

CRITICAL DOCUMENT

MPL NO. T41-1020 Acad07 H16005

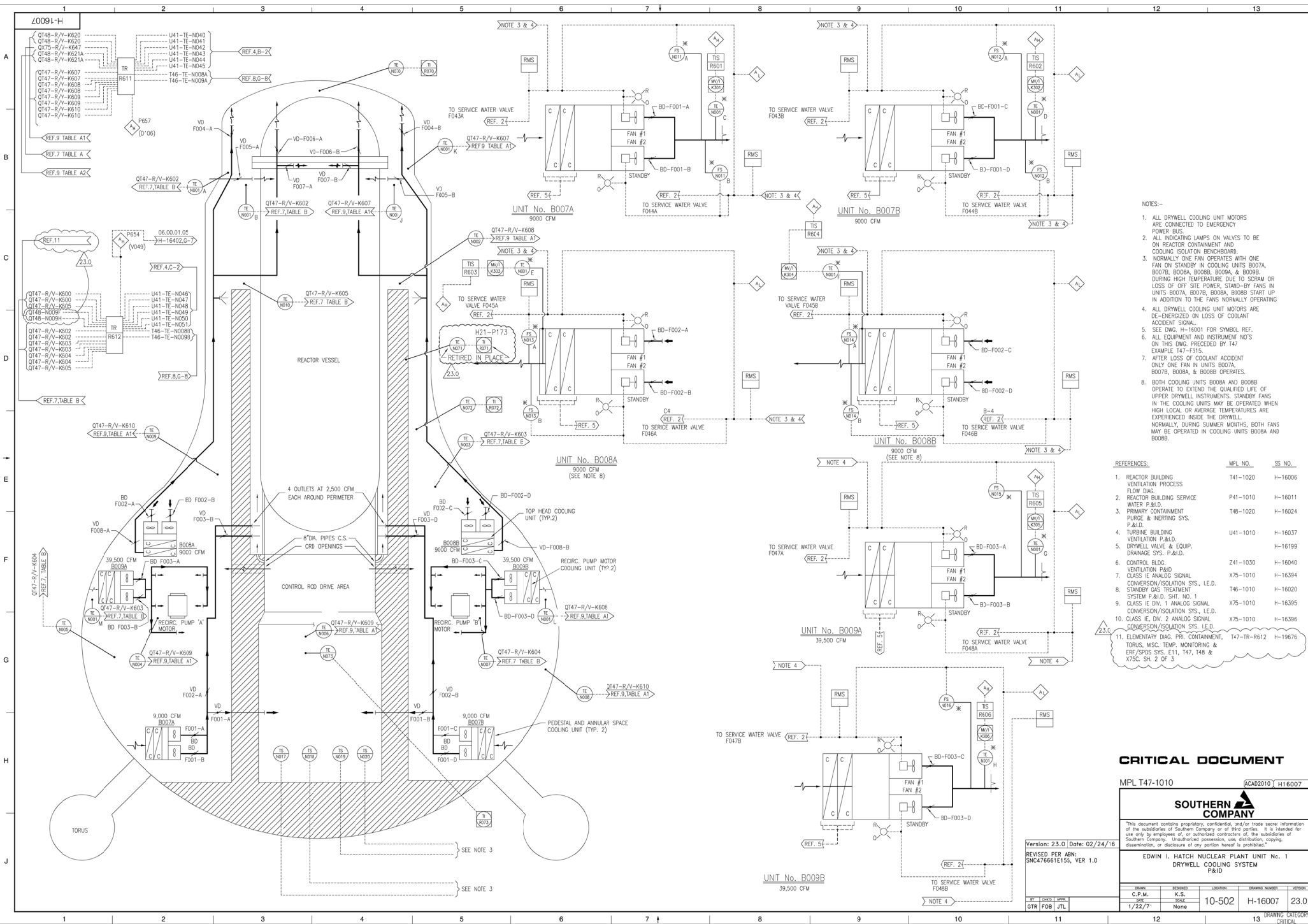
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
REACTOR BUILDING VENTILATION
SYSTEM P. & I.D.

ISSUED	DESIGNED	LOCATION	DRAWING NUMBER	VERSION
A.L.B.	A.H.	10-502	H-16005	46
DATE	SCALE			

DRY



- NOTES:-
1. ALL DRYWELL COOLING UNIT MOTORS ARE CONNECTED TO EMERGENCY POWER BUS.
 2. ALL INDICATING LAMPS ON VALVES TO BE ON REACTOR CONTAINMENT AND COOLING ISOLATION (BENCHMARK).
 3. NORMALLY ONE FAN OPERATES WITH ONE FAN ON STANDBY IN COOLING UNITS B007A, B007B, B008A, B008B, B009A, & B009B. DURING HIGH TEMPERATURE DUE TO SCRAM OR LOSS OF OFF SITE POWER, STAND-BY FANS IN UNITS B007A, B007B, B008A, B008B START UP IN ADDITION TO THE FANS NORMALLY OPERATING.
 4. ALL DRYWELL COOLING UNIT MOTORS ARE DE-ENERGIZED ON LOSS OF COOLANT ACCIDENT SIGNAL.
 5. SEE DWG. H-16001 FOR SYMBOL. REF.
 6. ALL EQUIPMENT AND INSTRUMENT N/O'S ON THIS DWG. PRECEDED BY T47 EXAMPLE T47-F315.
 7. AFTER LOSS OF COOLANT ACCIDENT ONLY ONE FAN IN UNITS B007A, B007B, B008A, & B008B OPERATES.
 8. BOTH COOLING UNITS B008A AND B008B OPERATE TO EXTEND THE QUALIFIED LIFE OF UPPER DRYWELL INSTRUMENTS. STANDBY FANS IN THE COOLING UNITS MAY BE OPERATED WHEN HIGH LOCAL OR AVERAGE TEMPERATURES ARE EXPERIENCED INSIDE THE DRYWELL. NORMALLY, DURING SUMMER MONTHS, BOTH FANS MAY BE OPERATED IN COOLING UNITS B008A AND B008B.

REFERENCES:

	MPL NO.	SS NO.
1. REACTOR BUILDING VENTILATION PROCESS FLOW DIAG.	T41-1020	H-16006
2. REACTOR BUILDING SERVICE WATER P&ID.	P41-1010	H-16011
3. PRIMARY CONTAINMENT PURGE & INERTING SYS. P&ID.	T48-1020	H-16024
4. TURBINE BUILDING VENTILATION P&ID.	U41-1010	H-16037
5. DRYWELL VALVE & EQUIP. DRAINAGE SYS. P&ID.		H-16199
6. CONTROL BLDG. VENTILATION P&ID.	Z41-1030	H-16040
7. CLASS E ANALOG SIGNAL CONVERSION/ISOLATION SYS., I.E.D.	X75-1010	H-16394
8. STANDBY GAS TREATMENT SYSTEM P&ID. SH. NO. 1	T46-1010	H-16020
9. CLASS E DIV. 1 ANALOG SIGNAL CONVERSION/ISOLATION SYS., I.E.D.	X75-1010	H-16395
10. CLASS E, DIV. 2 ANALOG SIGNAL CONVERSION/ISOLATION SYS., I.E.D.	X75-1010	H-16396
11. ELEMENTARY DIAG. PRI. CONTAINMENT, TORUS, MISC. TEMP. MONITORING & ER/SPOS SYS. E11, T47, T48 & X75C. SH. 2 OF 3	T47-TR-R612	H-19676

CRITICAL DOCUMENT

MPL T47-1010 ACAD2010 H16007

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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
DRYWELL COOLING SYSTEM
P&ID

ISSUED	REVISION	LOCATION	REVISION NUMBER	REVISION
C.P.M.	K.S.			
JOS	None			
1/22/77				

Version: 23.0 Date: 02/24/16
REVISED PER ABN: SNC476661E155, VER 1.0

10-502 H-16007 23.0

13 DRAWING CATEGORY: CRITICAL

80091-H

V41-B009A
(AIR CONDITIONER)V41-B009B
(AIR HANDLER)

TO FAN CO018 INTERLOCK

TO RADWASTE BLDG
VENTILATION SUPPLY

NOTES

1. SEE DWG. H-16001 FOR SYMBOL REFERENCES.
2. ALL EQUIPMENT AND INSTRUMENTATION ON THIS DWG. PRECEDED BY V41; EXCEPT V41-F0023.
3. FOR EQUIPMENT LOCATION SEE DWGS. H-16230/H-16231.
4. ALL REMOTE MANUAL SWITCHES, INDICATING LIGHT AND ANNUNCIATORS ON PANEL H-16195.
5. NUMBERS WITHIN CIRCLES INDICATE ANALOG INPUT NUMBER AS DESCRIBED IN THE FUNCTIONAL DESIGN CRITERIA FOR ENVIRONMENTAL RESPONSE FACILITY TABLE 19 UNIT 1 ANALOG INPUT SIGNALS TO THE SPDS/ERP COMPUTER SYSTEMS.

