HL-23369 SH.2

TO DISTRIBUTION PANEL 2R25-S036 BREAKER 27 H-23369 SHEET 1

RKE701M13

NOTE 6

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FUSE BOX 2R20N-P001

2R26-M002 NOTE 7

RKE701M16

RKE701M10*

2H11-P619	JET PUMP FLOW INSTRUMENTATION		20A 1P 1	2 20A 1P		WASTE GAS TREATMENT BLDG AIR HANDLING UNIT CONTROL	2H11-P700
H-27830	BEX701M01	REF 33			REF 47	NVX708M01	H-27966
2H11-P658	GENERATOR #2 WATTHOUR METER		20A 1P 3	4 20A 1P		MAIN GEN. TEMP. MONITORING CNTL (2N41)	2H11-P703
H-23468	RSE722M01	REF 18			REF 64	NNX709M04	H-52161
2H11-P700	TURB BLDG LEAK DETECTION,INSTR AIR LP LOGIC,DRYWELL PNEU SYS,RCDR'S		20A 1P 5	6 20A 1P		IND VLV & RM CLR CNTL FOR 2B21,2D11, 2E41,2T41,2P33 & 2P70 SYS	2H11-P700
H-27966	PME707M01	REF 26			REF 13	PXE703M01	H-27966
2H11-P602	RX VENT VALVES 2B21-F003 & FO04		20A 1P 7	8 20A 1P		IND RCDR & VLV CNTL FOR 2C11,2B21 & 2C51 SYS	2H11-P603
H-27948	AAE712M01	REF 30			REF 37	CBX701M01	H-27951
2D21-P600	AREA RADIATION MONITORING		20A 1P 9	10 20A 1P		RX BLDG HVAC 2T41,2P42 SYS, PRI CNMT PURGE,& INERTING 2T48 SYS	2H11-P657
H-27865	DBX701M01	REF 50			REF 43	TBE701M01	H-27929
2H11-P650	IND RCDR & CNTL FOR 2N11,2P42 2N21,2N36,2N38,2P41,& 2N40 SYS		20A 1P 11	12 20A 1P		POWER SUPPLY TO BOP ANNUNCIATOR LOGIC CAB	2H21-P237
H-23429	RKX701M05*	REF 53				RKX701M04*	H-23580
2H11-P604	LOG RADIATION MONITORS & RECORDERS FOR 2D11 SYS		20A 1P 13	14 20A 1P		LOG COUNT RATE METER & OFFGAS PRETREAT BACKUP MONITOR	2H11-P604
H-27863	DAX703M05	REF 29			REF 29	DAX703M06	H-27863
2H11-P602	DRYWELL/TORUS VACUUM BRKR TEST SOL'S 2T48 & DRWL DRN SUMP PMP RCDR 2D11		20A 1P 15	16 20A 1P		IND RCDR & CNTL FOR 2N21,2N32,2N36,2N38, 2N71,2P41,2P51,2P52 & 2E11 SYS	2H11-P656
H-27948	THX701M01	REF 45			REF 53	RKX701M07*	H-23467
1H11-P682	TELEMETERING PANEL 1H11-P682		20A 1P 17	18 20A 1P		SERVICE WATER PRELUBE SOL VALVES 2P41-F329A,B,C,& D	2H11-P681
H-14188	RKX701M09*	REF 54			REF 55	PUX739M01	H-23598
2H11-P657	CR, RB, DRYWELL/ TORUS VENTILATION		20A 1P 19	20 20A 1P		CORE SPRAY & RHR ISOL VLV'S	2H11-P601
H-27929	PEE701M01	REF 42			REF 39	EAX713M03	H-27943
2H11-P655	TURBINE RFPT, & CIRC WTR TEMP MONITORING		20A 1P 21	22 20A 1P		STEAM LEAK DETECTION IND & HPCI ISOLATION FOR 2B21 SYSTEM	2H11-P614
