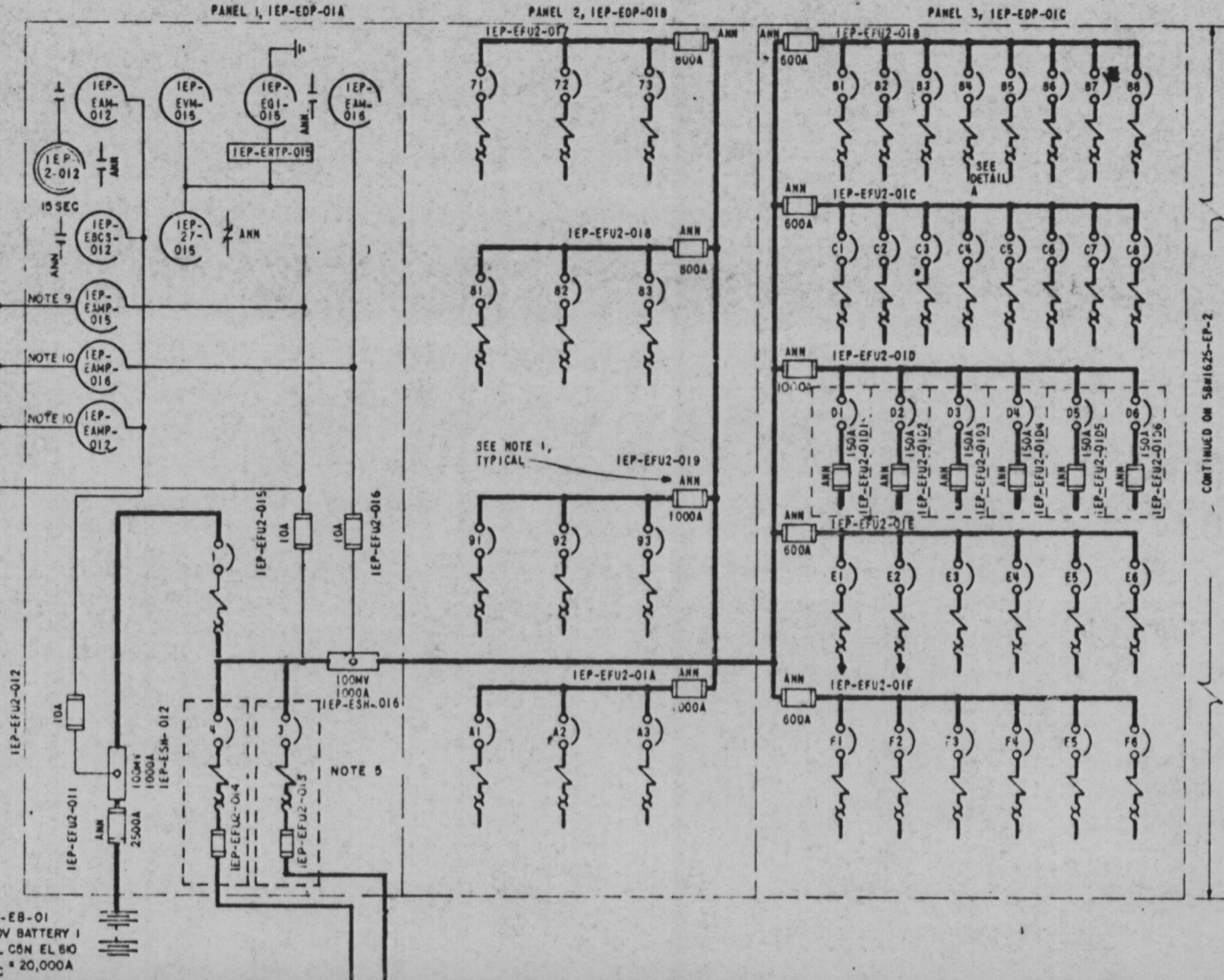


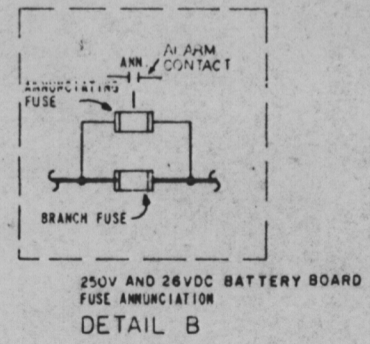
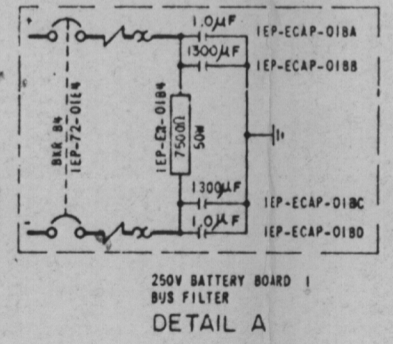
