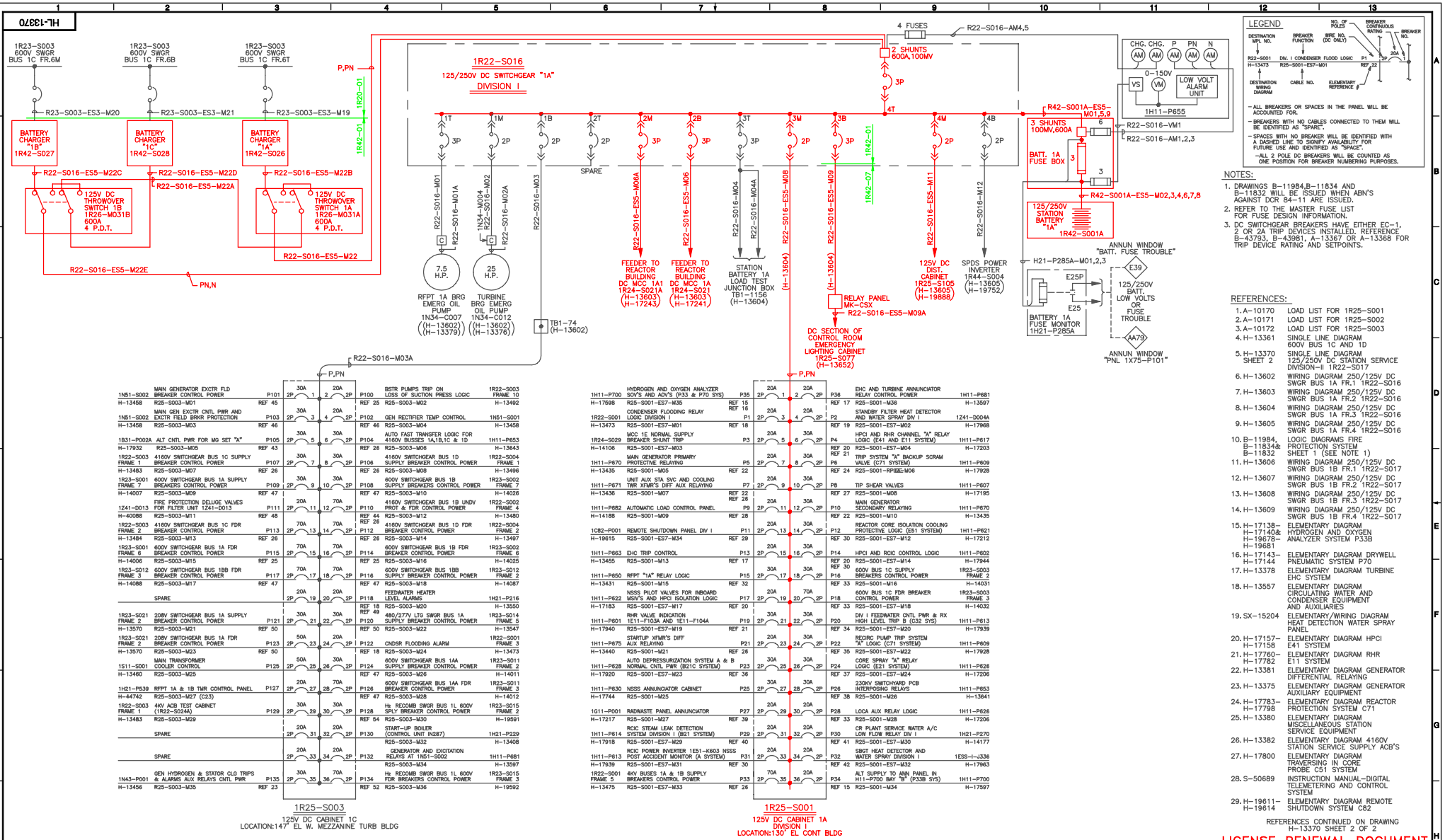
HL-13370



1N51-S002 H-13458	MAIN GENERATOR EXCTR FLD BREAKER CONTROL POWER R25-S003-M01	P101 REF 45	2P	30A 1	2	20A 2P	P100 REF 25	BSTR PUMPS TRIP ON LOSS OF SUCTION PRESS LOGIC R25-S003-M02	1R22-S003 FRAME 10 H-13492
1N51-S002 H-13458	MAIN GEN EXCTR CNTL PWR AND EXCTR FIELD BRKR PROTECTION R25-S003-M03	P103 REF 46	2P	30A 3	4	20A 2P	P102 REF 46	GEN RECTIFIER TEMP CONTROL R25-S003-M04	1N51-S001 H-13458
1B31-P002A H-17932	ALT CNTL PWR FOR MG SET "A" R25-S003-M05	P105 REF 43	2P	30A 5	6	20A 2P	P104 REF 26	AUTO FAST TRANSFER LOGIC FOR 4160V BUSSES 1A,1B,1C & 1D R25-S003-M06	1H11-P653 H-13643
1R22-S003 FRAME 1 H-13483	4160V SWITCHGEAR BUS 1C SUPPLY BREAKER CONTROL POWER R25-S003-M07	P107 REF 26	2P	30A 7	8	30A 2P	P106 REF 26	4160V SWITCHGEAR BUS 1D SUPPLY BREAKER CONTROL POWER R25-S003-M08	1R22-S004 FRAME 1 H-13496
1R23-S001 FRAME 7 H-14007	600V SWITCHGEAR BUS 1A SUPPLY BREAKERS CONTROL POWER R25-S003-M09	P109 REF 47	2P	30A 9	10	30A 2P	P108 REF 47	600V SWITCHGEAR BUS 1B SUPPLY BREAKERS CONTROL POWER R25-S003-M10	1R23-S002 FRAME 7 H-14026
1Z41-D013 H-40088	FIRE PROTECTION DELUGE VALVES FDR FILTER UNIT 1Z41-D013 R25-S003-M11	P111 REF 48	2P	20A 11	12	70A 2P	P110 REF 44 REF 26	4160V SWITCHGEAR BUS 1B UNDV PROT & FDR CONTROL POWER R25-S003-M12	1R22-S002 FRAME 4 H-13480
1R22-S003 FRAME 2 H-13484	4160V SWITCHGEAR BUS 1C FDR BREAKER CONTROL POWER R25-S003-M13	P113 REF 26	2P	70A 13	14	70A 2P	P112 REF 26	4160V SWITCHGEAR BUS 1D FDR BREAKER CONTROL POWER R25-S003-M14	1R22-S004 FRAME 2 H-13497
1R23-S001 FRAME 8 H-14006	600V SWITCHGEAR BUS 1A FDR BREAKER CONTROL POWER R25-S003-M15	P115 REF 25	2P	70A 15	16	70A 2P	P114 REF 25	600V SWITCHGEAR BUS 1B FDR BREAKER CONTROL POWER R25-S003-M16	1R23-S002 FRAME 8 H-14025
