UNIT 2/3
125VDC SYSTEM

DOP 6900-E2
Revision 7
June 1986

UNIT STATUS Shutdown or Refuel

SYSTEM STATUS Prestartup

PERFORMED BY: SIGNATURE	INITIALS	DATE

COMPLETION REVIEW: SHIFT SUPERVISOR _____ DATE _____

REMARKS: _____

0598U
0110b

APPROVED
JUN 26 '86
D.O.S.R.

ATTACHMENT 1

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JUN 26'86

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COMPONENT DESCRIPTION/NUMBER	LOCATION	DESIRED CONDITION	AS LEFT CONDITION	INITIALS
Battery Terminals	Unit 2	CLEAN AND FREE OF FOREIGN OBJECTS		
Battery Room Ventilation	Unit 2	IN SERVICE		
Battery to Main Bus Breaker	U-2 Turb. Bldg. Main Bus #2A-1 (B-1)	CLOSED		
U-2 Reactor Building Distribution Panel #2 Removable CU Links in Place for Supply from Turbine Building Main Bus #2A-1	U-2 Reactor Bldg. Dist. Panel (A-1)	SUPPLIED FROM UNIT'S TURBINE BUILDING MAIN BUS #2A-1		
Turbine Building Main Bus #2A-1 Feed to Reactor Building Distribution Panel #2	U-2 Turb. Bldg. Main Bus #2A-1 (A-2)	CLOSED		
Turbine Building Main Bus #2A-1 Feed to Turbine Building Reserve Bus 3B-1	U-2 Turb. Bldg. Main Bus #2A-1 (A-1)	CLOSED		
Reserve Feed to U-2 Turb. Bldg. Res. Bus #2B from U-2 Turb. Bldg. Main Bus #2A-1	U-2 Turb. Bldg. Main Bus #2A-1 (A-3)	OPEN		

NOTES:
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COMPONENT DESCRIPTION/NUMBER	LOCATION	DESIRED CONDITION	AS LEFT CONDITION	INITIALS
Main Feed from U-3 Turb. Bldg. Main Bus #3 to U-2 Turbine Building Reserve Bus #2B	U-2 Turb. Bldg. Res. Bus #2B (H-3)	CLOSED		
U-2 Turbine Building Reserve Bus #2B Reserve Feed from U-2 Main Bus #2A-1	U-2 Turb. Bldg. Res. Bus #2B (G-3)	OPEN		
125VDC Feed to TB Res. Bus Dist. Pnl. #2B-1	U-2 Turb. Bldg. Res. Bus #2B (G-1)	CLOSED		
125VDC Feed to TB Res. Bus Dist. Pnl. #2B-2	U-2 Turb. Bldg. Res. Bus #2B (G-5)	CLOSED		
Bus 21 Control Power	U-2 Turb. Bldg. Main Bus Dist. Panel #2A-2 (ckt #1)	NORMAL SUPPLY FROM TURB. BLDG. MAIN BUS 2A-2*		
Bus 22 Control Power	U-2 Turb. Bldg. Res. Bus Dist. Panel #2B-2 (ckt #2)	NORMAL SUPPLY FROM TURB. BLDG. RESERVE BUS 2B-2*		

NOTES: *Verify that Cu links are in the appropriate fuse blocks at the switchgear.
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COMPONENT DESCRIPTION/NUMBER	LOCATION	DESIRED CONDITION	AS LEFT CONDITION	INITIALS
Bus 23 Control Power	U-2 Turb. Bldg. Main Bus Dist. Panel #2A-1 (ckt #3)	NORMAL SUPPLY FROM TURB. BLDG. MAIN BUS #2A-1*		
Bus 24 Control Power	U-2 Turb. Bldg. Res. Bus Dist. Panel #2B-1 (ckt #2)	NORMAL SUPPLY FROM TURB. BLDG. RESERVE BUS #2B-1*		
Bus 25 Control Power	U-2 Turb. Bldg. Main Bus Dist. Panel #2A-2 (ckt #3)	NORMAL SUPPLY FROM TURB. BLDG. MAIN BUS #2A-2*		
Bus 26 Control Power	U-2 Turb. Bldg. Res. Bus Dist. Panel #2B-2 (ckt #4)	NORMAL SUPPLY FROM TURB. BLDG. RESERVE BUS #2B-2*		
Bus 27 Control Power	U-2 Turb. Bldg. Res. Bus Dist. Pnl. #2B-2 (ckt #6)	NORMAL SUPPLY FROM TURB. BLDG. RESERVE BUS #2B-2*		