REFERENCES

- | REFERENCES | MPL NO. | SSI NO. |
|---|----------|---------|
| 1. RADWASTE BLDG VENTILATION - T46-1010
PROCESS FLOW DIAGRAM | H-16019 | |
| 2. REACTOR BLDG VENTILATION - T41-1020
SYSTEM PROCESS FLOW DIAGRAM | H-16005 | |
| 3. DELETED | | |
| 4. PLANT HEATING SYSTEM | H-161020 | H-16266 |
| 5. RADWASTE BLDG - ADDITION VENT. | V41-1030 | H-16312 |
| 6. TURBINE BLDG. CHILLED WATER SYSTEM P&ID | P-3-1010 | H-16327 |
| 7. ANNUNCIATOR SIGNALS TO SPDS RTP I.E.D. | X75-1010 | H-16402 |
| 8. DELETED | | |
| 9. REACTOR BUILDING - CHILLED WATER SYSTEM | IP65 | H-11734 |

CRITICAL DOCUMENT

MPL No. V41-1010

ACAD00V H16008

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EDWIN I. HATCH NUCLEAR PLANT UNIT No.1
RADWASTE BUILDING VENTILATION
P & ID

Version: 19.0 Date: 9-5-07

REVISED PER
ABN-H0054, VER. 1.0

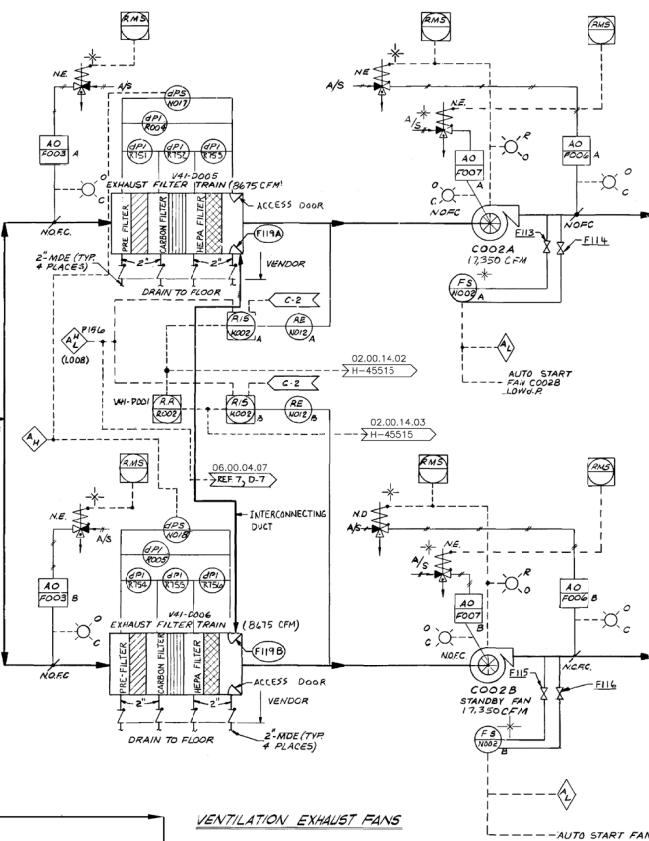
REV	DATE	BY	CHKD	APPD	SEE MICROFILM FOR PROLOG REV. SIGNATURES.
1	9-22-70	JWR			No Scale

DATE	ISSUED	LOCATION	DRAWING NUMBER	VERSION
10-502	10-502	10-502	H-16008	19.0

DRAWING CATEGORY: CRITICAL

O-5
E-5
REF 5
D-2, D-3, E-5

V41-C100
FUME HOOD
F31-HC3
2000 CFM
FROM RADWASTE BUILDING
VENTILATION EXHAUST

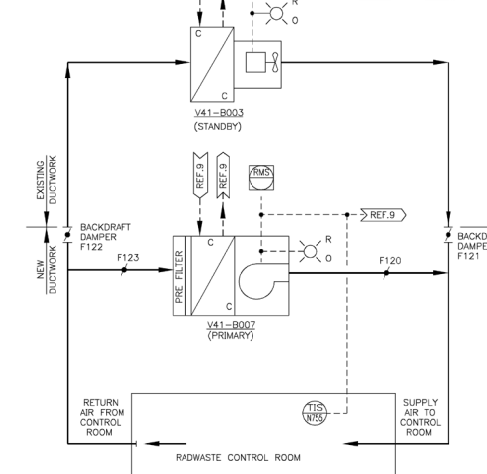


DOO4A
DOO4B
LOUVER
DOO1
ROLL FILTER

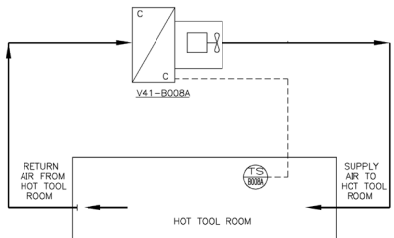
TO REACTOR BUILDING
VENT PLenum

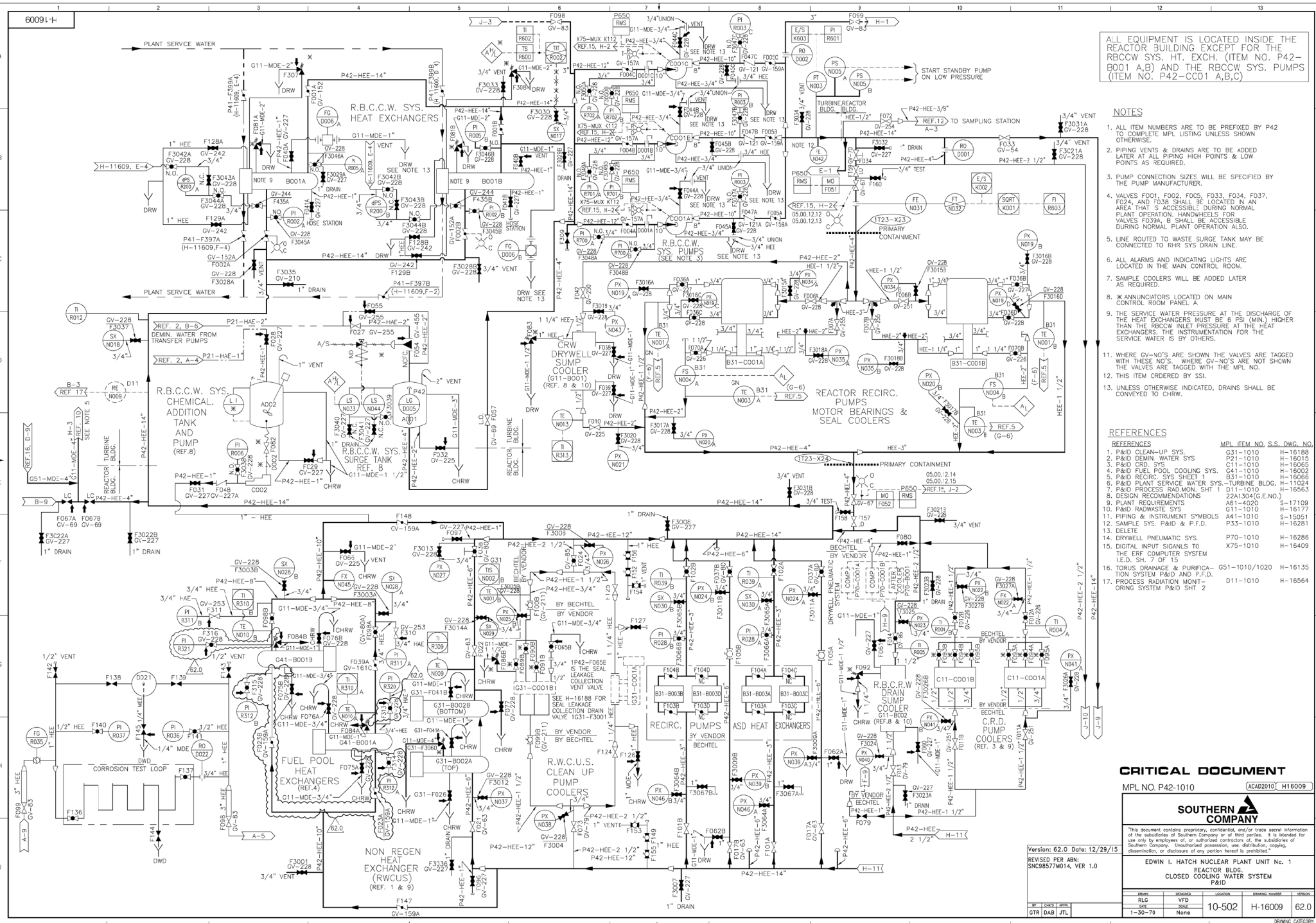
REF 2

VENTILATION SUPPLY FANS



VENTILATION EXHAUST FANS





ALL EQUIPMENT IS LOCATED INSIDE THE REACTOR BUILDING EXCEPT FOR THE RBCCW SYS. HT. EXCH. (ITEM NO. P42-0001 A,B) AND THE RBCCW SYS. PUMPS (ITEM NO. P42-CC01 A,B,C)

- ### NOTES
1. ALL ITEM NUMBERS ARE TO BE PREFIXED BY P42 TO COMPLETE MPL LISTING UNLESS SHOWN OTHERWISE.
 2. PIPING VENTS & DRAINS ARE TO BE ADDED LATER AT ALL REQUIRED HIGH POINTS & LOW POINTS AS REQUIRED.
 3. PUMP CONNECTION SIZES WILL BE SPECIFIED BY THE PUMP MANUFACTURER.
 4. VALVES F001, F002, F005, F033, F034, F037, F024, and F038 SHALL BE LOCATED IN AN AREA THAT IS ACCESSIBLE DURING NORMAL PLANT OPERATION. HANDWHEELS FOR VALVES F034, B SHALL BE ACCESSIBLE DURING NORMAL PLANT OPERATION ALSO.
 5. LINE ROUTED TO WASTE SURGE TANK MAY BE CONNECTED TO RHR SYS DRAIN LINE.
 6. ALL ALARMS AND INDICATING LIGHTS ARE LOCATED IN THE MAIN CONTROL ROOM.
 7. SAMPLE COOLERS WILL BE ADDED LATER AS REQUIRED.
 8. * ANNUNCIATORS LOCATED ON MAIN CONTROL ROOM PANEL A.
 9. THE SERVICE WATER PRESSURE AT THE DISCHARGE OF THE HEAT EXCHANGERS MUST BE 6 PSI (MIN.) HIGHER THAN THE RBCCW INLET PRESSURE AT THE HEAT EXCHANGERS. THE INSTRUMENTATION FOR THE SERVICE WATER IS BY OTHERS.
 11. WHERE GV-NO'S ARE SHOWN THE VALVES ARE TAGGED WITH THESE NO'S. WHERE GV-NO'S ARE NOT SHOWN THE VALVES ARE TAGGED WITH THE MPL NO.
 12. THIS ITEM ORDERED BY SSI.
 13. UNLESS OTHERWISE INDICATED, DRAINS SHALL BE CONVEYED TO CHRW.