1R23-S012 FRAME 3 H-14088	600V SWITCHGEAR BUS 1BB FDR BREAKER CONTROL POWER R25-S003-M17	P117 REF 47	2P	70A 17	18	70A 2P	P116 REF 47	600V SWITCHGEAR BUS 1BB SUPPLY BREAKER CONTROL POWER R25-S003-M18	1R23-S012 FRAME 2 H-14087
	SPARE		2P	20A 19	20	20A 2P	P118 REF 18	FEEDWATER HEATER LEVEL ALARMS R25-S003-M20	1H21-P216 H-13550
1R23-S021 FRAME 2 H-13570	208V SWITCHGEAR BUS 1A SUPPLY BREAKER CONTROL POWER R25-S003-M21	P121 REF 50	2P	30A 21	22	30A 2P	P120 REF 50	480/277V LTG SWGR BUS 1A SUPPLY BREAKER CONTROL POWER R25-S003-M22	1R23-S014 FRAME 5 H-13547
1R23-S021 FRAME 2 H-13570	208V SWITCHGEAR BUS 1A FDR BREAKER CONTROL POWER R25-S003-M23	P123 REF 50	2P	50A 23	24	20A 2P	P122 REF 18	CNDSR FLOODING ALARM R25-S003-M24	1R22-S001 FRAME 3 H-13473
1S11-S001 H-13460	MAIN TRANSFORMER COOLER CONTROL R25-S003-M25	P125 REF 47	2P	50A 25	26	30A 2P	P124 REF 47	600V SWITCHGEAR BUS 1AA SUPPLY BREAKER CONTROL POWER R25-S003-M26	1R23-S011 FRAME 2 H-14011
1H21-P539 H-44742	RFPT 1A & 1B TMR CONTROL PANEL R25-S003-M27 (C23)	P127 REF 47	2P	20A 27	28	70A 2P	P126 REF 47	600V SWITCHGEAR BUS 1AA FDR BREAKER CONTROL POWER R25-S003-M28	1R23-S011 FRAME 3 H-14012
1R22-S003 FRAME 1 H-13483	4KV ACB TEST CABINET (1R22-S024A) R25-S003-M29	P129 REF 54	2P	30A 29	30	30A 2P	P128 REF 54	Hz RECOMB SWGR BUS 1L 600V SPLY BREAKER CONTROL POWER R25-S003-M30	1R23-S015 FRAME 2 H-19591
	SPARE		2P	20A 31	32	20A 2P	P130	START-UP BOILER (CONTROL UNIT IN287) R25-S003-M32	1H21-P229 H-13408
	SPARE		2P	20A 33	34	20A 2P	P132	GENERATOR AND EXCITATION RELAYS AT 1N51-S002 R25-S003-M34	1H11-P681 H-13597
1N43-P001 H-13456	GEN HYDROGEN & STATOR CLG TRIPS & ALARMS AUX RELAYS CNTL PWR R25-S003-M35	P135 REF 23	2P	30A 35	36	70A 2P	P134 REF 52	Hz RECOMB SWGR BUS 1L 600V FDR BREAKERS CONTROL POWER R25-S003-M36	1R23-S015 FRAME 3 H-19592