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COMPONENT DESCRIPTION/NUMBER	LOCATION	DESIRED CONDITION	AS LEFT CONDITION	INITIALS
Bus 23-1 Control Power	U-2 Reactor Bldg. Dist. Panel #2 (ckt #2)	NORMAL SUPPLY FROM REACTOR BLDG. DIST. PANEL #2*		
Bus 24-1 Control Power	U-2 Turb. Bldg. Res. Bus Dist. Panel #2B-1 (ckt #4)	NORMAL SUPPLY FROM TURB. BLDG. RESERVE BUS #2B-1*		
Bus 28 Control Power	U-2 Reactor Bldg. Dist. Panel #2 (ckt #4)	NORMAL SUPPLY FROM REACTOR BLDG. DIST. PANEL #2		
Bus 29 Control Power	U-2 Turb. Bldg. Res. Bus Dist. Pnl. #2B-1 (ckt #6)	NORMAL SUPPLY FROM TURB. BLDG. RESERVE BUS #2B-1*		
Battery Charger 2	U-2 Battery Room	IN SERVICE		
Battery Charger 2A	U-2 Battery Room	IN SERVICE		

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COMPONENT DESCRIPTION/NUMBER	LOCATION	DESIRED CONDITION	AS LEFT CONDITION	INITIALS
Chargers on Battery	U-2 Turb. Bldg. Main Bus #2A-1	2 OR 2A		
Record Voltages	U-2 Battery	--------		
Record Voltages	U-2 Main Bus	--------		
Record Voltages	U-2 Reserve Bus	--------		
Record Voltages	U-2 Battery	--------	Positive to GRD	
Record Voltages	U-2 Battery	--------	Negative to GRD	

NOTES:

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COMPONENT DESCRIPTION/NUMBER	LOCATION	DESIRED CONDITION	AS LEFT CONDITION	INITIALS
Battery Terminals	Unit 3	CLEAN AND FREE OF FOREIGN OBJECTS		
Battery Room Ventilation	Unit 3	IN SERVICE		
Battery to Main Bus Breaker	U-3 Turb. Bldg. Main Bus #3A (H-4)	CLOSED		
U-3 Reactor Building Distribution Panel #3 Removable CU Links in Place for Supply from Turbine Building Main Bus #3A	U-3 Reactor Bldg. Dist. Panel (A-1)	SUPPLIED FROM UNIT'S TURBINE BUILDING MAIN BUS		
Turbine Building Main Bus #3A Feed to Reactor Building Distribution Panel #3A	U-3 Turb. Bldg. Main Bus #3A (G-2)	CLOSED		
Turbine Building Main Bus #3A to Turbine Building Reserve Bus #2B	U-3 Turb. Bldg. Main Bus #3A (G-3)	CLOSED		
Turbine Building Main Bus #3A to Turbine Building Reserve Bus #3B-1	U-3 Turb. Bldg. Main Bus #3A (G-4)	OPEN		

NOTES:
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COMPONENT DESCRIPTION/NUMBER	LOCATION	DESIRED CONDITION	AS LEFT CONDITION	INITIALS
Feed to Turbine Building Main Bus Dist. Panel 3A-1	U-3 Turb. Bldg. Main Bus #3A (G-1)	CLOSED		
Feed to Turbine Building Main Bus Dist. Panel 3A-2	U-3 Turb. Bldg. Main Bus #3A (G-5)	CLOSED		
Main Feed from U-2 Turb. Bldg. Main Bus #2A-1 to U-3 Turbine Building Reserve Bus #3	U-3 Turb. Bldg. Res. Bus #3B-1 (B-1)	CLOSED		
U-3 Turbine Building Reserve Bus #3B-1 Reserve Feed from U-3 Main Bus #3A	U-3 Turb. Bldg. Res. Bus #3B-1 (A-1)	OPEN		
Bus 31 Control Power	U-3 Turb. Bldg. Main Bus Dist. Pnl. #3A-2 (ckt #1)	NORMAL SUPPLY FROM TURB. BLDG. MAIN BUS #3A-2*		
Bus 32 Control Power	U-3 Turb. Bldg. Res. Bus Dist. Panel #3B-2 (ckt #12)	NORMAL SUPPLY FROM TURB. BLDG. RESERVE BUS #3B-2*		