REFERENCES

REFERENCES	MPL ITEM NO.	S.S. DWG. NO.
1. P&ID CLEAN-UP SYS.	G31-1010	H-16188
2. P&ID DEMIN. WATER SYS.	P21-1010	H-16015
3. P&ID GRD. SYS.	C11-1010	H-16053
4. P&ID FUEL POOL COOLING SYS.	G41-1010	H-16002
5. P&ID RECIRC. SYS.	B31-1010	H-16056
6. P&ID PLANT SERVICE WATER SYS.-TURBINE BLDG.	H-1024	H-16024
7. P&ID PROCESS RAD. MON. SHT 1	D11-1010	H-16563
8. DESIGN RECOMMENDATIONS	22A1-304(G.E.N.O.)	
9. PLANT REQUIREMENTS	A61-4020	S-17109
10. P&ID RADWASTE SYS.	G11-1010	H-16177
11. PIPING & INSTRUMENT SYMBOLS	A41-1010	S-15051
12. SAMPLE SYS. P&ID & P.F.D.	P33-1010	H-16281
13. DELETE		
14. DRYWELL PNEUMATIC SYS.	P70-1010	H-16286
15. DIGITAL INPUT SIGNALS TO THE EBF COMPUTER SYSTEM (E.D. SH. 7 OF 9)	X75-1010	H-16409
16. TORUS DRAINAGE & PURIFICATION SYSTEM P&ID AND P.F.D.	G51-1010/1020	H-16135
17. PROCESS RADIATION MONITORING SYSTEM P&ID SHT 2	D11-1010	H-16564

CRITICAL DOCUMENT
MPL NO. P42-1010

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EDWIN L. HATCH NUCLEAR PLANT UNIT No. 1
REACTOR BLDG.
CLOSED COOLING WATER SYSTEM
P&ID

Version: 62.0 Date: 12/29/15

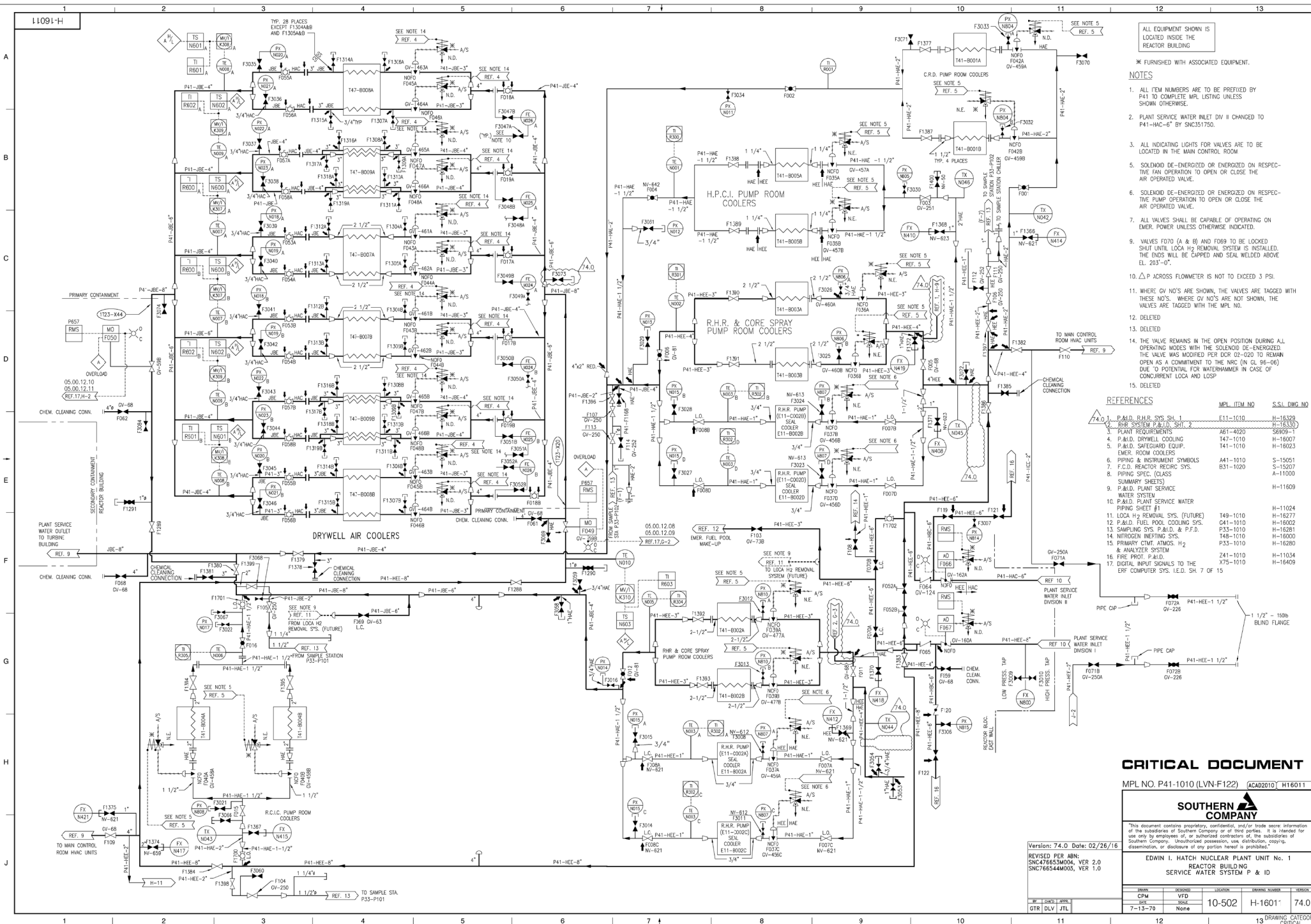
REVISED PER ABN

SNCS657M014, VER 1.0

DATE	REVISION	DESCRIPTION	BY	CHKD	APP'D
10-502	1	None	None	None	None
1-30-78	None	None	None	None	None

GTR DAB JTL

DRAWING CATEGORY: OTHER



- NOTES**
- ALL ITEM NUMBERS ARE TO BE PREFIXED BY P41 TO COMPLETE MFL LISTING UNLESS SHOWN OTHERWISE.
 - PLANT SERVICE WATER INLET DIV II CHANGED TO P41-HAC-6" BY SNCS15750.
 - ALL INDICATING LIGHTS FOR VALVES ARE TO BE LOCATED IN THE MAIN CONTROL ROOM.
 - SOLENOID DE-ENERGIZED OR ENERGIZED ON RESPECTIVE PUMP OPERATION TO OPEN OR CLOSE THE AIR OPERATED VALVE.
 - SOLENOID DE-ENERGIZED OR ENERGIZED ON RESPECTIVE PUMP OPERATION TO OPEN OR CLOSE THE AIR OPERATED VALVE.
 - ALL VALVES SHALL BE CAPABLE OF OPERATING ON EMER. POWER UNLESS OTHERWISE INDICATED.
 - VALVES F070 (A & B) AND F069 TO BE LOCKED SHUT UNIL H2 REMOVAL SYSTEM IS INSTALLED. THE ENDS WILL BE CAPPED AND SEAL WELDED ABOVE EL. 203'-0".
 - Δ P ACROSS FLOWMETER IS NOT TO EXCEED 3 PSI.
 - WHERE GV NO'S ARE SHOWN, THE VALVES ARE TAGGED WITH THESE NO'S. WHERE GV NO'S ARE NOT SHOWN, THE VALVES ARE TAGGED WITH THE MFL NO.
 - DELETED
 - DELETED
 - THE VALVE REMAINS IN THE OPEN POSITION DURING ALL OPERATING MODES WITH THE SOLENOID DE-ENERGIZED. THE VALVE WAS MODIFIED PER DCR 02-020 TO REMAIN OPEN AS A COMMITMENT TO THE MFC (N CL 96-06) DUE TO POTENTIAL FOR WATERHAMMER IN CASE OF CONCURRENT LOCA AND LOSP.
 - DELETED

