAC PREFERRED SYSTEM ARE EACH SINGLE-POINT GROUNDING SYSTEMS.
- 120 VAC PREFERRED 100A BRANCH FUSES ARE BUSS TYPE FRX.
- 26VDC SYSTEM VOLTAGE IS A MAXIMUM OF 30.3V AT EQUALIZE AND 24.05V AT BATTERY DISCHARGE.

PRC APERTURE CARD

4	SI	2272a	CH	04/04/84	04/04/84	04/04/84	04/04/84	04/04/84	04/04/84
3	1140	15521	CH	04/04/84	04/04/84	04/04/84	04/04/84	04/04/84	04/04/84
2	SI	7217	CH	04/04/84	04/04/84	04/04/84	04/04/84	04/04/84	04/04/84
1	SI	11078	CH	04/04/84	04/04/84	04/04/84	04/04/84	04/04/84	04/04/84

Docket # 50-438  
Control # 8304052536  
Date 3-25-87 of Document  
REGULATORY DOCKET FILE

REL. TO MFR'S DWG'S, MODIFIED URID NO'S, LOAD, AND NOTES.

REV	ECH NO.	DATE	BY	CHKD	SUPV	ENGR	INSP	APPV
DESIGN	G. S. PETERSON							
DRAWN	J. B. DELANEY							
CHKD	K. B. JAY							
SUPV	R. E. CANNON							

POWERHOUSE  
UNIT 1

SINGLE LINE  
26V DC TURBINE BATTERY &  
120V AC PLANT PREFERRED SYSTEMS

BELLEFONTE NUCLEAR PLANT  
TENNESSEE VALLEY AUTHORITY  
DIVISION OF ENGINEERING DESIGN

SUBMITTED: M. W. ... RECOMMENDED: ... APPROVED: ...

INSPECTED AND APPROVED FOR ISSUE

KNOXVILLE 8-28-74 88 E 5B1625-EP-02 PM

PRINTS REQUIRED

NO.	BY	DATE	QTY	SIZE
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

mf  
23  
41  
13  
13  
24