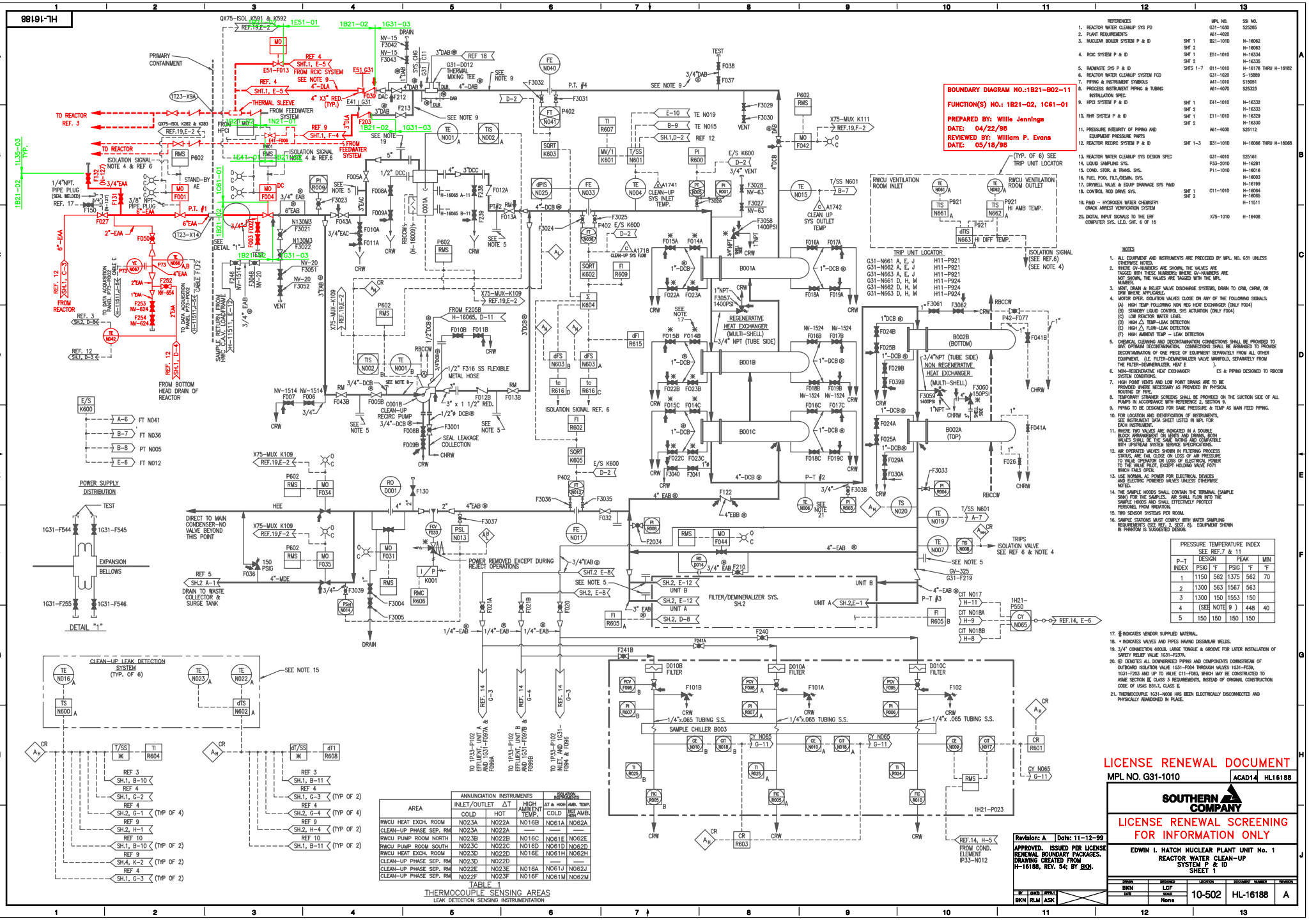
HL-16188



AREA	ANNUNCIATION INSTRUMENTS INLET/OUTLET ΔT COLD	HOT	HIGH AMBIENT TEMP.	ISOLATION INSTRUMENTS ΔT & HIGH AMB. TEMP. COLD	HIGH AMB.
RWCU HEAT EXCH. ROOM	N023A	N022A	N016B	N061A	N062A
CLEAN-UP PHASE SEP. RM	N023A	N022A	—	—	—
RWCU PUMP ROOM NORTH	N023B	N022B	N016C	N061E	N062E
RWCU PUMP ROOM SOUTH	N023C	N022C	N016D	N061D	N062D
RWCU HEAT EXCH. ROOM	N023D	N022D	N016E	N061H	N062H
CLEAN-UP PHASE SEP. RM	N023D	N022D	—	—	—
CLEAN-UP PHASE SEP. RM	N022E	N023E	N016A	N061J	N062J
CLEAN-UP PHASE SEP. RM	N022F	N023F	N016F	N061M	N062M