REFERENCES

MFL ITEM NO	S.S.I. DNG NO
1. P&ID, R.H.R. SYS. SH. 1	F11-1010
2. R.H.R. SYSTEM P&ID, SH. 2	H-18329
3. PLANT REQUIREMENTS	A61-4020
4. P&ID, DRYWELL COOLING	T47-1010
5. P&ID, SAFEGUARD EQUIP.	T41-1010
6. P&ID, SAFEGUARD EQUIP.	H-16007
7. F.C.I. REACTOR RECIRC. SYS.	S-15051
8. PIPING SPEC. (CLASS SUMMARY SHEETS)	S-15207
9. P&ID, PLANT SERVICE WATER SYSTEM	H-11609
10. P&ID, PLANT SERVICE WATER PIPING SHEET #1	H-11024
11. LOCA H2 REMOVAL SYS. (FUTURE)	H-18277
12. P&ID, FUEL POOL COOLING SYS.	H-16002
13. SAMPLING, P&ID & P.F.D.	H-16281
14. NITROGEN INERTING SYS.	H-16000
15. PRIMARY CONT. ATMOS. H2 ANALYZER SYSTEM	H-16280
16. FIRE PROT. P&ID	H-11034
17. DIGITAL INPUT SIGNALS TO THE ERF COMPUTER SYS. I.E.D. SH. 7 OF 15	H-16409

CRITICAL DOCUMENT

MPL NO. P41-1010 (LVN-F122) ACAD2010 H16011



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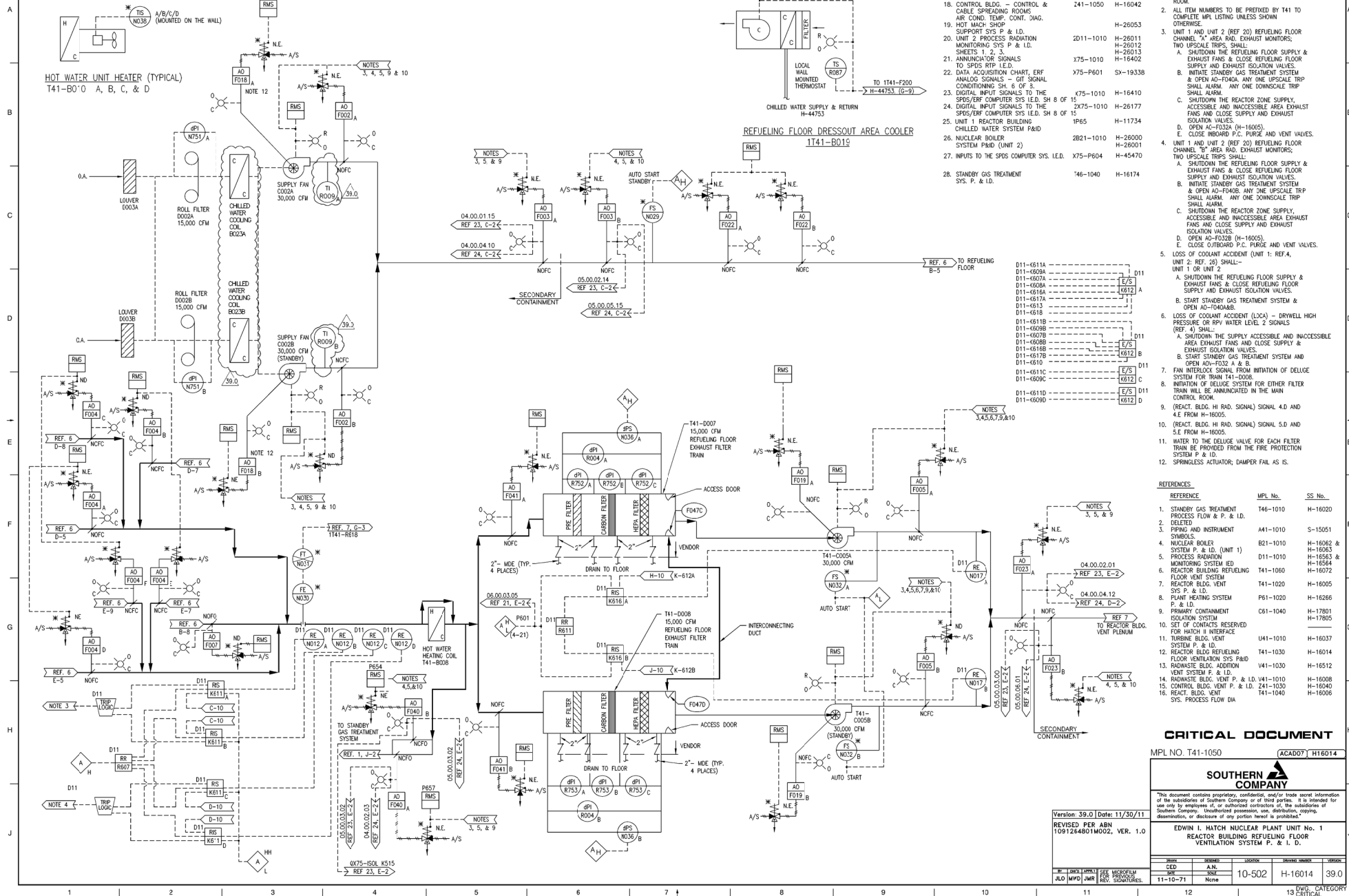
EDWIN I. HATCH NUCLEAR PLANT UNIT NO. 1
REACTOR BUILDING
SERVICE WATER SYSTEM P & ID

Version: 74.0 Date: 02/26/16
REVISED PER ABR
SNCF4655M004, VER 2.0
SNCF76654M004, VER 1.0

ITEM	REV	DATE	DESCRIPTION	BY	CHKD	APPD
1	1	7-13-79	CPM	VD	None	
2	1	7-13-79	None	None	None	

DRAWING CATEGORY: CRITICAL

1091-H



22091-H

OTHER SYSTEMS
SERVICE WATER TO EMERGENCY
EQUIPMENT
SERVICE WATER INSTALLED WITH
UNIT 1 BUT SERVING UNIT 2
OTHER SERVICE WATER

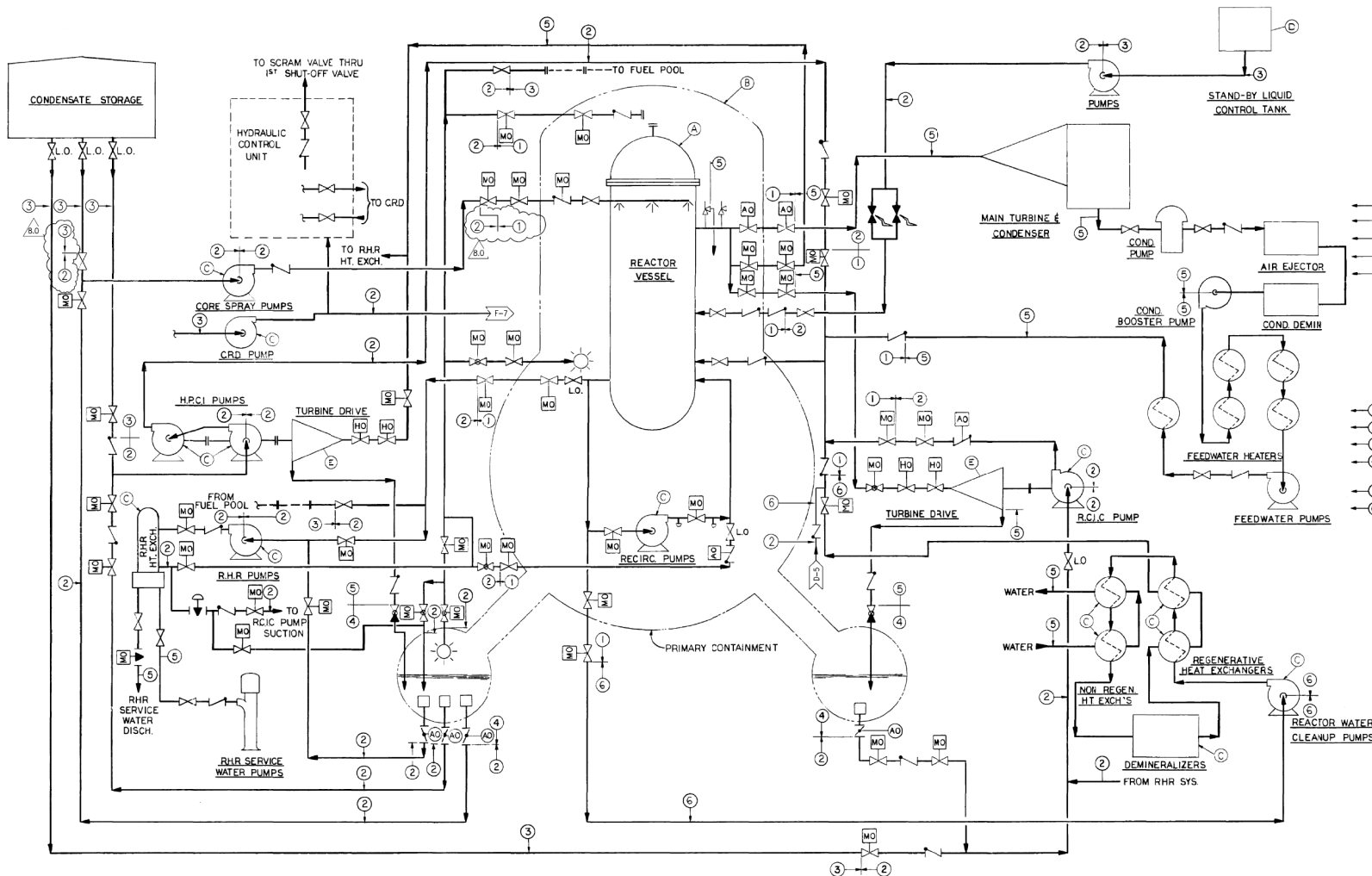
CLASSIFICATION
5-ADDITIONAL
QUALITY CONTROL
3
5