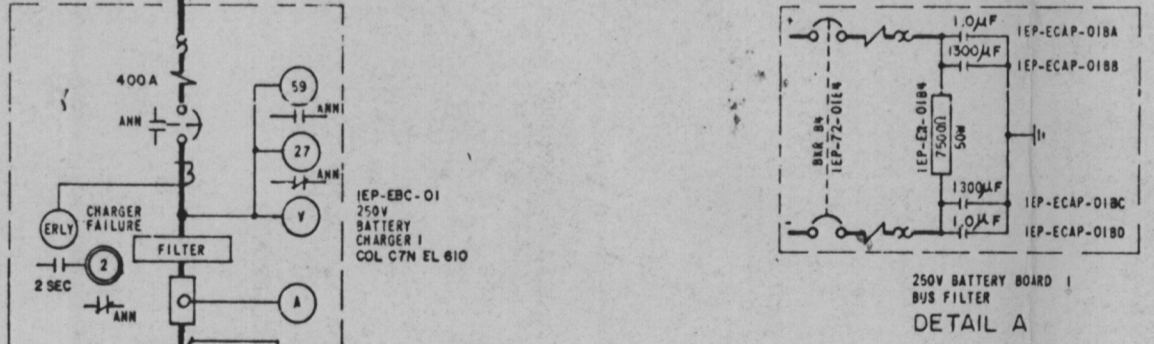
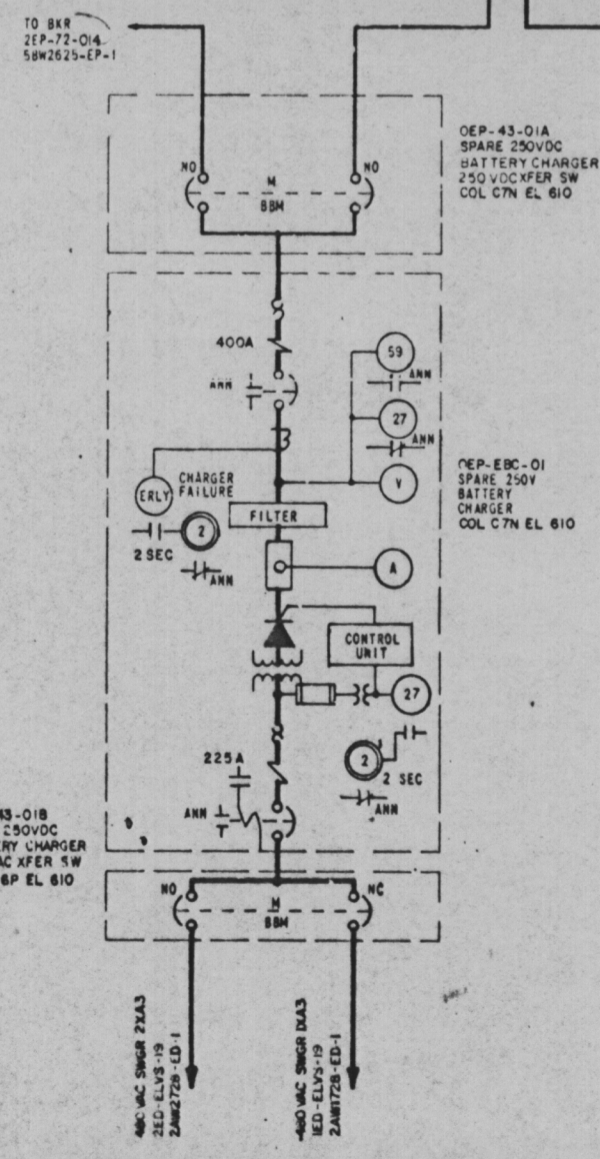
250V BATTERY BOARD, IEP-EBB-01 COL C6N EL 610



