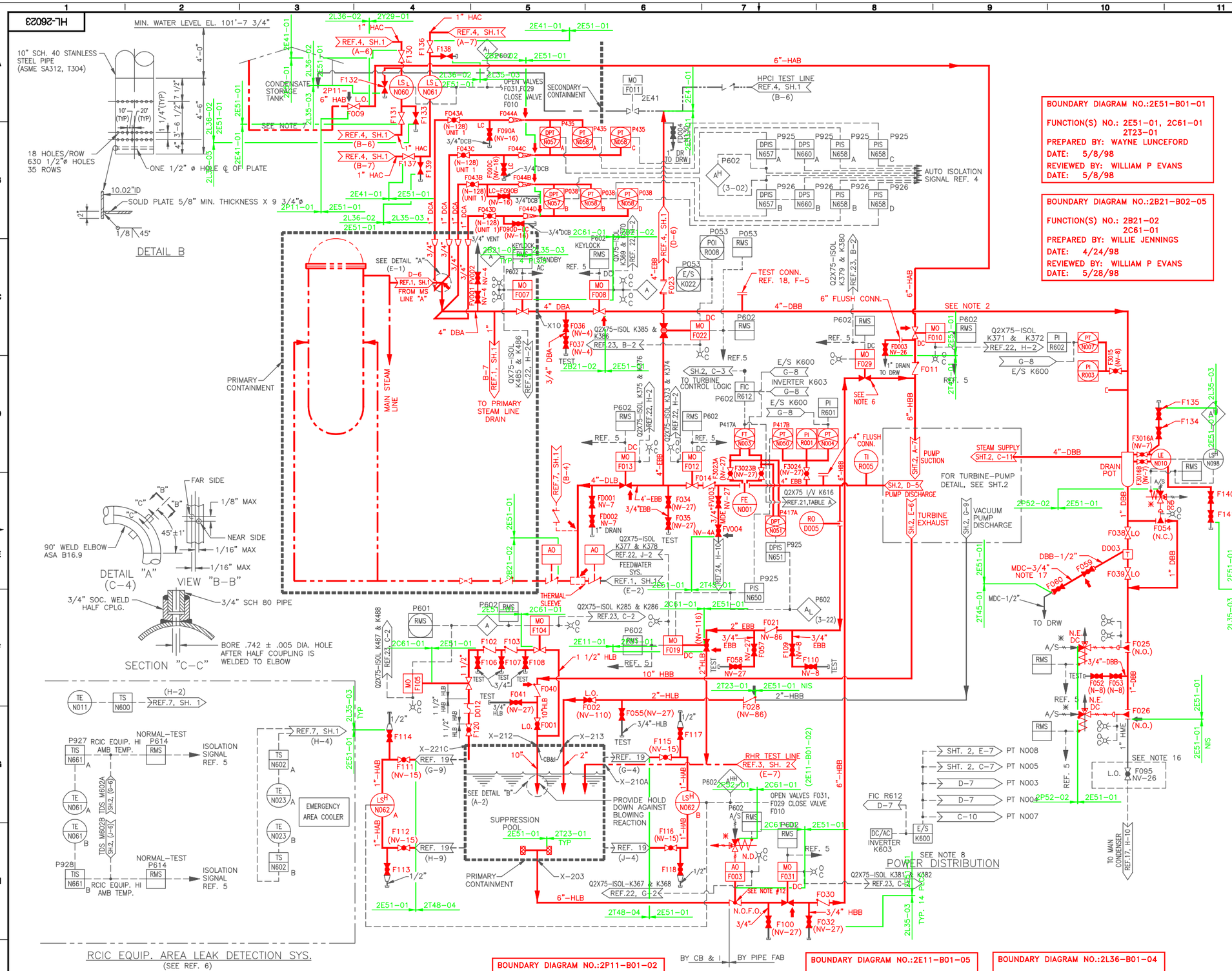

BOUNDARY DIAGRAM NO.:2E51-B01-01
FUNCTION(S) NO.: 2E51-01, 2C61-01, 2T23-01
PREPARED BY: WAYNE LUNCEFORD
DATE: 5/8/98
REVIEWED BY: WILLIAM P EVANS
DATE: 5/8/98