H-23463	NBX799M01	REF 20			REF 32	BBE706M01	H-27826
2H11-P691	MULITINEST PWR SUPPLY FOR FOXBORO NEST 2T48-E/S-K603A		20A 1P 23	24 20A 1P		SOLENOID VALVES 2E11-F053A	2H11-P617
H-27376	THE713M02	REF 61			REF 39	EAE741M01	H-27868
2H11-P613	FLOW LVL & PRESS RCDR IND & CNTL FOR 2E11 SYS		20A 1P 25	26 20A 1P		OFF GAS SYSTEM INSTRUMENTATION & VALVES	2N62-P600
H-27956	EAE713M02	REF 39			REF 51	NSX701M02	H-27903
2H21-P227D	TEMP IND FOR 2N38 SYS		20A 1P 27	28 20A 1P		REMOTE SHUTDOWN PANEL CNTL PWR FOR 2E51 & 2E11 SYS	2C82-P001
H-23410	RKX701M06*	REF 56			REF 52	CKE705M01	H-27985
2H11-P601	GRAPHIC DISPLAY PANEL AND REACTOR NEUTRON MAPPING		20A 1P 29	30 20A 1P		MANUAL CONTROL ROD DRIVE SYSTEM 2C11A	2H11-P616
H-27943	AAX714M01	REF 30			REF 36	CAX701M01	H-27838
2H11-P612	AUTO SPEED CONTROLLER FOR MG SET "A"		20A 1P 31	32 20A 1P		MULTINEST PWR SPLY FOR FOXBORO NESTS 2X75-K648A & K653A	2H11-P605
H-27843	BGX711M01	REF 34			REF 28	THE721M01	H-24500
2P33-P001A	CONTROL LOGIC & RECORDERS FOR 2P33 SYS		20A 1P 33	34 20A 1P		H_2 & O_2 RCDR RADN IND & DRN SUMP PMP'S CNTL FOR 2P33,2D11 & 2T48 SYS	2H11-P689
H-24009	PDE709M01	REF 41			REF 25	PDE711M01	H-27954
2H11-P602	NSSS SYSTEM RESET LOGIC INBOARD ISOLATION VALVES		20A 1P 35	36 20A 1P		CONDENSER FLOW CONTROL INSTRUMENTATION AND VALVES	2H11-P662
H-27947	AAX713M01	REF 30			REF 22	NBX7ADM01	H-23644
			37	38 20A 1P		MAIN TURBINE TEMP MONITORS (2N40)	2N40-P001
					REF 64	NMX709M03	H-23897
2R26-M003	CROSSTIE TO INSTR BUS 2B		70A 3P 39	40 20A 1P		REACTOR BUILDING VENTILATION STACK GRAB SAMPLE PUMP AND VALVES	2D11-P601
	RKX701M14*				REF 29	DAX734M01	H-27224
			41	42 20A 1P		SPARE	
1R51-P001	COMMUNICATION TERMINAL CABINET 1A 1R51 SYS		50A 1P 43	44 20A 1P		COMMUNICATION TERMINAL CABINET 1B 1R51 SYSTEM	1R51-P002
H-13777	RYX726M01					RYX726M02	H-13777
2H11-P602	FEEDWATER LINE CHECK VALVES 2B21-F077A & B		20A 1P 45	46 20A 1P		RHR TORUS SUCTION VALVES ALT PWR TO 2C32-K620,2C32-R655	2H11-P601
H-27947	CJE715M01	REF 38			REF 63	EAE795M06	H-27943
	SPARE		20A 1P 47	48 20A 1P		CONTROL ROOM RX BLDG DRYWELL/TORUS VENTILATION	2H11-P622
					REF 30	AAE706M09	H-27823