CONTINUED ON SB1625-EP-2

FUSE	ANN	FUSE
IEP-EF2-011	IEP-EF2-011	
IEP-EF2-017	IEP-EF2-017	
IEP-EF2-018	IEP-EF2-018	
IEP-EF2-019	IEP-EF2-019	
IEP-EF2-01A	IEP-EF2-01A	
IEP-EF2-01B	IEP-EF2-01B	
IEP-EF2-01C	IEP-EF2-01C	
IEP-EF2-01D	IEP-EF2-01D	
IEP-EF2-01E	IEP-EF2-01E	
IEP-EF2-01F	IEP-EF2-01F	
IEP-EF2-01G	IEP-EF2-01G	
IEP-EF2-01H	IEP-EF2-01H	
IEP-EF2-01I	IEP-EF2-01I	
IEP-EF2-01J	IEP-EF2-01J	
IEP-EF2-01K	IEP-EF2-01K	
IEP-EF2-01L	IEP-EF2-01L	
IEP-EF2-01M	IEP-EF2-01M	
IEP-EF2-01N	IEP-EF2-01N	
IEP-EF2-01O	IEP-EF2-01O	
IEP-EF2-01P	IEP-EF2-01P	
IEP-EF2-01Q	IEP-EF2-01Q	
IEP-EF2-01R	IEP-EF2-01R	
IEP-EF2-01S	IEP-EF2-01S	
IEP-EF2-01T	IEP-EF2-01T	
IEP-EF2-01U	IEP-EF2-01U	
IEP-EF2-01V	IEP-EF2-01V	
IEP-EF2-01W	IEP-EF2-01W	
IEP-EF2-01X	IEP-EF2-01X	
IEP-EF2-01Y	IEP-EF2-01Y	
IEP-EF2-01Z	IEP-EF2-01Z	