1R25-S003
125V DC CABINET 1C
LOCATION:147' EL W. MEZZANINE TURB BLDG

1H11-P700 H-17598	HYDROGEN AND OXYGEN ANALYZER SOV'S AND AOV'S (P33 & P70 SYS) R25-S001-ES7-M35	P35 REF 15 REF 16	2P	20A 1	2	20A 2P	P36 REF 17	EHC AND TURBINE ANNUNCIATOR RELAY CONTROL POWER R25-S001-M36	1H11-P681 H-13597
1R22-S001 H-13473	CONDENSER FLOODING RELAY LOGIC DIVISION I R25-S001-ES7-M01	P1 REF 18	2P	20A 3	4	20A 2P	P2 REF 19	STANDBY FILTER HEAT DETECTOR AND WATER SPRAY DIV I R25-S001-M02	1Z41-D004A H-17968
1R24-S029 H-14106	MCC 1E NORMAL SUPPLY BREAKER SHUNT TRIP R25-S001-ES7-M03	P3	2P	20A 5	6	30A 2P	P4 REF 20 REF 21	HPCI AND RHR CHANNEL "A" RELAY LOGIC (E41 AND E11 SYSTEM) R25-S001-ES7-M04	1H11-P617 H-17203
1H11-P670 H-13435	MAIN GENERATOR PRIMARY PROTECTIVE RELAYING R25-S001-M05	P5 REF 22	2P	20A 7	8	30A 2P	P6 REF 24	TRIP SYSTEM "A" BACKUP SCRAM VALVE (C71 SYSTEM) R25-S001-RPⅢ-M06	1H11-P609 H-17928
1H11-P671 H-13436	UNIT AUX STA SVC AND COOLING TWR XFMR'S DIFF AUX RELAYING R25-S001-M07	P7 REF 22 REF 26	2P	20A 9	10	30A 2P	P8 REF 27	TIP SHEAR VALVES R25-S001-M08	1H11-P607 H-17195
1H11-P682 H-14188	AUTOMATIC LOAD CONTROL PANEL R25-S001-M09	P9 REF 28	2P	20A 11	12	30A 2P	P10 REF 22	MAIN GENERATOR SECONDARY RELAYING R25-S001-M10	1H11-P670 H-13435
1C82-P001 H-19615	REMOTE SHUTDOWN PANEL DIV I R25-S001-ES7-M34	P11 REF 29	2P	20A 13	14	30A 2P	P12 REF 30	REACTOR CORE ISOLATION COOLING PROTECTIVE LOGIC (E51 SYSTEM) R25-S001-M12	1H11-P621 H-17212
1H11-P683 H-13455	EHC TRIP CONTROL R25-S001-M13	P13 REF 17	2P	20A 15	16	30A 2P	P14 REF 20 REF 30	HPCI AND RCIC CONTROL LOGIC R25-S001-ES7-M14	1H11-P602 H-17944
1H11-P650 H-13431	RFPT "1A" RELAY LOGIC R25-S001-M15	P15 REF 32	2P	30A 17	18	30A 2P	P16 REF 33	600V BUS 1C SUPPLY BREAKERS CONTROL POWER R25-S001-M16	1R23-S003 FRAME 2 H-14031
1H11-P622 H-17183	NSSS PILOT VALVES FOR INBOARD MSIV'S AND HPCI ISOLATION LOGIC R25-S001-ES7-M17	P17 REF 20	2P	20A 19	20	70A 2P	P18 REF 33	600V BUS 1C FDR BREAKER CONTROL POWER R25-S001-M18	1R23-S003 FRAME 3 H-14032