2R25-S064
120/208V DISTRIBUTION CABINET 2B
INSTRUMENT BUS 2A
130' CONTROL BUILDING UNIT 2
ANNUNCIATOR LOGIC ROOM
SCHEME 2R20N-01
SEE NOTE #1

RKX701M11*

NOTE 6

2R26-M003 NOTE 8

TO DISTRIBUTION PANEL 2R25-S037 BREAKER 28 H-23369 SHEET 1

RKE802M06

NOTE 6

2R26-M004 NOTE 7

RKE802M07*

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FUSE BOX 2R20N-P002

RKE802M10

2H11-P600	RADIATION MONITORING RECORDERS & LINE PURGE		20A 1P 1	2 20A 1P		RX BLDG HVAC (2T41) & PRI CNMT PURGE & INERTING (2T48) SYS	2H11-P654
H-27866	DAX801M01	REF 29			REF 43	TBE802M01	H-27961
2H11-P682	LOOSE PARTS MONITORING SYS (2L52) FOR RECIRC PMPS 2B31-C001A & B		20A 1P 3	4 20A 1P		INSTR AIR LOW PRESS LOGIC & DRYWELL PNEUMATIC SYS	2H11-P700
H-27935	LDX802M19	REF 46			REF 26	PME802M01	H-27963
2H11-P702	EXCESS FLOW CHECK VALVE RESET SYS 2L50		20A 1P 5	6 20A 1P		TEMP RECORDERS FOR SAFETY/ BLOWDOWN VALVES 2B21 SYSTEM	2H11-P614
H-27962	LAX821M01	REF 49			REF 31	BAE803M01	H-27826
2H11-P605B	MULTINEST PWR SPLY FOR FOXBORO NESTS 2X75-K648B & K653B		20A 1P 7	8 20A 1P		FLOW LEVEL,PRESS RCDR,IND,& VALVE CONTROLLERS FOR 2E11 SYSTEM	2H11-P612
H-24502	THE822M01	REF 28			REF 39	EAE813M05	H-27843
	SPARE		20A 1P 9	10 20A 1P		TURBINE BUILDING VENT SYSTEM,DRAINAGE PUMPS NITROGEN INERTING	2H11-P654
					REF 44	TDX801M01	H-27958
2H11-P656	PRESS IND FOR RHR SVC WTR & PLANT SVC WTR & RIVER LVL IND		20A 1P 11	12 20A 1P		LOG RADN MONITORS & RCDR FOR 2D11 SYSTEM	2H11-P604
H-23467	RKE802M04*	REF 19			REF 29	DAX803M04	H-27863
1R51-P003	COMMUNICATION TERMINAL CAB 1C 1R51 SYS		20A 1P 13	14 20A 1P		DRYWELL VACUUM BREAKER VALVE POSITION INDICATOR	2H11-P602
H-13775	RZX813M01				REF 45	THX801M02	H-27948
2H11-P654	CONTROL ROOM RX BLDG DRYWELL/TORUS VENTILATION		20A 1P 15	16 20A 1P		SPARE	
H-27961	PEE802M01	REF 42					
2H11-P623	TURB BLDG VENT SYS,DRAINAGE PUMPS & NITROGEN SYS		20A 1P 17	18 20A 1P		SPARE	
H-27824	AAE807M06	REF 30					
2H11-P630	POWER SUPPLY TO NSSS ANN LOGIC CABINET		20A 1P 19	20 20A 1P		FEEDWATER LINE CHECK VALVES 2B21-F076A & B	2H11-P601
H-27168	AAX805M01				REF 38	CJE814M01	H-27946
2H11-P601	VALVE CONTROL & INSTRUMENTATION FOR 2E11 & 2E21 SYS & HPCI TEST CIRCUIT		20A 1P 21	22 20A 1P		NUMAC RWM 2C11-J602	2H11-P616
H-27944	EAX813M01	REF 39			REF 36	CAX805M01	H-27838
2H11-P700	RX COOLANT SAMPLE – PRIMARY CONTAINMENT ISOL OUTBD VALVES		20A 1P 23	24 20A 1P		SPARE	
H-27963	PXE805M01	REF 13					
	SPARE		20A 1P 25	26 20A 1P		CONTROL LOGIC & RECORDERS FOR 2P33 SYSTEM	2P33-P001B
					REF 25	PDE810M01	H-24016
	SPARE		20A 1P 27	28 20A 1P		SOLENOID VALVES 2E11-F053B	2H11-P618
					REF 39	EAE864M01	H-27869
2H11-P601	NSSS SYSTEM RESET LOGIC OUTBOARD ISOLATION VALVES		20A 1P 29	30 20A 1P		REMOTE SHUTDOWN PANEL CNTL PWR FOR 2E51 & 2E11 SYS	2C82-P001
H-27946	AAX831M01	REF 30			REF 52	CKE801M01	H-27984
2H11-P602	CONDUCTIVITY RECORDER & DUMP VALVE SOLENOID CONTROL FOR 2G31 SYSTEM		20A 1P 31	32 20A 1P		RADIATION VENT & FISSION PROD RCDR FOR 2D11 & 2D21 SYSTEMS	2H11-P645
H-27948	GEX809M03	REF 29			REF 29	DAX805M01	H-27887
	SPARE		20A 1P 33	34 20A 1P		AUTO SPEED CONTROLLER FOR MG SET "B"	2H11-P612
					REF 35	BHX811M01	H-27843
2H11-P614	STEAM LEAK DETECTION IND AND HPCI ISOLATION FOR 2B21 SYSTEM		20A 1P 35	36 20A 1P		H_2 & O_2 RCDR,RADN,IND & DRN SUMP PMP CNTL FOR 2P33,2D11,2D11,& 2T48 SYS	2H11-P690
H-27826	BBE806M01	REF 32			REF 25	PDE812M01	H-27955
			37	38			
	SPARE		70A 3P 39	40 70A 3P		CROSSTIE TO INSTR BUS 2A	2R26-M005
						RKX802M08*	
			41	42			
	SPACE			43 44		SPACE	
	SPACE			45 46		SPACE	
	SPACE			47 48		SPACE	