PANEL	BAR	UNIT	FRAME	TRIP	CIRCUIT SCHEDULE	CIRCUIT
1	1	IEP-72-011	2000	2000	IEP-ECAN-19	240V RAT FRY T
1	6	IEP-72-016	400	400	IEP-ECAN-17	SPARE 250VDC BATTERY CHARGER (NOTE 5)
1	3	IEP-72-013	400	400	IEP-ECAN-16	250VDC BATTERY CHARGER (NOTE 5)
2	71	IEP-72-0171	400	250		
2	72	IEP-72-0172	400	250		
2	73	IEP-72-0173	400	250		
2	81	IEP-72-0181	400	200	IEP-ECAN-02	120V AC COMPUTER UNINTERRUPTIBLE POWER SUPPLY IEP-EUPS-32
2	82	IEP-72-0182	400	200		TURBINE EMERGENCY LUBE OIL PUMP MOTOR ALT FOR UNIT 2 276-43-022
2	83	IEP-72-0183	400	200		TURBINE EMERGENCY LUBE OIL PUMP MOTOR ADM FOR UNIT 1 176-43-022
2	91	IEP-72-0191	400	300		
2	92	IEP-72-0192	400	300		
2	93	IEP-72-0193	400	300		
2	A1	IEP-72-01A1	400	300		EMERGENCY AIR OIL PUMP ALT FOR UNIT 2 276-43F-005
2	A2	IEP-72-01A2	400	300		EMERGENCY AIR OIL PUMP NORM FOR UNIT 1 176-43F-005
2	A3	IEP-72-01A3	400	300		
3	B1	IEP-72-01B1	100	30		
3	B2	IEP-72-01B2	100	30		
3	B3	IEP-72-01B3	100	30		
3	B4	IEP-72-01B4	100	30		
3	B5	IEP-72-01B5	100	15		
3	B6	IEP-72-01B6	100	15		
3	B7	IEP-72-01B7	100	15		
3	B8	IEP-72-01B8	100	15		
3	B9	IEP-72-01B9	100	50		
3	C2	IEP-72-01C2	100	50		
3	C3	IEP-72-01C3	100	50		
3	C4	IEP-72-01C4	100	50		
3	C5	IEP-72-01C5	100	30		
3	C6	IEP-72-01C6	100	30		
3	C7	IEP-72-01C7	100	15		
3	C8	IEP-72-01C8	100	15		
3	D1	IEP-72-01D1	250	NOTE 6	IEP-ECAN-49	UNIT 1 CONTROL RM DISTR PNL IEP-EDP-02 NOR FOR (PNL 171-2M-021)
3	D2	IEP-72-01D2	250	"	IEP-ECAN-48	ELECTRICAL CONTROL RM DISTR PNL IEP-EDP-07 NOR FOR
3	D3	IEP-72-01D3	250	"	IEP-ECAN-50	UNIT 2 CONTROL RM DISTR PNL IEP-EDP-04 NOR FOR
3	D4	IEP-72-01D4	250	"	IEP-ECAN-49-R	ELECTRICAL CONTROL RM DISTR PNL IEP-EDP-08 ALT FOR
3	D5	IEP-72-01D5	250	"		
3	D6	IEP-72-01D6	250	"		
3	E1	IEP-72-01E1	250	100		MAIN FEED PUMP TURBINE 1A EMERGENCY OIL PUMP (NOR FEEDER) IEP-43-999
3	E2	IEP-72-01E2	250	100		MAIN FEED PUMP TURBINE 2B EMERGENCY OIL PUMP (ALT FEEDER) IEP-43-992
3	E3	IEP-72-01E3	250	100		250VDC OPD SHOP AREA TEST BENCH CMS ETB-101
3	E4	IEP-72-01E4	250	70		
3	E5	IEP-72-01E5	250	70		
3	F6	IEP-72-01F6	250	70		
3	F1	IEP-72-01F1	250	150		
3	F2	IEP-72-01F2	250	150		
3	F3	IEP-72-01F3	250	150		
3	F4	IEP-72-01F4	250	100		MAIN FEED PUMP TURBINE 2A EMERGENCY OIL PUMP (ALT FEEDER) IEP-43-999
3	F5	IEP-72-01F5	250	100		MAIN FEED PUMP TURBINE 1B EMERGENCY OIL PUMP (NOR FEEDER) IEP-43-992
3	F6	IEP-72-01F6	250	100		