TABLE 1
THERMOCOUPLE SENSING AREAS
LEAK DETECTION SENSING INSTRUMENTATION

BOUNDARY DIAGRAM NO.:1B21-B02-11
FUNCTION(S) NO.: 1B21-02, 1C61-01
PREPARED BY: Willie Jennings
DATE: 04/22/98
REVIEWED BY: William P. Evans
DATE: 05/18/98

REFERENCES

	MPL NO.	SSI NO.
1. REACTOR WATER CLEANUP SYS PID	G31-1030	S25265
2. PLANT REQUIREMENTS	A61-4020	—
3. NUCLEAR BOILER SYSTEM P & ID SHT 1	B21-1010	H-16062
SHT 2		H-16063
4. RCIC SYSTEM P & ID SHT 1	E51-1010	H-16334
SHT 2		H-16335
SHTS 1-7		H-16176 THRU H-16182
5. RADWASTE SYS P & ID	G11-1010	H-16139
6. REACTOR WATER CLEANUP SYSTEM FCD	G31-1020	S-15889
7. PIPING & INSTRUMENT SYMBOLS	A41-1010	S15051
8. PROCESS INSTRUMENT PIPING & TUBING INSTALLATION SPEC.	A61-4070	S25323
9. HPCI SYSTEM P & ID SHT 1	E41-1010	H-16332
SHT 2		H-16333
10. RHR SYSTEM P & ID SHT 1	E11-1010	H-16329
SHT 2		H-16330
11. PRESSURE INTEGRITY OF PIPING AND EQUIPMENT PRESSURE PARTS	A61-4030	S25112
12. REACTOR RECIRC SYSTEM P & ID SHT 1-3	B31-1010	H-16066 THRU H-16068
13. REACTOR WATER CLEANUP SYS DESIGN SPEC	G31-4010	S25161
14. LIQUID SAMPLING SYS.	P33-2010	H-16281
15. COND. STOR. & TRANS. SYS.	P11-1010	H-16016
16. FUEL POOL FILT./DEMIN. SYS.		H-16003
17. DRYWELL VALVE & EQUIP DRAINAGE SYS P&ID		H-16199
18. CONTROL ROD DRIVE SYS. SHT 1	C11-1010	H-16064
SHT 2		H-16065
		H-11511
19. P&ID – HYDROGEN WATER CHEMISTRY CRACK ARREST VERIFICATION SYSTEM		
20. DIGITAL INPUT SIGNALS TO THE ERF COMPUTER SYS. LED. SHT. 6 OF 15	X75-1010	H-16408

