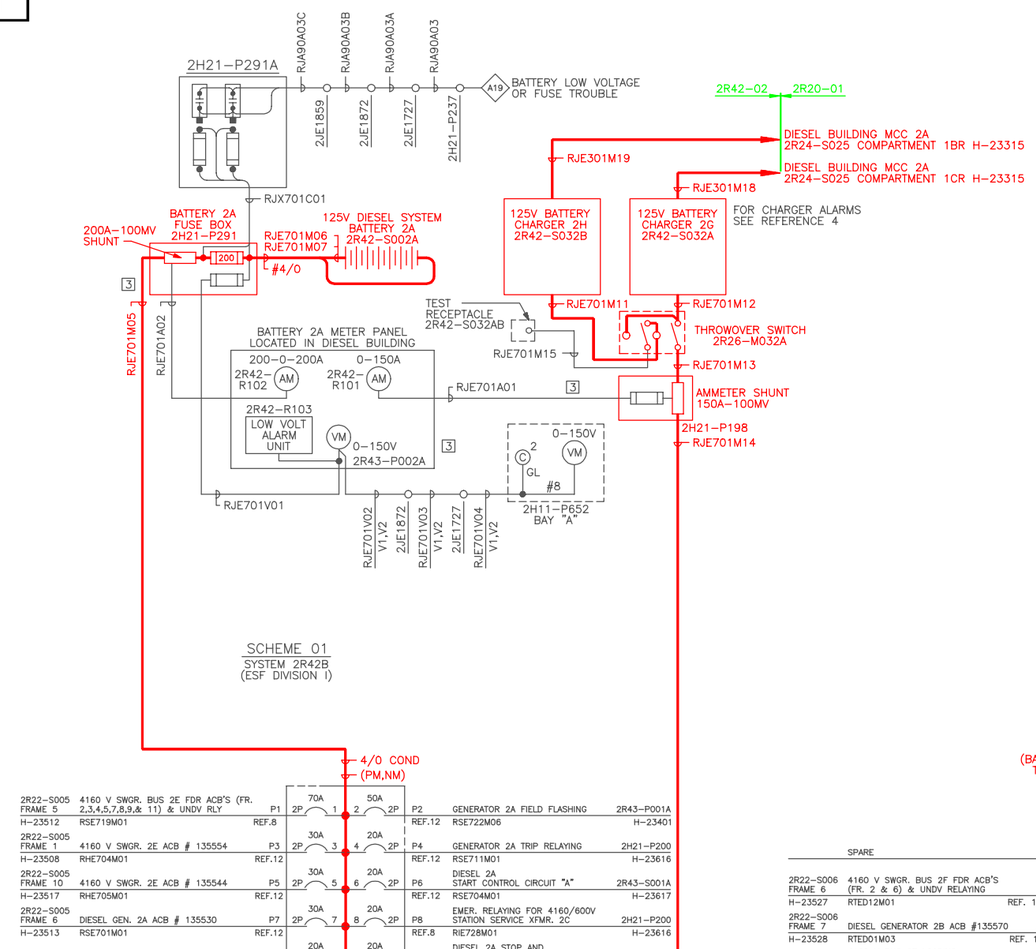
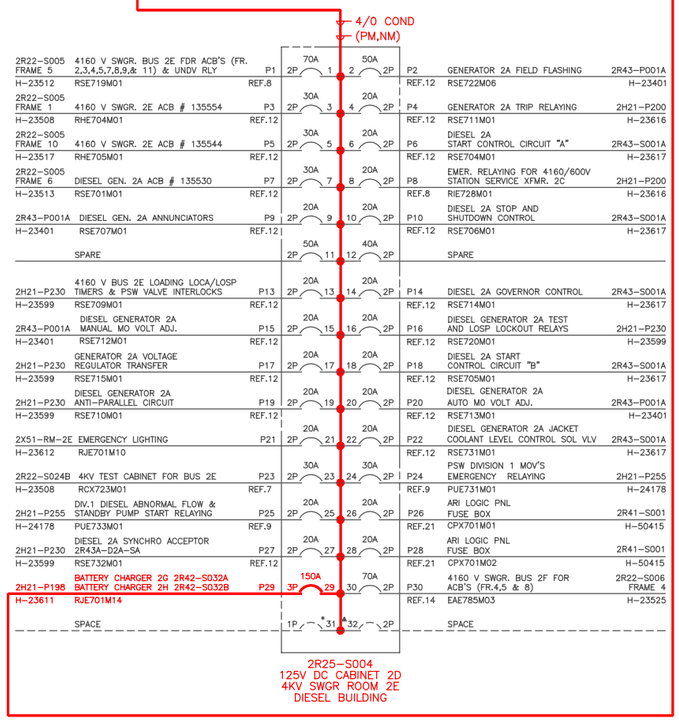
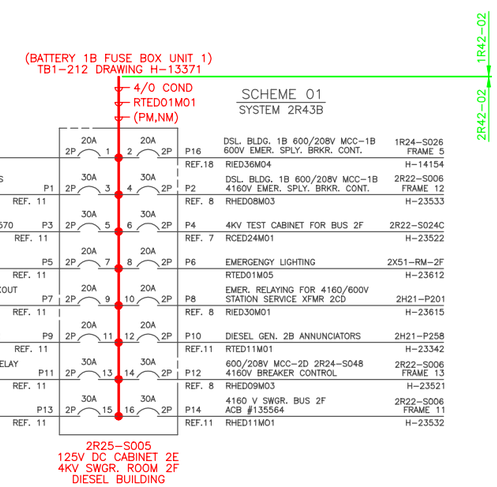