EQUIPMENT CODES

- ← A ASME SECTION IIIA
- ← B ASME SECTION IIIB
- ← C ASME SECTION IIIC
- ← D ASME SECTION VIII API 620 650
- ← E ENGINEERING SPECIFICATION

PIPING CLASSIFICATION

- ← 1 USAS B31.7 CODE CLASS 1 PIPING
- ← 2 USAS B31.7 CODE CLASS 2 PIPING
- ← 3 USAS B31.7 CODE CLASS 3 PIPING
- ← 4 ASME CODE SECTION III EXTENSION OF CONTAINMENT
- ← 5 USAS B31.1 CODE
- ← 6 ASME SECTION III CLASS 3



ACAD001116022

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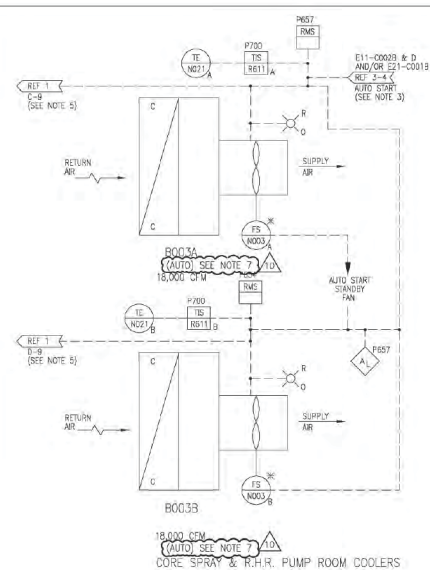
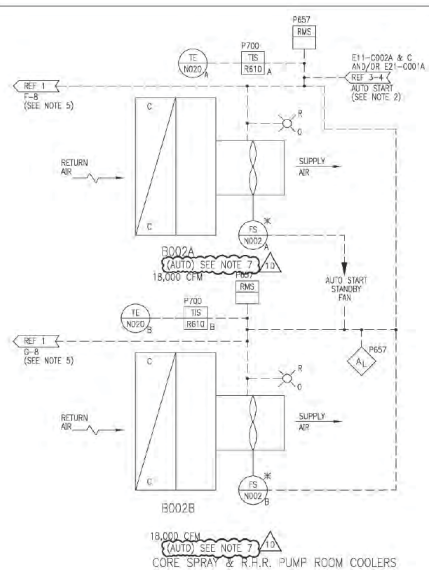
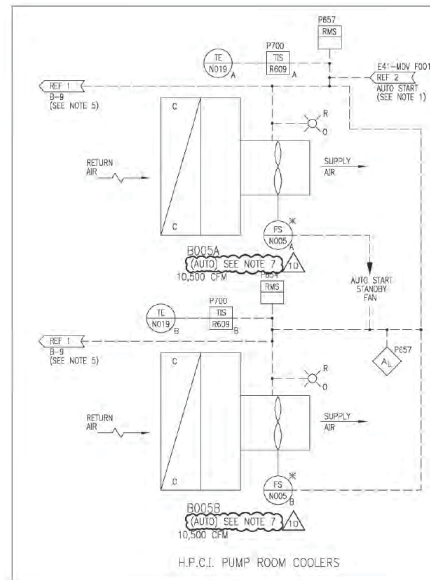
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
PIPING AND EQUIPMENT CODE
CLASSIFICATION DIAGRAM

Version: 8.0 | Date: 02/11/09
REVISED BY ABN-H0114,
VER. 1.0.

REV	DATE	BY	CHKD	APPD	REASON
1	02/11/09	ABN	ABN	ABN	INITIAL

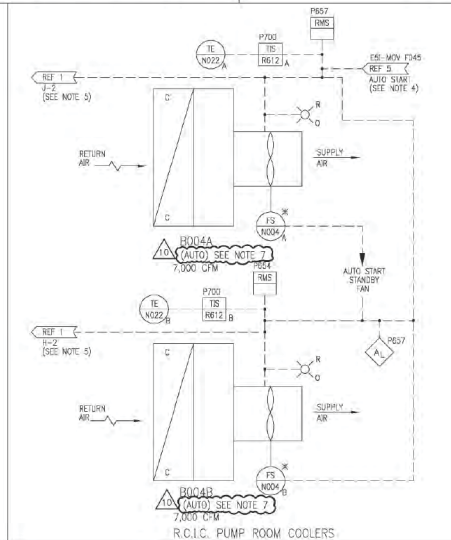
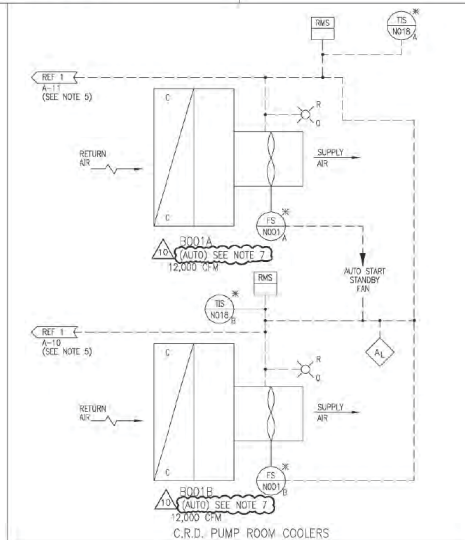
10-502 H-16022 8.0



- NOTES**
1. AUTOMATIC START SIGNAL FROM VALVE CONTACT E41-1001
 2. AUTOMATIC START SIGNAL FROM PUMPS STARTER CIRCUIT E11-C002A, C AND/OR E21-C001A
 3. AUTOMATIC START SIGNAL FROM PUMPS STARTER CIRCUIT E11-C002B, D AND/OR E21-C001B
 4. AUTOMATIC START SIGNAL FROM VALVE CONTACT E51-1045
 5. DE-ENERGIZE SOLENOID VALVE ON RESPECTIVE FAN OPERATION TO OPEN AIR OPERATED VALVE
 6. ALL EQUIPMENT AND INSTRUMENT NG'S ON THIS DWS PRECEDED BY T41; EXAMPLE: T41-B003A
 7. DURING NORMAL PLANT OPERATION, BOTH 'A' & 'B' COOLERS ARE ALLOWED TO THE 'AUTO' POSITION. ANY ONE COOLER MAY BE OPERATED AS NEEDED. DURING ABNORMAL OR ACCIDENT CONDITION, UPON VERIFICATION OF START OF BOTH COOLERS, ANY ONE COOLER COULD BE SELECTED TO BE IN THE 'STANDBY' POSITION.

REFERENCES

REF.	DESCRIPTION	MPL No.	SS No.
1.	REACTOR BUILDING	P41-1010	H-16011
2.	PLANT SERVICE WATER SYSTEM P. & I.D.		
3.	F.C.D. H.P.C.I. SYSTEM	E41-1030	H-19990
4.	F.C.D. R.H.R. SYSTEM	E11-1030	H-19937
5.	F.C.D. CORE SPRAY SYSTEM	E21-1030	H-19944
6.	F.C.D. R.C.I.C. SYSTEM	E51-1030	H-19996
	PUMP & INSTRUMENT SYMBOLS	A41-1010	S-15051