2R25-S065
120/208V DISTRIBUTION CABINET 2C
INSTRUMENT BUS 2B
130' CONTROL BUILDING UNIT 2
RPS MG SET ROOM
SCHEME 2R20N-02
SEE NOTE #1

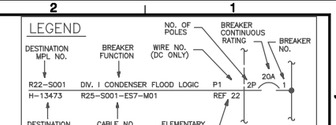
NOTE 6

2R26-M005 NOTE 8

REFERENCES CONTINUED:

57. A-20170 LOAD LIST FOR DPNL 2R25-S036
58. A-20171 LOAD LIST FOR DPNL 2R25-S037
59. A-20181 LOAD LIST FOR DPNL 2R25-S064
60. A-20182 LOAD LIST FOR DPNL 2R25-S065
61. H-27875 ELEM DIAG POST LOCA MONITORING INSTRUMENTATION SYSTEMS 2T48B, 2D11 AND 2A71B.
62. DELETED
63. H-27635– H-27657 ELEM DIAG RESIDUAL HEAT REMOVAL SYSTEM 2E11.
64. H-23890– MAIN GEN. TEMP. MONITORING SYS. N41 & 2N41 ELEM. DIAG.

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".
- EACH BREAKER SHOULD BE NUMBERED AND LOCATED ON THE VERTICAL BUS BASED ON THE NUMBER OF THE POLE POSITION ITS OPERATING LEVER OCCUPIES (FOR 3 POLES THE LEVER IS ON THE MIDDLE POLE, FOR 2 POLES IT IS THE TOP POLE WHEN INSTALLED ON LEFT SIDE AND BOTTOM POLE WHEN INSTALLED ON THE RIGHT SIDE). POLE POSITION NUMBERS ARE KNOWN BY COUNTING EACH POLE LEFT TO RIGHT, TOP TO BOTTOM.

FOR NOTES AND ADDITIONAL REFERENCES SEE DRAWING H-23369 SHEET 1

REFERENCES CONTINUED:

18. H-23381 ELEM DIAG–GENERATOR & MAIN XFMR PROTECTIVE RELAYING & METERING SYS 2S32
19. H-23633 ELEM DIAG–TURBINE & AUX SYS PRESSURE INSTRUMENTS
20. H-23634 ELEM DIAG–TURBINE & AUX SYS TEMPERATURE INSTRUMENTS SYS 2N21,2N32,2N34,2N71,2E11
21. H-23645 ELEM DIAG–TURBINE & AUX SYS FLOW PRESSURE & LEVEL INSTR'S SYS 2N21,2N32,2N34,2N38
22. H-23840 ELEM DIAG–AUXILIARY SYS 2N21
23. H-23872 ELEM DIAG–250V DC INVERTER SYS 2R44
24. H-23881 ELEM DIAG–DRYWELL FIRE DETECTION SYS 2T43
25. H-24007– H-24008 ELEM DIAG–HYDROGEN & OXYGEN ANALYZER SYS 2P33B
26. H-27233& H-27743– H-27744 SYS 2P70 ELEM DIAG–DRYWELL PNEUMATIC
27. H-27234 ELEM DIAG–SAFEGUARD EQUIP COOLING SYS 2T41B
28. H-27235 ELEM DIAG–PRIMARY CONTAINMENT PURGE & INERTING SYS 2T48B
29. H-27236& H-27621& H-27630 ELEM DIAG–PROCESS RADIATION MONITORING SYS 2D11
30. H-27452& H-27454& H-27457 ELEM DIAG–NUCLEAR STEAM SUPPLY SHUTOFF SYS 2A71
31. H-27465 ELEM DIAG–NUCLEAR BOILER PROCESS INSTRUMENT SYS 2B21A
32. H-27466 ELEM DIAG–STEAM LEAK DETECTION SYS 2B21B
33. H-27475 ELEM DIAG–JET PUMP INSTM SYS 2B21E
34. H-27485 ELEM DIAG–REACTOR RECIRC PUMP & MG SET "A" SYS 2B31
35. H-27494 ELEM DIAG–REACTOR RECIRC PUMP & MG SET "B" SYS 2B31
36. H-27502 ELEM DIAG–REACTOR MANUAL CONTROL SYS 2C11A
37. H-27516 ELEM DIAG–CONTROL ROD DRIVE HYD INSTRUMENT SYS 2C11B
38. H-27599 ELEM DIAG–PRIMARY CONTAINMENT ISOLATION SYS 2C61
39. H-27646& H-27648 ELEM DIAG–RESIDUAL HEAT REMOVAL SYS 2E11
40. H-27730 ELEM DIAG–REACTOR WATER CLEAN-UP SYS 2G31A
41. H-27747 ELEM DIAG–HYDROGEN & OXYGEN ANALYZER SYS 2P33B
42. H-27748 ELEM DIAG–REACTOR BUILDING SERVICE WATER SYS 2P41A
43. H-27756 ELEM DIAG–SAFEGUARD EQPT COOLING SYS 2T41B
44. H-27766 ELEM DIAG–LEAK DETECTION SYSTEM INSTRUMENT & DRAINAGE SUMPS 2T45
45. H-27776 ELEM DIAG–PRIMARY CONTAINMENT PURGE & INERTING SYS 2T48B
46. H-27780 ELEM DIAG–LOOSE PARTS MONITORING SYS 2L52
47. H-27782 ELEM DIAG–WASTE GAS TRTMT BLDG AIR COND SYS 2N62D
48. H-27789 ELEM DIAG–DRYWELL TO TORUS DIFFERENTIAL PRESS SYS 2T48D
49. H-27801 ELEM DIAG–EXCESS FLOW CHECK VALVE SYS 2L50
50. H-27805 ELEM DIAG–AREA RADIATION MONITORING SYS 2D21
51. H-27813 ELEM DIAG–OFF GAS SYS 2N62A
52. H-27970 ELEM DIAG–REMOTE SHUTDOWN SYS 2C82
53. H-23660 ELEM DIAG–MISC FL LVL PRESS, XMTRS,SWITCH MDLS,CONTROLLERS, ETC. SYSTEMS 2N11,2N21 & 2P41
54. H-23643 ELEM DIAG–AUTOMATIC LOAD CNTL (PSCC) SYSTEM COND & FW SYSTEM & MN TURBINE AUX SYSTEM TEMP & PRESSURE INST SYSTEM 2N11, 2N21,2N32,2N38,2N61 & 2N71
55. H-23700 ELEM DIAG–PLANT SERVICE WATER PUMPS SYSTEM 2P41
56. H-23641 ELEM DIAG–TURB & AUX SYSTEM–TEMPERATURE INST SYSTEM 2N11, 2N21,2N22,2N36,2N38 & 2N71

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MPL NO. 2R25 | ACAD14 | HL2336902

BOUNDARY DIAGRAM NO.:2C71-B02-02

FUNCTION(S) NO.: 2C71-02

PREPARED BY: Mark Crisler
DATE: 04/28/98
REVIEWED BY: Renee Ritchey
DATE: 05/12/98

Revision: A	Date: 11-12-99

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BY	CHK'D	APPR'L
ECB	GMC	ASK

SOUTHERN COMPANY

LICENSE RENEWAL SCREENING FOR INFORMATION ONLY

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
SINGLE LINE DIAGRAM
120/208V ESSENTIAL A.C. SYSTEM 2R20N
MPL'S 2R25-S064 AND 2R25-S065

DRAWN	DESIGNED	LOCATION	DOCUMENT NUMBER	REVISION
BKN	LCF	10-502	HL-23369	A
DATE	SCALE		SHEET 2 OF 2	
	None			