BOUNDARY DIAGRAM NO.:2B21-B02-05
FUNCTION(S) NO.: 2B21-02, 2C61-01
PREPARED BY: WILLIE JENNINGS
DATE: 4/24/98
REVIEWED BY: WILLIAM P EVANS
DATE: 5/28/98

BOUNDARY DIAGRAM NO.:2P11-B01-02
FUNCTION(S) NO.: 2E41-01, 2E51-01
PREPARED BY: WILLIAM P EVANS
DATE: 2/27/98
REVIEWED BY: BO ROSBERG
DATE: 2/27/98

BOUNDARY DIAGRAM NO.:2E11-B01-05
FUNCTION(S) NO.: 2E11-01
PREPARED BY: WILLIE JENNINGS
DATE: 2/2/98
REVIEWED BY: WILLIAM P EVANS
DATE: 5/5/98

BOUNDARY DIAGRAM NO.:2L36-B01-04
FUNCTION(S) NO.: 2L36-02
PREPARED BY: M D STEPHENS
DATE: 6/11/98
REVIEWED BY: WILLIE JENNINGS
DATE: 7/9/98

NOTES:

1. EQUIPMENT AND INSTRUMENTS ARE PREFIXED BY MPL NO. 2E51 UNLESS OTHERWISE NOTED.
2. SLOPE STEAM LINE DOWN ALL THE WAY FROM MAIN STEAM LINE TO DRAIN POT JUST AHEAD OF TURBINE.
3. WHERE GV NUMBERS ARE SHOWN, THE VALVES ARE TAGGED WITH THESE NUMBERS. WHERE GV NUMBERS ARE NOT SHOWN, THE VALVES ARE TAGGED WITH MPL NO.
4. INSTRUMENT LINE VALVING MUST COMPLY WITH INSTRUMENT PIPING STANDARDS, REF. 9.
5. ANY ADDITIONAL HIGH POINT VENTS AND LOW POINT DRAINS TO BE ADDED BY FIELD AS REQUIRED.
6. LOCATE VALVE F029 (ZONE) AS CLOSE AS POSSIBLE TO PUMP SUCTION LINE FROM CONDENSATE STORAGE.
7. REQUIRED TOTAL RESERVE STORAGE FOR RCIC SYSTEM AND HPCI SYSTEM, 100,000 GALLONS. THIS AMOUNT OF STORAGE SHALL BE CAPABLE OF BEING ISOLATED FROM SERVING OTHER SYSTEMS.
8. "A-C" POWER FOR RCIC INSTRUMENTS SHALL BE DERIVED FROM A "D-C" SOURCE SEPARATE FROM THAT WHICH SUPPLIES THE HPCI SYSTEM, VIA THE UNINTERRUPTIBLE "A-C" OR COMPARABLE "D-C" TO "A-C" CONVERSION SYSTEM.
9. FOR INTERLOCKING REQUIREMENTS AND AUTO VALVE ACTUATION SEE FUNCTIONAL CONTROL DIAGRAM, REF. 2.
10. PIPING SHOWN IN PHANTOM LEADING TO TURBINE C002 TO BE ARRANGED AND SUPPLIED BY TURBINE VENDOR.
11. THE BAROMETRIC CONDENSER AND VACUUM TANK SHALL BE LOCATED SUCH THAT IT'S WATER LEVEL IS BELOW THE BOTTOM OF THE TURBINE EXHAUST FLANGE.
12. VALVE AO-F003 SHALL BE LOCATED A MAXIMUM OF SIX FEET FROM THE NOZZLE OF THE TORUS, WITH ADEQUATE CLEARANCES FOR OPERATION OF THE VALVE AND VALVE OPERATOR.
13. FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS SEE INSTRUMENT DATA SHEET LISTED IN MPL FOR EACH INSTRUMENT.
14. FLUSHING CONNECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH MPL ITEM NO. 2A61-4020 SEC 9. TEMPORARY STRAINER SCREENS SHALL BE PROVIDED ON THE SUCTION SIDE OF ALL PUMPS IN ACCORDANCE WITH MPL ITEM NO. 2A61-4020 SEC 9.
15. VALVES ON THIS DWG ARE NUMBERED FD001 THRU FD020 FOR DRAIN VALVES FV001 THRU FV020 FOR VENT VALVES
16. THIS VALVE IS TO BE INSTALLED AFTER COMPLETION OF START-UP.
17. DESIGN EXCEPTION TO PIPING CLASS MDC; SCH. 160 PIPE TO BE USED IN PLACE OF SCH. 80 PIPE.