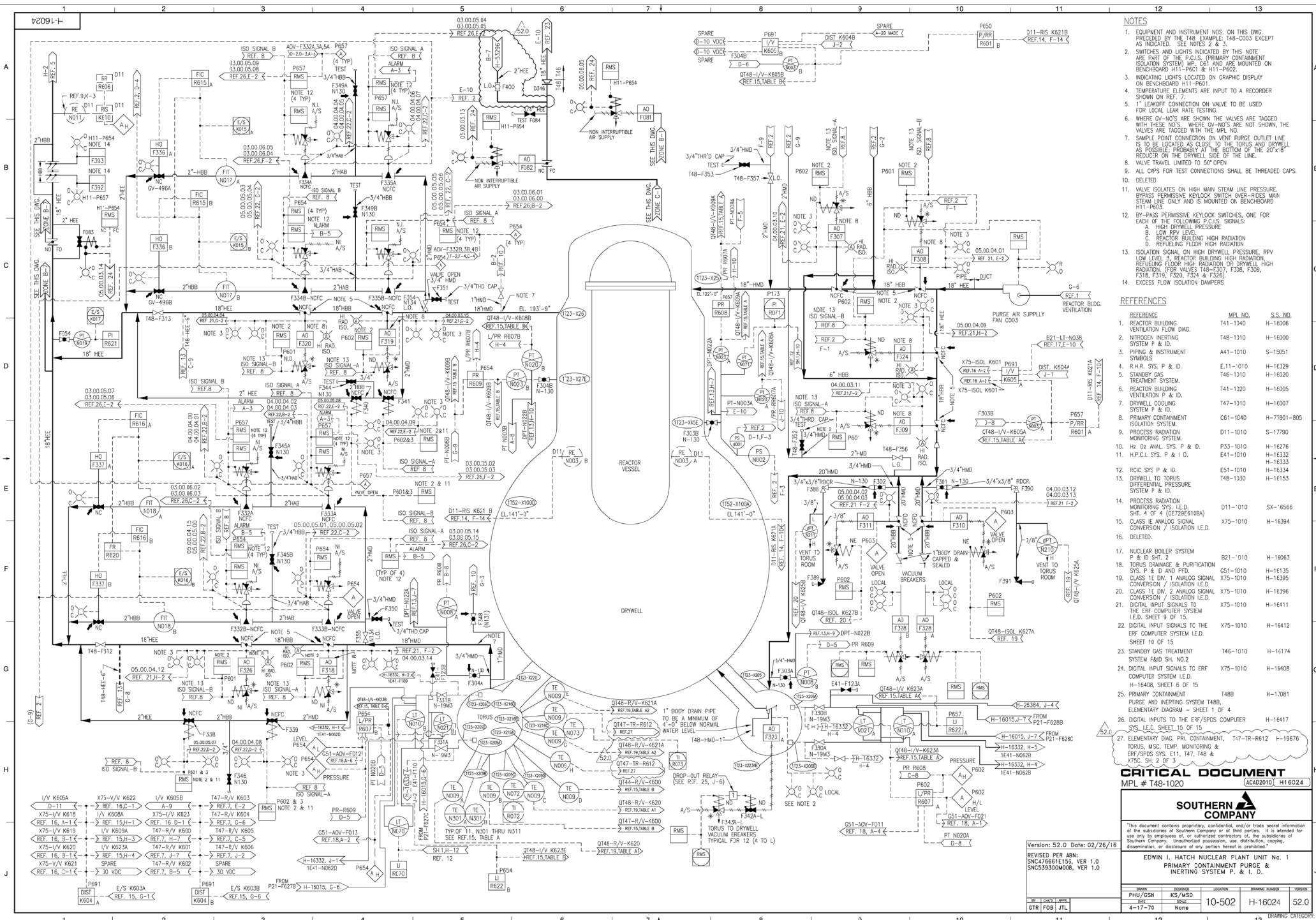


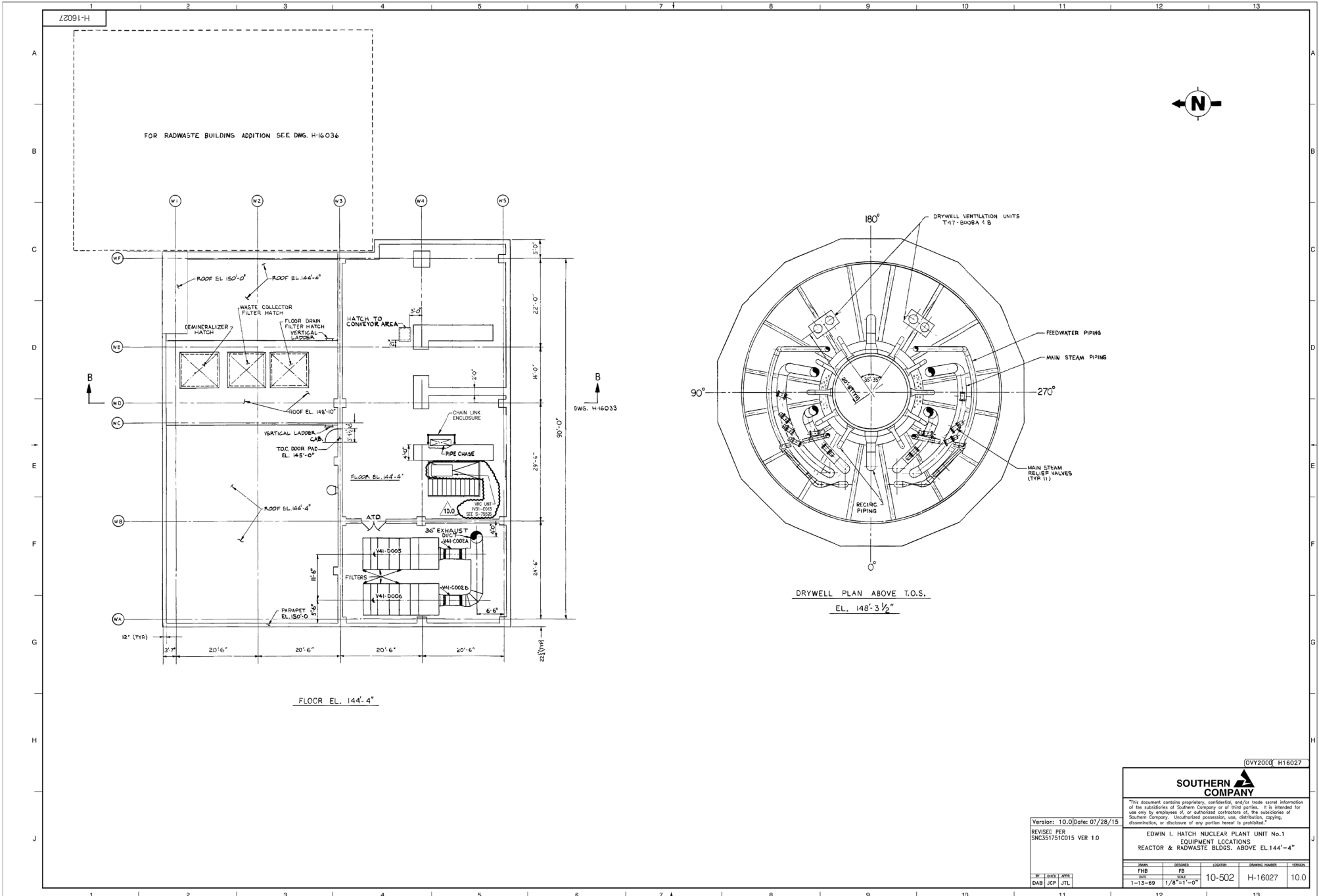
CRITICAL DOCUMENT

MPL T41-1030 ACAD14 H16023

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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1 SAFEGUARD EQUIPMENT COOLING P. & I.D.			
DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY
CEP	KS		
3/27/70	None	10-502	H-16023
10			10

Revision: 10 Date: 12-28-99
 REVISED PER ABN 97-0153

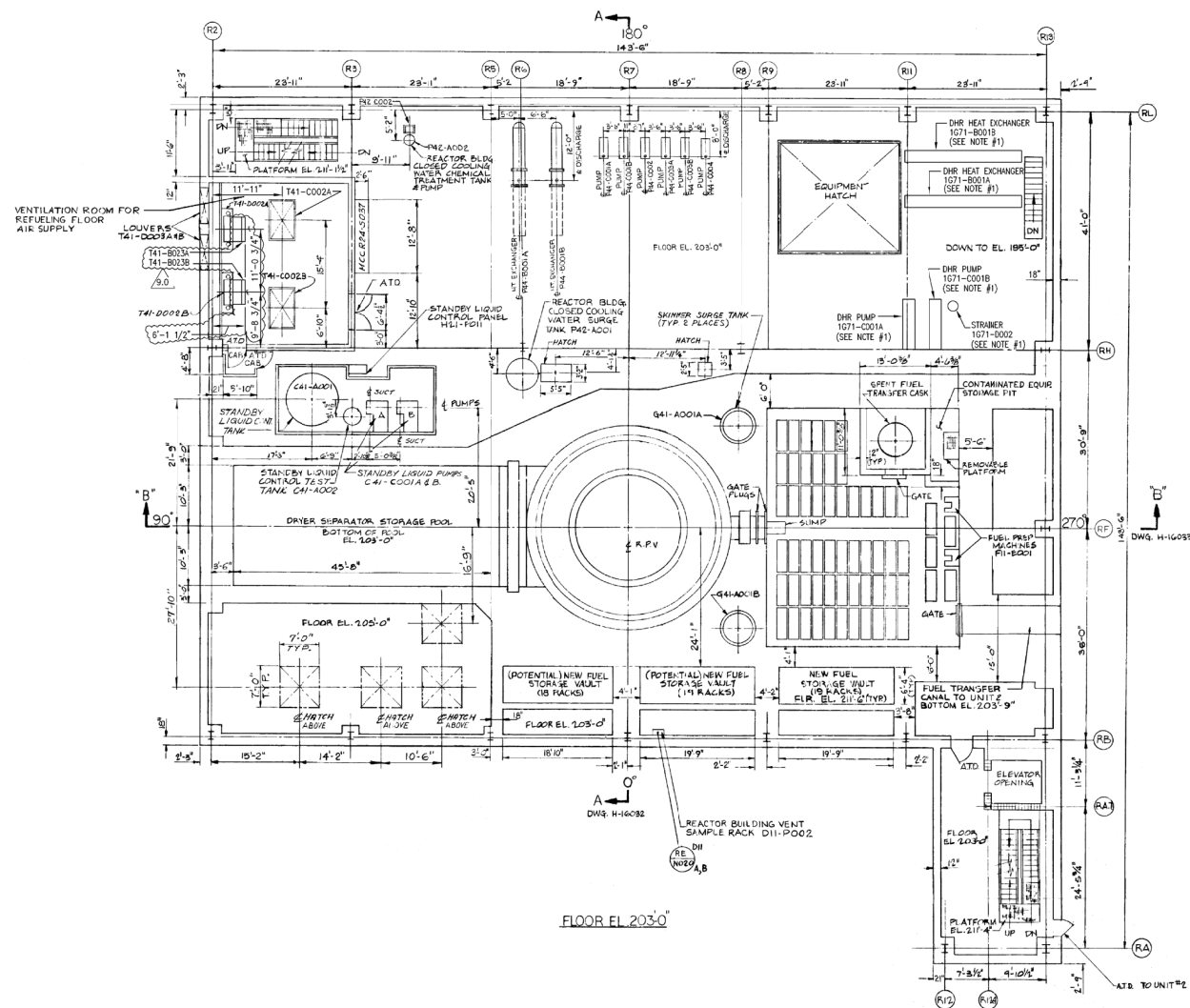




Version: 10.0/Date: 07/28/15
REVISED PER
SNCS17S1C015 VER 1.0
DAB JCP JTL

00VY2000 H16027				
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EDWIN I. HATCH NUCLEAR PLANT UNIT No.1 EQUIPMENT LOCATIONS REACTOR & RADWASTE BLDGS. ABOVE EL.144'-4"				
DATE	REVISED	LOCATION	ISSUED NUMBER	VERSION
1-13-69	1/8"=1'-0"	10-502	H-16027	10.0

06091-H



NOTES:
1. 1G71 COMPONENTS ADDED FOR GENERAL LOCATION PURPOSES ONLY.