NOTES: *Verify that Cu links are in the appropriate fuse blocks at the switchgear.
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COMPONENT DESCRIPTION/NUMBER	LOCATION	DESIRED CONDITION	AS LEFT CONDITION	INITIALS
Bus 33 Control Power	U-3 Turb. Bldg. Main Bus Dist. Pnl. #3A-1 (ckt #3)	NORMAL SUPPLY FROM TURB. BLDG. MAIN BUS #3A-1*		
Bus 34 Control Power	U-3 Turb. Bldg. Res. Bus Dist. Pnl. #3B-1 (ckt #6)	NORMAL SUPPLY FROM TURB. BLDG. RESERVE BUS #3B-1*		
Bus 35 Control Power	U-3 Turb. Bldg. Main Bus Dist. Pnl. #3A-2 (ckt #3)	NORMAL SUPPLY FROM TURB. BLDG. MAIN BUS #3A-2*		
Bus 36 Control Power	U-3 Turb. Bldg. Res. Bus Dist. Pnl. #3B-2 (ckt #11)	NORMAL SUPPLY FROM TURB. BLDG. RESERVE BUS #3B-2*		
Bus 37 Control Power	U-3 Turb. Bldg. Res. Bus Dist. Pnl. #3B-2 (ckt #10)	NORMAL SUPPLY FROM TURB. BLDG. RESERVE BUS #3B-2*		

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COMPONENT DESCRIPTION/NUMBER	LOCATION	DESIRED CONDITION	AS LEFT CONDITION	INITIALS
Bus 33-1 Control Power	U-3 Reactor Bldg. Dist. Panel #3 (ckt #2)	NORMAL SUPPLY FROM REACTOR BLDG. DIST. PANEL #3*		
Bus 34-1 Control Power	U-3 Turb. Bldg. Res. Bus Dist. Panel #3B-1 (ckt #1)	NORMAL SUPPLY FROM TURB. BLDG. RESERVE BUS #3B-1*		
Bus 38 Control Power	U-3 Reactor Bldg. Dist. Panel #3 (ckt #4)	NORMAL SUPPLY FROM REACTOR BLDG. DIST. PANEL #3*		
Bus 39 Control Power	U-3 Turb. Bldg. Res. Bus Dist. Panel #3B-1 (ckt #2)	NORMAL SUPPLY FROM TURB. BLDG. RESERVE BUS #3B-1*		
Battery Charger 3	Unit 3 Battery Room	IN SERVICE		
Battery Charger 3A	Unit 3 Battery Room	IN SERVICE		

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0598U
0110b

COMPONENT DESCRIPTION/NUMBER	LOCATION	DESIRED CONDITION	AS LEFT CONDITION	INITIALS
Chargers on Battery	U-3 Turb. Bldg. Main Bus #3A	3 OR 3A		
Record Voltages	U-3 Battery	--------		
Record Voltages	U-3 Main Bus	--------		
Record Voltages	U-3 Reserve Bus	--------		
Record Voltages	U-3 Battery	--------	Positive to GRD	
Record Voltages	U-3 Battery	--------	Negative to GRD	