1H11-P601 H-17940	RHR VALVE INDICATION 1E11-F103A AND 1E11-F104A R25-S001-ES7-M19	P19 REF 21	2P	30A 21	22	30A 2P	P20 REF 34	DIV I FEEDWATER CNTL PWR & RX HIGH LEVEL TRIP B (C32 SYS) R25-S001-ES7-M20	1H11-P613 H-17939
1H11-P675 H-13440	STARTUP XFMR'S DIFF AUX RELAYING R25-S001-ES7-M21	P21 REF 26	2P	20A 23	24	30A 2P	P22 REF 35	RECIRC PUMP TRIP SYSTEM "A" LOGIC (C71 SYSTEM) R25-S001-ES7-M22	1H11-P609 H-17926
1H11-P628 H-17920	AUTO DEPRESSURIZATION SYSTEM A & B NORMAL CNTL PWR (B21C SYSTEM) R25-S001-ES7-M23	P23 REF 36	2P	30A 25	26	30A 2P	P24 REF 37	CORE SPRAY "A" RELAY LOGIC (E21 SYSTEM) R25-S001-ES7-M24	1H11-P626 H-17206
1H11-P630 H-17744	NSSS ANNUNCIATOR CABINET R25-S001-M25	P25	2P	30A 27	28	30A 2P	P26 REF 38	230KV SWITCHYARD PCB INTERPOSING RELAYS R25-S001-M26	1H11-P653 H-13641
1G11-P001 H-17217	RADWASTE PANEL ANNUNCIATOR R25-S001-M27	P27 REF 39	2P	20A 29	30	20A 2P	P28 REF 33	LOCA AUX RELAY LOGIC R25-S001-M28	1H11-P626 H-17206
1H11-P614 H-17918	RCIC STEAM LEAK DETECTION SYSTEM DIVISION I (B21 SYSTEM) R25-S001-ES7-M29	P29 REF 40	2P	20A 31	32	20A 2P	P30 REF 41	CR PLANT SERVICE WATER A/C LOW FLOW RELAY DIV I R25-S001-M30	1H21-P270 H-14177
1H11-P613 H-17939	RCIC POWER INVERTER 1E51-K603 NSSS POST ACCIDENT MONITOR (A SYSTEM) R25-S001-ES7-M31	P31 REF 30	2P	30A 33	34	20A 2P	P32 REF 42	SRGT HEAT DETECTOR AND WATER SPRAY DIVISION I R25-S001-ES7-M32	1ESS-I-J336 H-17963
1R22-S001 FRAME 5 H-13475	4KV BUSES 1A & 1B SUPPLY BREAKERS CONTROL POWER R25-S001-ES7-M33	P33 REF 26	2P	70A 35	36	20A 2P	P34 REF 15	ALT SUPPLY TO ANN PANEL IN H11-P700 BAY "B" (P33B SYS) R25-S001-M34	1H11-P700 H-17597

1R25-S001
125V DC CABINET 1A
DIVISION I
LOCATION:130' EL CONT BLDG

BOUNDARY DIAGRAM NO.:1R42-B01-01

FUNCTION(S) NO.: 1R42-01, 1R42-07

PREPARED BY: Mark Crisler
DATE: 04/20/98
REVIEWED BY: Renee Ritchey
DATE: 04/28/98

Revision: A	Date: 11-17-99

APPROVED. ISSUED PER LICENSE RENEWAL BOUNDARY PACKAGES. DRAWING CREATED FROM H-13370, SHEET 1, REV. 52; BY BKN.

BY	DWG APPR	APPR
BKN	RBR	ASK

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 2 POLE DC BREAKERS WILL BE COUNTED AS ONE POSITION FOR BREAKER NUMBERING PURPOSES.