REFERENCES

		MPL NO.	SSI NO.
1. NUCLEAR BOILER SYS P&ID	SHT 1	2B21-1010	H-26000
	SHT 2		H-26001
2. NUCLEAR BOILER SYS FCD		2B21-1030	S-25154
3. RHR SYS P&ID	SHT 1	2E11-1010	H-26014
	SHT 2		H-26015
4. HPCI SYS P&ID	SHT 1	2E41-1010	H-26020
	SHT 2		H-26021
5. RCIC SYS FCD		2E51-1030	
6. NUCLEAR BOILER LEAK DETECTION SYSTEM		2A61-4040	S-25280
7. REACTOR WATER CLEAN-UP SYS P&ID	SHT 1	2G31-1010	H-26036
	SHT 2		H-26037
8. PIPING & INSTRUMENT SYMBOLS		A42-1010	
9. PROCESS INSTRUMENT PIPING AND TUBING INSTALLATION SPEC.		2A61-4070	S-25323
10. PLANT REQUIREMENTS		2A61-4020	S-25706
11. TURBINE CONTROL DWG.		2E51-C002	S-25238
12. PRESSURE INTEGRITY OF PIPING AND EQUIPMENT PRESSURE PARTS		2A61-4030	S-25112
13. TURBINE OUTLINE		2E51-C002	S-25221
14. HIGH PRESSURE COOLING INJECTION SYSTEM FCD		2E41-1030	
15. RCIC SYS DESIGN SPEC		2E51-4010	
16. RCIC SYS PD		2E51-1020	S-25171
17. MSR & HEATER VENTS AND SHELL DRAINS P&ID SH-2.		2N22-1010	H-21024
18. AUXILIARY STEAM P&ID		2P61-1010	H-26063
19. PRIMARY CONTAINMENT PURGE INERTING SYSTEM P&ID		2T48-1020	H-26084
20. ANNUNCIATOR SIGNALS TO TCS, I.E.D.		2X75-1010	H-26159
21. CLASS IE ANALOG SIGNAL CONVERSION/ ISOLATION SYSTEM I.E.D.		2X75-1010	H-26284
22. DIGITAL INPUT SIGNALS TO THE ERF COMPUTER SYS. SHT. 5 OF 15		2X75-1010	H-26167
23. DIGITAL INPUT SIGNALS TO THE ERF COMPUTER SYS. SHT 6 OF 15		2X75-1010	H-26175
24. REACTOR BLDG. FLOOR, EQUIPMENT & ROOF DRAINAGE SYSTEM DIAGRAM		2T45-1010	H-26075
25. RCIC SYS. DISCHARGE TO FEEDWATER & TEST LINE TO CONDENSATE STORAGE TANK			H-26845
26. C.C.I. – DRAG VALVE – 4 X 4, GLOBE 900 ANSI – R.C.I.C. VALVE			S-61276

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MPL NO. 2E51-1010 | ACAD14 | HL26023

SOUTHERN COMPANY

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Revision: A | Date: 1-7-2000

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EDWIN I. HATCH NUCLEAR PLANT UNIT No.2
RCIC SYSTEM
P&ID SHEET 1

BY	CHK'D	APPR
TRM	RLM	ASK

DRAWN	DESIGNED	LOCATION	DOCUMENT NUMBER	REVISION
TRM	LCF	10-502	HL-26023	A
DATE	SCALE			
	None			