- NOTES:
- ALL BREAKERS ARE PROVIDED ALARM CONTACTS WHICH CLOSE WHEN BREAKER TRIPS DUE TO OVERLOAD OR SHORT CIRCUIT. FUSES, DESIGNATED BY "ANN", ARE PROVIDED ALARM CONTACTS WHICH CLOSE WHEN FUSE OPENS DUE TO OVERLOAD OR SHORT CIRCUIT (SEE DETAIL B).
  - ALL CONTACTS ARE INDIVIDUALLY WIRED OUT TO MANUFACTURER'S TERMINAL BLOCKS AND ARE TO BE CONNECTED IN PARALLEL FOR COMMON ALARM PHL SYSTEM, A 250VDC SYSTEM, 26V DC SYSTEM A, 26VDC SYSTEM B, AND 120V AC PREFERRED SYSTEM.
  - PANEL 4A, 4B AND 5 INSTRUMENT FUSES ARE BUSS TYPE K&P.
  - ALL 250V BATTERY BOARD FUSES ARE CHASE-SHAMMUT 600V FORM 101 AMP TRAP, OR EQUAL, EXCEPT BATTERY FUSES-BUSS TYPE K&P AND 150A BRANCH FUSES-BUSS TYPE F&S.
  - THE 250V BATTERY BOARD MAIN FEED BREAKER IS TO BE SET AS FOLLOWS: SHORT TIME MAGNETIC DELAY, ADJUSTABLE PICK UP SET AT 11,000 AMPS.
  - BREAKERS 3 AND 4 ARE 3 TYPE LA TRI-PAC, 400A THERMAL SET, WITH 600 LAPDQ LIMITER.
  - BREAKERS 01-06 ARE NON-AUTOMATIC.
  - WAFAX 71-73, 81-83, 91-93, AND A1-A3 HAVE LOW MAGNETIC TRIP SETTINGS.
  - THE 250V DC BATTERY SYSTEM VOLTAGE WILL NORMALLY BE 250V BUT MAY BE 280V DURING EQUALIZE CHARGING OR 210V WHEN THE BATTERY IS DISCHARGED.
  - IEP-EHP-015, SHUNT/ISOLATION/AMPLIFIER, HAS SIGNAL LEVEL OF 0.0 TO +30 MILLIAMPS. SCIENTIFIC COLUMBUS MODEL 6271A.
  - IEP-EHP-016 AND IEP-EHP-012, SHUNT/ISOLATION/AMPLIFIERS, HAVE SIGNAL LEVELS OF 23.0 MILLIAMPS. SCIENTIFIC COLUMBUS MODEL 6271A.
  - PANEL 1 INSTRUMENT FUSES ARE BUSS TYPE K&P PER MIL SPEC MIL-F-15160/61, PART NO. FBIC-500V-10A.

PRC APERTURE CARD

3	51	4-1-80	10-11-80	10-11-80	10-11-80				
CORRECTED TRIP SETTING REVISED LOADS									
2	51	422	4-7-78	10-11-80	10-11-80				
REVISED 480VAC SUPPLY TO SPARE 250V BATTERY CHARGER									
1	51	158	1-10-78	10-11-80	10-11-80				
REV. TO MFR'S DWG'S, MODIFIED UNIT NO'S, LOADS AND NOTES.									
REV	NO	DATE	DESIGN	CHKD	SUPV	ENGR	INSP	INSTR	APPV
DESIGN	S. G. PETERSON				INSPI				
CHKD	S. G. PETERSON				ENGR				
APPV	W. B. TATUM				ENGR				
SUPV: RECORDED									

Doc# 8304652576 Date 3-25-83 of Document: REGULATORY DOCKET FILE

- REFERENCE DRAWINGS:
- SBW620-EP-1 --- KEY DIAGRAM
  - SBW624-EP-1 --- FRONT VIEW
  - ELECTRICAL COMPONENT TAB --- SYSTEM EP, ES, AND EY
  - SBW640-EP-1-1A --- SCHEMATICS
  - 9C0716-10-5, 6, 7 --- ELEC CONT BO WIRING DIAGRAMS
  - 56C0600-EP --- CABLE SCHEDULES
  - 56C0600-EP --- CABLE SCHEDULES

POWERHOUSE UNIT 1

SINGLE LINE 250VDC BATTERY SYSTEM

BELLEFONTE NUCLEAR PLANT  
TENNESSEE VALLEY AUTHORITY  
DIVISION OF ENGINEERING DESIGN

SUBMITTED: M. W. Peterson  
RECOMMENDED: J. L. ...  
APPROVED: R. M. ...

INSPECTED AND APPROVED FOR ISSUE

KNOXVILLE 8-28-74 88 E SBW1625-EP-01 03

THIS DRAWING IS UNDER CONFIGURATION CONTROL