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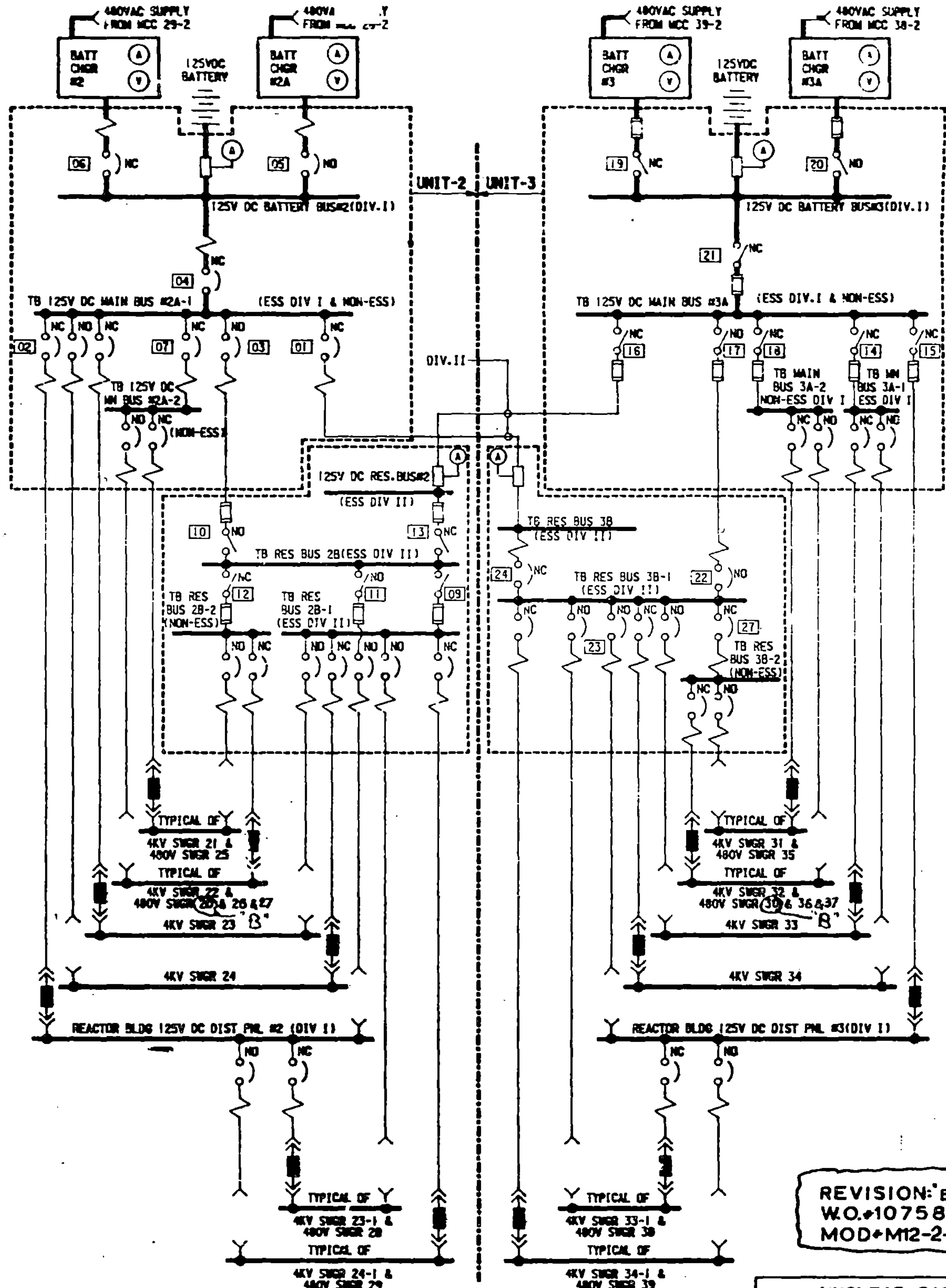
ATTACHMENT 2



REVISION: "B"
W.O.#107580A
MOD#M12-2-81-12

E. W. FISCHER 35110 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

FINAL OVERALL KEY-125V DC SYSTEM
(ADDITION OF NEW UNIT 3 PANEL)

NUCLEAR SAFETY RELATED EQUIPMENT IS SHOWN ON THIS DRAWING

NO.	NOTES
1.	372- [XX] -INDICATES A.C.B. OR FUSED SWITCH NUMBER

FOR INFORMATION ONLY

DRAWING RELEASE RECORD			
REV.	DATE	DESCRIPTION	DRAWN / CHECKED / ENGR. APPROVAL
A		RELEASED FOR CONSTRUCTION PER JOB 5569-31	
B	9-25-84	CHANGED PER JOB 5569-31 FOR CONSTRUCTION	

OVERALL KEY DIAGRAM
125VDC DISTRIBUTION CENTERS-PT.2
DRESDEN NUCLEAR POWER STATION UNITS 2 & 3
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SCALE NONE