ACAD00V H16030

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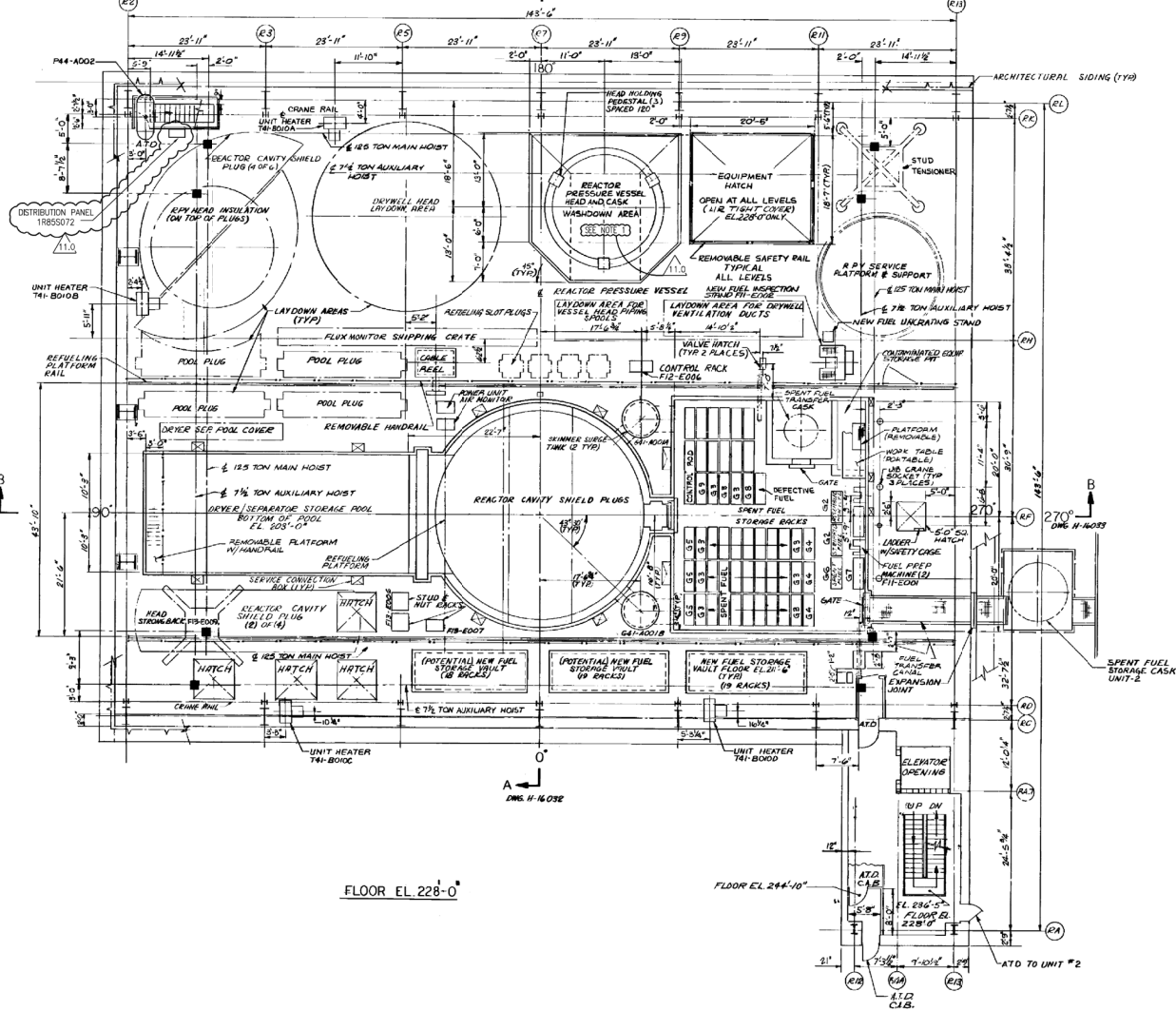
EDWIN I. HATCH NUCLEAR PLANT UNIT No.1
EQUIPMENT LOCATIONS
REACTOR BLDG. EL. 203'-0"

Version: 9.0 | Date: 1/12/12
REVISED PER ABN
1091214601M012, VER. 2.0

DCP (MWD) JMR SEE MICROFILM FOR SIGNATURES
1/8"=1'-0"

DATE	BY	CB	LOCN	REVISION	DATE
10-502	H-16030	9.0			

18091-H



FLOOR EL. 228'-0"

FLOOR EL. 244'-10"

NOTES

1. DRY STORAGE CASK WASHDOWN PLATFORM EVALUATED IN CALCULATION SCH-11-146

CADOVY H16031

**SOUTHERN
COMPANY**

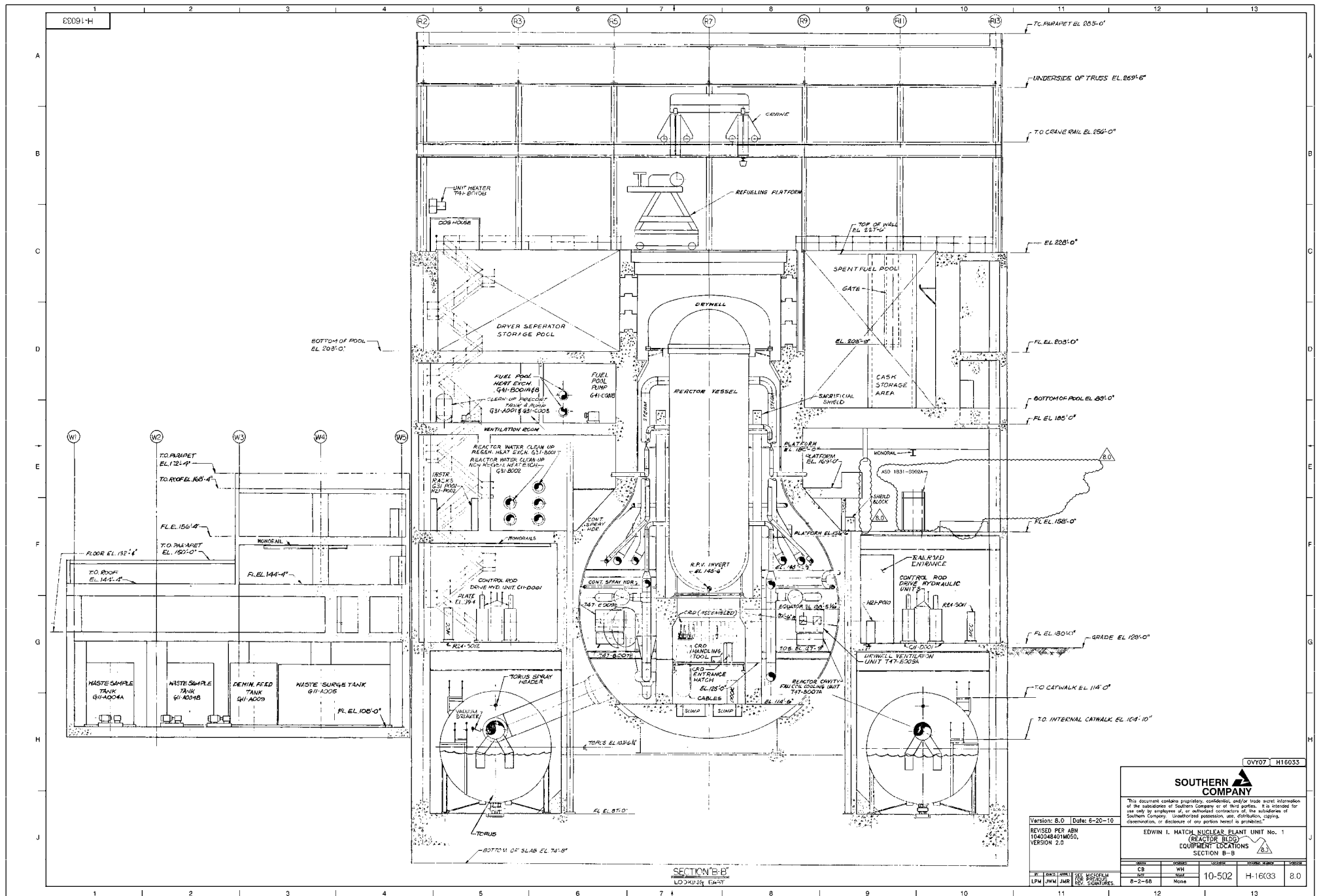
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EDWIN I. HATCH NUCLEAR PLANT UNIT No.1
EQUIPMENT LOCATIONS
REACTOR BLDG. PLAN EL. 228'-0"

Version: 11.0 | Date: 07/12/12
REVISED PER ABN SNC3223090002
VER. 1.0, & ABN 1091348010008
VER. 2.0.