SCHEME 01
SYSTEM 2R42B
(ESF DIVISION I)



* IN ORDER TO INSTALL A NEW BREAKER IN SLOT 31, A BREAKER STAB FROM THE BUSS BAR WILL NEED TO BE INSTALLED.

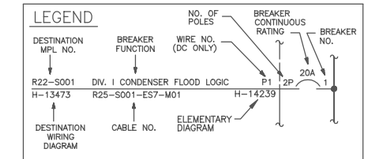
▲ A TWO POLE BREAKER WILL NOT FIT HERE AS THE LAST STAB FOR THE THREE POLE BREAKER (EXISTING) WAS REVERSED TO ALLOW THREE POLE BKR. TO BE INSTALLED AND THE LAST STAB IS MISSING (+) AT THIS TIME ONLY A SINGLE POLE BKR. CAN BE INSTALLED.



NOTES (CONT)

6. DIESEL SYSTEM BATTERIES (2R24-S002A & 2R24-S002C) ARE C & D TYPE KCR-11 (S-44077). BATTERY RACKS ARE C & D TYPE RD-1659 (S-44078 & S-44079).

LEGEND



- ALL BREAKERS OR SPACES IN THE PANEL WILL BE ACCOUNTED FOR.
- BREAKERS WITH NO CABLES CONNECTED TO THEM WILL BE IDENTIFIED AS "SPARE".
- SPACES WITH NO BREAKER WILL BE IDENTIFIED WITH A DASHED LINE TO SIGNIFY AVAILABILITY FOR FUTURE USE AND IDENTIFIED AS "SPACE".
- ALL TWO POLE D C BREAKERS WILL BE COUNTED AS 1 POSITION FOR BREAKER NUMBERING PURPOSES

REFERENCES:

1. B-23371 — 125V DC EMERGENCY STATION SERVICE SYSTEM 2R42B
2. H-23611 — WIRING DIAGRAM DIESEL BLDG. METERING PANELS AND CHARGERS
3. A-27001 — RACEWAY AND CABLE NUMBERING SYSTEM
4. H-23406 — ELEMENTARY-INVERT AND CHARGER ALARMS SYS 2R20P, 2R42A, B & E
5. H-23357 — SINGLE LINE DIAGRAM 2R22-S005 AND S006
6. H-23358 — SINGLE LINE DIAGRAM 2R22-S007
7. H-23624-H-23629 — NORMAL STATION SERVICE 4160V ELEMENTARY DIAGRAM 2R20B
8. H-23668-H-23670 — EMERGENCY STATION SERVICE ELEMENTARY DIAGRAM 2R20M
9. H-23695-H-23697 — PLANT SERVICE WATER MO VALVES ELEMENTARY DIAGRAM 2P41
10. H-23698-H-23700 — PLANT SERVICE WATER ELEMENTARY DIAGRAM 2P41
11. H-23773-H-23779 — DIESEL GENERATOR 2B ELEMENTARY DIAGRAM 2R43B
12. H-23801-H-23807 — DIESEL GENERATOR 2A ELEMENTARY DIAGRAM 2R43A
13. H-23811-H-23817 — DIESEL GENERATOR 2C ELEMENTARY DIAGRAM 2R43C
14. H-27635-H-27657 — RHR ELEMENTRAY DIAGRAMS 2E11
15. H-27970-H-27980 — REMOTE SHUTDOWN ELEMENTARY DIAGRAM 2C82
16. H-27796-H-27798 — REACTOR BUILDING CHILLED WATER ELEMENTARY DIAGRAM 2P64
17. H-27516-H-27518 — CONTROL ROD DRIVE ELEMENTARY DIAGRAM 2C11B
18. H-14239 — UNIT 1, 1B DIESEL GENERATOR ELEMENTARY DIAGRAM 1R43B
19. H-23587 H-23588 — DIESEL GENERATOR CONTACT TABULATION 2R43
20. H-23371 SH.2 — 125V DC EMERGENCY STATION SERVICE SYSTEM 2R25-S006
21. H-50409 H-50414 — ELEMENTARY DIAGRAM ATWS - ARI SYSTEM 2C11C
22. H-23612 — WIRING DIAGRAM FOR 125 VDC EMERG STA. SERV. CABINETS 2R25-S004, -S005, AND -S006.
23. A-20153 — LOAD LIST FOR 125 VDC CAB. 2D 2R25-S004
24. A-20154 — LOAD LIST FOR 125 VDC CAB. 2E 2R25-S005
25. A-20155 — LOAD LIST FOR 125 VDC CAB. 2F 2R25-S006

NOTES:

1. CABLES BEGINNING WITH RJ ARE SOURCED AGAINST THIS PLAN. OTHER CABLES ARE SOURCED TO SYSTEMS AS IDENTIFIED.
2. CABLES ASSOCIATED WITH DIESEL "1B" MUST BE ROUTED IN SEPARATE RACEWAYS FROM ESS I (DIESEL 2A) AND ESS II (DIESEL 2C). THESE CABLES ARE IDENTIFIED BY CABLE SCHEME CODE "RT".
3. PANEL OR ENCLOSURE TO BE FURNISHED BY CUSTOM ENGINEERING.
4. SEE DRAWINGS B-50507 THRU B-50547 FOR INFORMATION ON FUSED APPENDIX "R" CIRCUITS SUPPLIED FROM DISTRIBUTION CABS. 2R25-S004, -S005 & -S006 WHICH HAVE DOWNSTREAM FUSE SUBSTITUTIONS TO IMPROVE COORDINATION.
5. REFER TO THE MASTER FUSE LIST FOR FUSE DESIGN INFORMATION.

LICENSE RENEWAL DOCUMENT

BOUNDARY DIAGRAM NO.:2R42-B02-01
FUNCTION(S) NO.: 2R42-02
PREPARED BY: MARK CRISLER
DATE: 4/16/98
REVIEWED BY: RENEE RITCHEY
DATE: 4/28/98

Revision: A | Date: 11-18-99
APPROVED. ISSUED PER LICENSE RENEWAL BOUNDARY PACKAGES. DRAWING CREATED FROM H-23371 SH.1, REV.24; BY TRM.

BY	CHK'D	APPR.1
TRM	RBR	ASK

MPL NO. 2R25 | ACAD14 | HL2337101

SOUTHERN COMPANY

LICENSE RENEWAL SCREENING FOR INFORMATION ONLY

EDWIN I. HATCH NUCLEAR PLANT UNIT No.2
SINGLE LINE DIAGRAM-125V DC EMERGENCY STATION SERVICE-SYSTEM 2R42B AND 2R43B
MPL'S 2R25-S004 AND 2R25-S005

DRAWN	DESIGNED	LOCATION	DOCUMENT NUMBER	REVISION
TRM	LCF	10-502	HL-23371 SHEET 1	A
DATE	SCALE None			