CHECKED C.F. Lit 2-10-84

SARGENT & LUNDY ENGINEERS CHICAGO

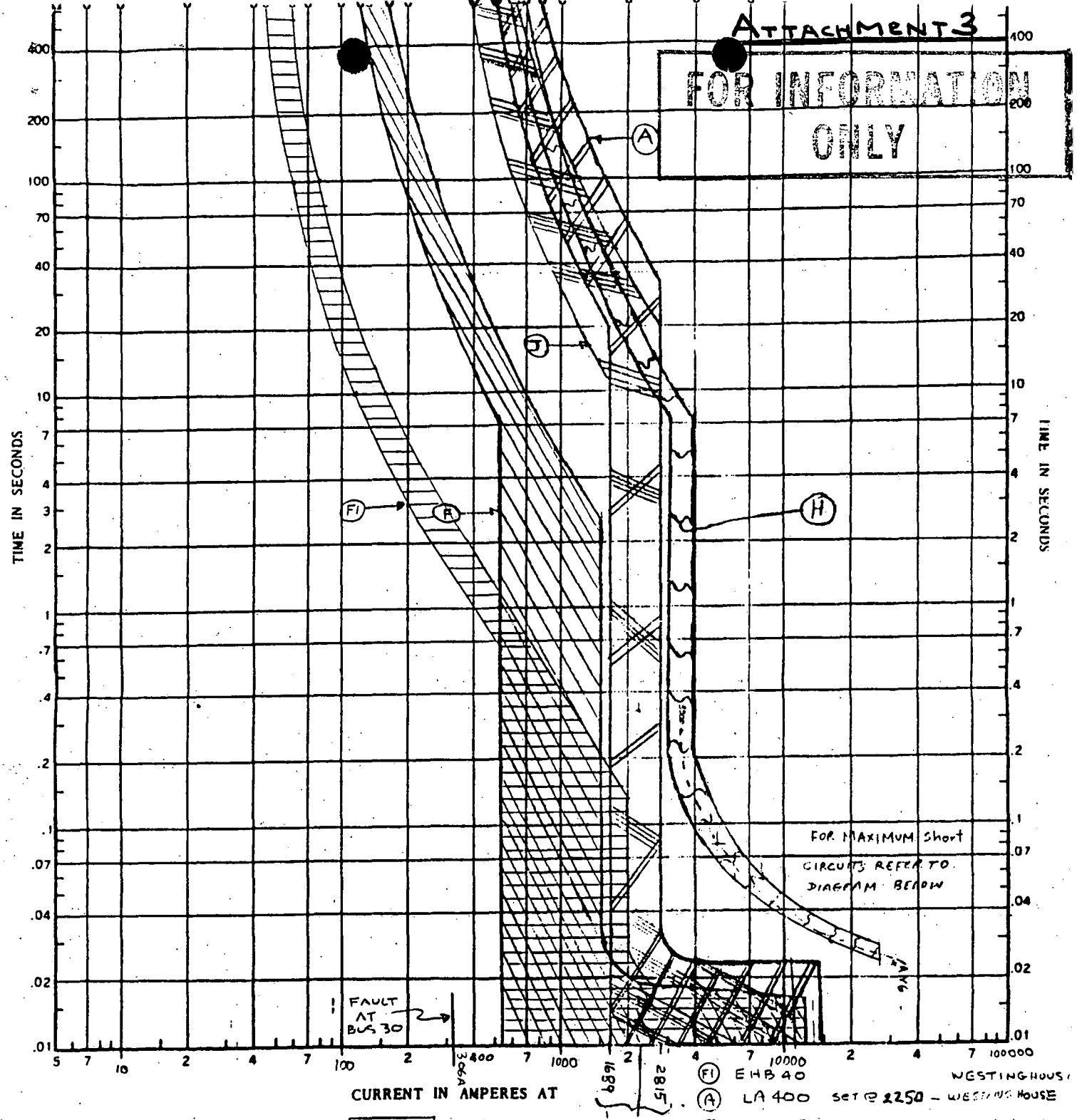
JOB NO 5569-31

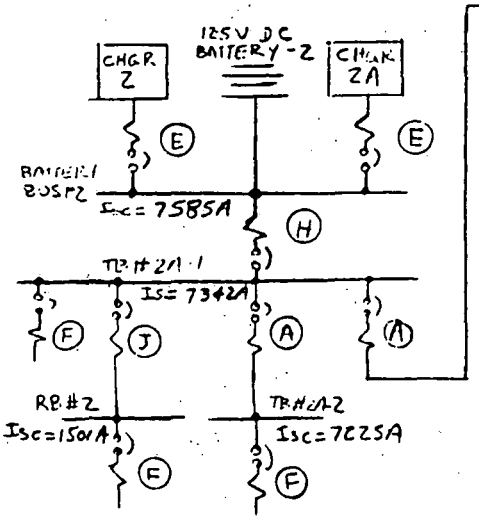
DRAWING NO. 12E-232282

04

ATTACHMENT 3

FOR INFORMATION ONLY





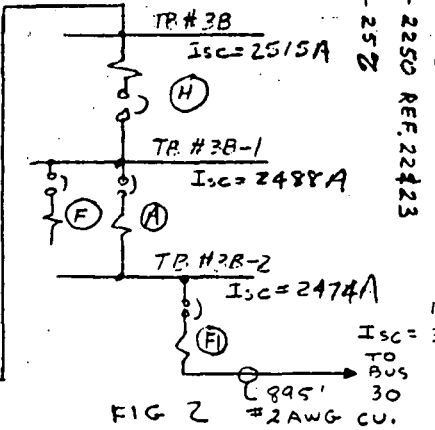


FIG 2
125 V DC COORDINATION COND.
DRESDEN 2&3

SARGENT & LUNDY ENGINEERS

6-25-70 ESD-198

125 VDC SYSTEM CIRCUIT BREAKER AND FUSE COORDINATION
SAFETY-RELATED

CECO
DRESDEN UNITS 2 & 3
PROJ No 5667

CALC NO. 5667-19-02
REV 0
DATE
PAGE