NOTES

1. ALL EQUIPMENT AND INSTRUMENTS ARE PRECEDED BY MPL. NO. G31 UNLESS OTHERWISE NOTED.
2. WHERE OV-NUMBERS ARE SHOWN, THE VALVES ARE TAGGED WITH THESE NUMBERS; WHERE OV-NUMBERS ARE NOT SHOWN, THE VALVES ARE TAGGED WITH THE MPL NUMBER.
3. VENT, DRAIN & RELIEF VALVE DISCHARGE SYSTEMS, DRAIN TO CRW, CHRW, OR DRW WHERE APPLICABLE.
4. MOTOR OPER. ISOLATION VALVES CLOSE ON ANY OF THE FOLLOWING SIGNALS:
   (A) HIGH TEMP FOLLOWING NON REG HEAT EXCHANGER (ONLY F004)
   (B) STANDBY LIQUID CONTROL SYS ACTUATION (ONLY F004)
   (C) LOW REACTOR WATER LEVEL
   (D) HIGH △ TEMP–LEAK DETECTION
   (E) HIGH △ FLOW–LEAK DETECTION
   (F) HIGH AMBIENT TEMP – LEAK DETECTION
5. CHEMICAL CLEANING AND DECONTAMINATION CONNECTIONS SHALL BE PROVIDED TO GIVE OPTIMUM DECONTAMINATION. CONNECTIONS SHALL BE ARRANGED TO PROVIDE DECONTAMINATION OF ONE PIECE OF EQUIPMENT SEPARATELY FROM ALL OTHER EQUIPMENT. (I.E. FILTER–DEMINERALIZER VALVE MANIFOLD, SEPARATELY FROM THE FILTER–DEMINERALIZER, HEAT E) ES & PIPING DESIGNED TO RBCCW
6. NON–REGENERATIVE HEAT EXCHANGER SYSTEM CONDITIONS.
7. HIGH POINT VENTS AND LOW POINT DRAINS ARE TO BE PROVIDED WHERE NECESSARY AS PROVIDED BY PHYSICAL ROUTING OF PIPE.
8. TEMPORARY STRAINER SCREENS SHALL BE PROVIDED ON THE SUCTION SIDE OF ALL PUMPS IN ACCORDANCE WITH REFERENCE 2, SECTION 9.
9. PIPING TO BE DESIGNED FOR SAME PRESSURE & TEMP AS MAIN FEED PIPING.
10. FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS, SEE INSTRUMENT DATA SHEET LISTED IN MPL FOR EACH INSTRUMENT.
11. WHERE TWO VALVES ARE INDICATED IN A DOUBLE BLOCK ARRANGEMENT ON VENTS AND DRAINS, BOTH VALVES SHALL BE THE SAME RATING AND COMPATIBLE WITH UPSTREAM SYSTEM SERVICE SPECIFICATIONS.
12. AIR OPERATED VALVES SHOWN IN FILTERING PROCESS STATUS, ARE FAIL CLOSE ON LOSS OF AIR PRESSURE TO VALVE OPERATOR OR LOSS OF ELECTRICAL POWER TO THE VALVE PILOT, EXCEPT HOLDING VALVE F071 WHICH FAILS OPEN.
13. USE NORMAL AC POWER FOR ELECTRICAL DEVICES AND ELECTRIC POWERED VALVES UNLESS OTHERWISE NOTED.
14. THE SAMPLE HOODS SHALL CONTAIN THE TERMINAL (SAMPLE SINK) FOR THE SAMPLES. AIR SHALL FLOW INTO THE SAMPLE HOODS AND SHALL EFFECTIVELY PROTECT PERSONNEL FROM RADIATION.
15. TWO SENSOR SYSTEMS PER ROOM.
16. SAMPLE STATIONS MUST COMPLY WITH WATER SAMPLING REQUIREMENTS (SEE REF. 2, SECT. 8). EQUIPMENT SHOWN IN PHANTOM IS SUGGESTED DESIGN.

PRESSURE TEMPERATURE INDEX
SEE REF.7 & 11

P–T INDEX	DESIGN PSIG	°F	PEAK PSIG	°F	MIN °F
1	1150	562	1375	562	70
2	1300	563	1567	563	
3	1300	150	1553	150	
4	(SEE	NOTE	9)	448	40
5	150	150	150	150	

17. ⧗ INDICATES VENDOR SUPPLIED MATERIAL.
18. * INDICATES VALVES AND PIPES HAVING DISSIMILAR WELDS.
19. 3/4" CONNECTION 600LB. LARGE TONGUE & GROOVE FOR LATER INSTALLATION OF SAFETY RELIEF VALVE 1G31-F237A.
20. Ⓑ DENOTES ALL DOWNGRADED PIPING AND COMPONENTS DOWNSTREAM OF OUTBOARD ISOLATION VALVE 1G31-F004 THROUGH VALVES 1G31-F039, 1G31-F203 AND UP TO VALVE C11-F083, WHICH MAY BE CONSTRUCTED TO ASME SECTION III, CLASS 3 REQUIREMENTS, INSTEAD OF ORIGINAL CONSTRUCTION CODE OF USAS B31.7, CLASS E.
21. THERMOCOUPLE 1G31-N008 HAS BEEN ELECTRICALLY DISCONNECTED AND PHYSICALLY ABANDONED IN PLACE.

LICENSE RENEWAL DOCUMENT
MPL NO. G31-1010 ACAD14 HL16188

SOUTHERN COMPANY

LICENSE RENEWAL SCREENING FOR INFORMATION ONLY

Revision: A Date: 11-12-99

APPROVED. ISSUED PER LICENSE RENEWAL BOUNDARY PACKAGES. DRAWING CREATED FROM H-16188, REV. 34; BY BKN.

BY	CHK'D	APPR'D
BKN	RLM	ASK

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
REACTOR WATER CLEAN-UP
SYSTEM P & ID
SHEET 1

DRAWN	DESIGNED	LOCATION	DOCUMENT NUMBER	REVISION
BKN	LCF	10-502	HL-16188	A
DATE	SCALE None			