NOTES:

1. DRAWINGS B-11984,B-11834 AND B-11832 WILL BE ISSUED WHEN ABN'S AGAINST DCR 84-11 ARE ISSUED.
2. REFER TO THE MASTER FUSE LIST FOR FUSE DESIGN INFORMATION.
3. DC SWITCHGEAR BREAKERS HAVE EITHER EC-1, 2 OR 2A TRIP DEVICES INSTALLED. REFERENCE B-43793, B-43981, A-13367 OR A-13368 FOR TRIP DEVICE RATING AND SETPOINTS.

REFERENCES:

1. A-10170	LOAD LIST FOR 1R25-S001
2. A-10171	LOAD LIST FOR 1R25-S002
3. A-10172	LOAD LIST FOR 1R25-S003
4. H-13361	SINGLE LINE DIAGRAM 600V BUS 1C AND 1D
5. H-13370 SHEET 2	SINGLE LINE DIAGRAM 125/250V DC STATION SERVICE DIVISION-II 1R22-S017
6. H-13602	WIRING DIAGRAM 250/125V DC SWGR BUS 1A FR.1 1R22-S016
7. H-13603	WIRING DIAGRAM 250/125V DC SWGR BUS 1A FR.2 1R22-S016
8. H-13604	WIRING DIAGRAM 250/125V DC SWGR BUS 1A FR.3 1R22-S016
9. H-13605	WIRING DIAGRAM 250/125V DC SWGR BUS 1A FR.4 1R22-S016
10. B-11984, B-11834& B-11832	LOGIC DIAGRAMS FIRE PROTECTION SYSTEM SHEET 1 (SEE NOTE 1)
11. H-13606	WIRING DIAGRAM 250/125V DC SWGR BUS 1B FR.1 1R22-S017
12. H-13607	WIRING DIAGRAM 250/125V DC SWGR BUS 1B FR.2 1R22-S017
13. H-13608	WIRING DIAGRAM 250/125V DC SWGR BUS 1B FR.3 1R22-S017
14. H-13609	WIRING DIAGRAM 250/125V DC SWGR BUS 1B FR.4 1R22-S017
15. H-17138- H-17140& H-19678- H-19681	ELEMENTARY DIAGRAM HYDROGEN AND OXYGEN ANALYZER SYSTEM P33B
16. H-17143- H-17144	ELEMENTARY DIAGRAM DRYWELL PNEUMATIC SYSTEM P70
17. H-13378	ELEMENTARY DIAGRAM TURBINE EHC SYSTEM
18. H-13557	ELEMENTARY DIAGRAM CIRCULATING WATER AND CONDENSER EQUIPMENT AND AUXILIARIES
19. SX-15204	ELEMENTARY/WIRING DIAGRAM HEAT DETECTION WATER SPRAY PANEL
20. H-17157- H-17158	ELEMENTARY DIAGRAM HPCI E41 SYSTEM
21. H-17760- H-17762	ELEMENTARY DIAGRAM RHR E11 SYSTEM
22. H-13381	ELEMENTARY DIAGRAM GENERATOR DIFFERENTIAL RELAYING
23. H-13375	ELEMENTARY DIAGRAM GENERATOR AUXILIARY EQUIPMENT
24. H-17783- H-17798	ELEMENTARY DIAGRAM REACTOR PROTECTION SYSTEM C71
25. H-13380	ELEMENTARY DIAGRAM MISCELLANEOUS STATION SERVICE EQUIPMENT
26. H-13382	ELEMENTARY DIAGRAM 4160V STATION SERVICE SUPPLY ACB'S
27. H-17800	ELEMENTARY DIAGRAM TRAVERSING IN CORE PROBE C51 SYSTEM
28. S-50689	INSTRUCTION MANUAL-DIGITAL TELEMETERING AND CONTROL SYSTEM
29. H-19611- H-19614	ELEMENTARY DIAGRAM REMOTE SHUTDOWN SYSTEM C82

REFERENCES CONTINUED ON DRAWING H-13370 SHEET 2 OF 2

LICENSE RENEWAL DOCUMENT

MPL NO. 1R22, 1R25 | ACAD14 | HL1337001

SOUTHERN COMPANY

LICENSE RENEWAL SCREENING FOR INFORMATION ONLY

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
SINGLE LINE DIAGRAM — 125/250V DC STATION SERVICE DIVISION I 1R22-S016
MPL'S 1R25-S001 AND 1R25-S003

DRAWN	DESIGNED	LOCATION	DOCUMENT NUMBER	REVISION
BKN	LCF	10-502	HL-13370 SHEET 1 OF 2	A
DATE	DATE			
	None			