REV	DATE	BY	CHKD	APPD	REVISION	LOCATION	ISSUED NUMBER	ISSUED
1	7/29/96	JMR			None	10-502	H-16031	11.0

SEE MICROFILM FOR PREVIOUS REV. SIGNATURES



OY07 H16033

SOUTHERN COMPANY

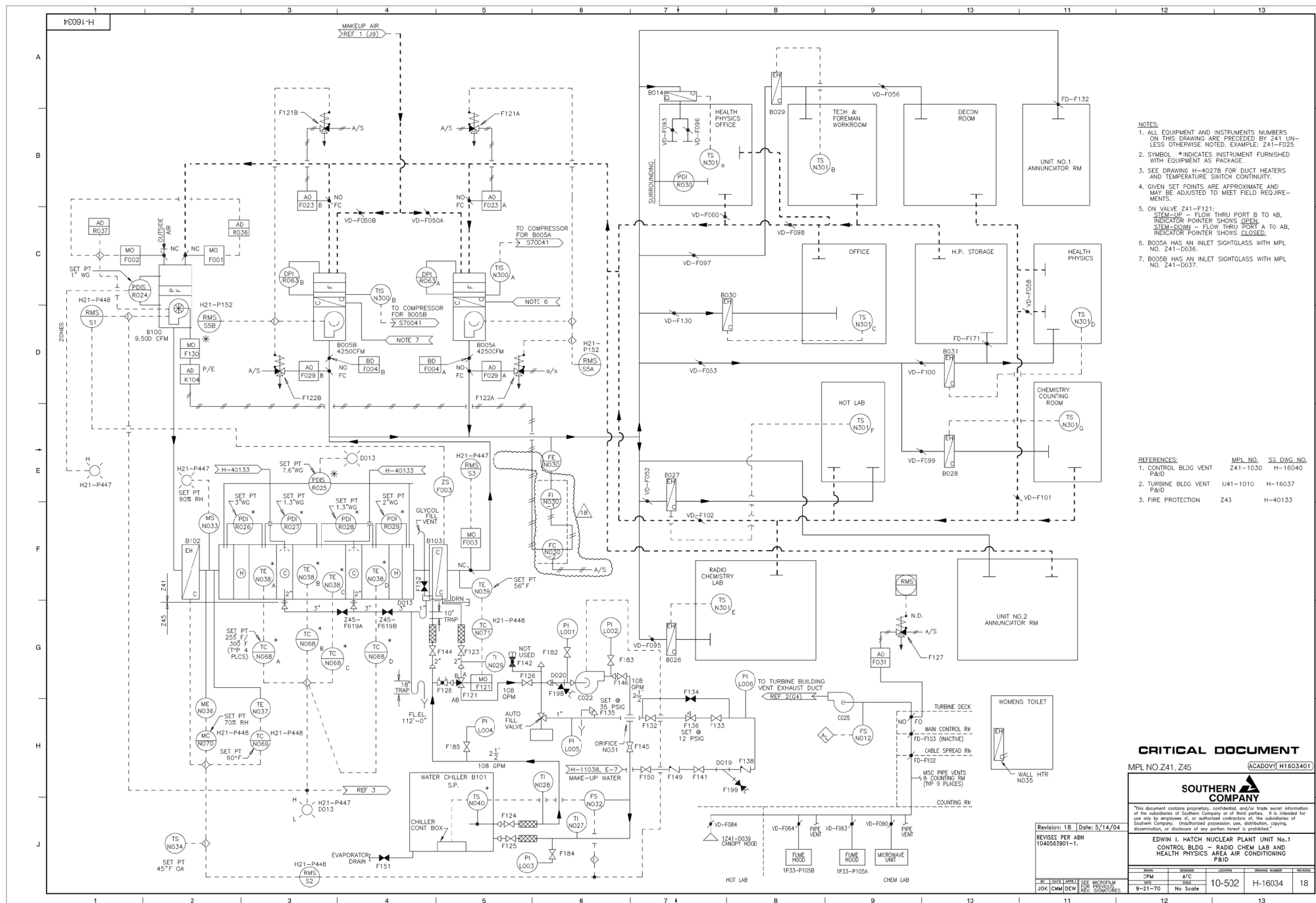
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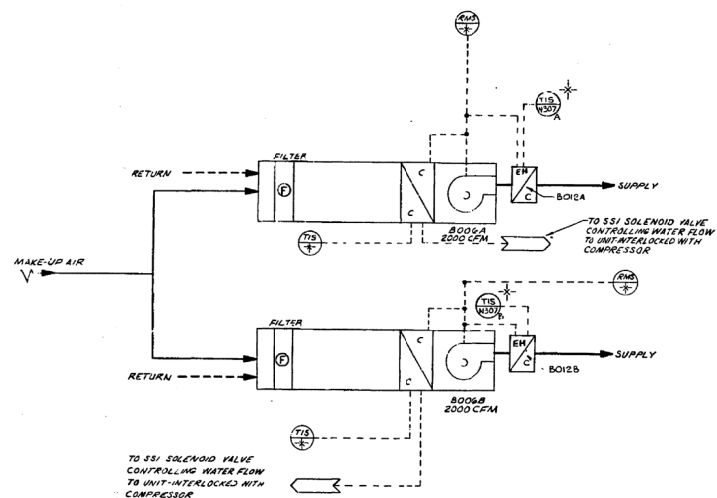
Version: 8.0 Date: 6-20-10

REVISED PER AEN 1040842/MSCL VERSION 2.0

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
(REACTOR BOD)
EQUIPMENT LOCATIONS
SECTION B-B

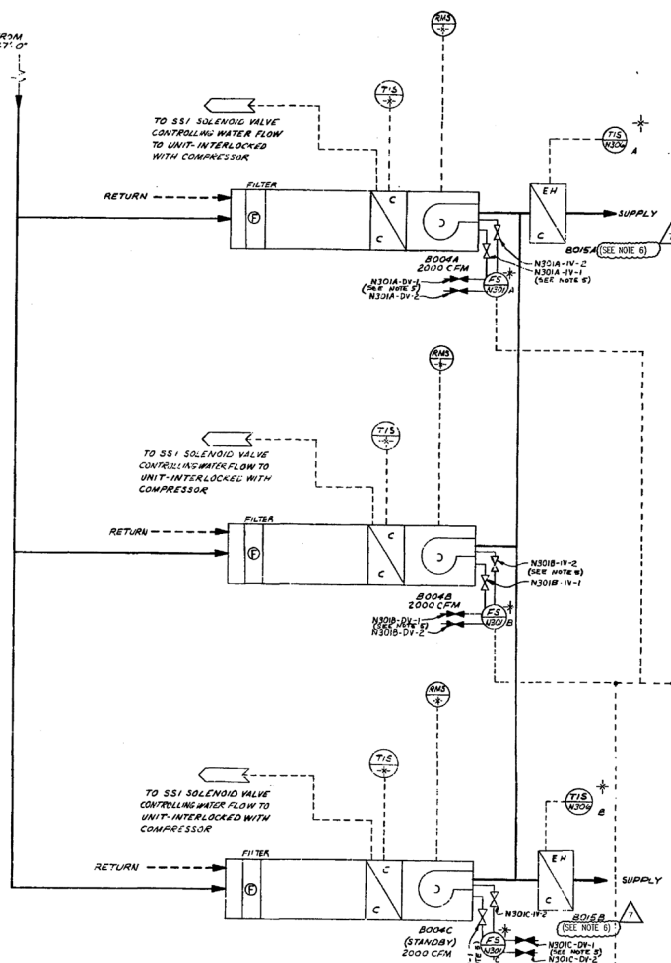
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WATER ANALYSIS ROOM
PACKAGE AIR CONDITIONING UNITS

MAKE-UP AIR FROM
ACCESS EL. 147' 0"



COMPUTER ROOM
PACKAGE AIR CONDITIONING UNITS

NOTES

1. SEE DWG. H-16001 FOR SYMBOL REFERENCES
2. ALL EQUIPMENT AND INSTRUMENTS NOT ON THIS DWG. PRECEDED BY 241. EXAMPLE: 241-BO04B
3. FOR EQUIPMENT LOCATION SEE DWS H-16003-314-16005
4. THIS SYMBOL INDICATES INSTRUMENT FURNISHED WITH EQUIPMENT AS A PACKAGE
5. NORMALLY OPEN ROOF VALVES FUNCTION AS ISOLATION VALVES FOR ASSOCIATED INSTRUMENTATION. NORMALLY CLOSED ROOF VALVES ALLOW CONNECTION OF PORTABLE INSTRUMENTATION
6. 1241-BO15 A AND B HAVE POWER REMOVED AND ARE ABANDONED IN PLACE.

REFERENCES

- REF.
1. TURBINE BUILDING VENTILATION P&ID.
 2. TURBINE BUILDING VENTILATION PROCESS FLOW DIAGRAM
 3. CONTROL BLDG. COMPUTER ROOM WATER ANALYSIS ROOM A/C PROCESS FLOW DIAGRAM
 4. CONTROL BLDG. VENTILATION 241-1040 H-16041 PROCESS FLOW DIAGRAM
 5. CONT. BLDG. GOLD LAB P&ID H-16056

(ACB) H-16035

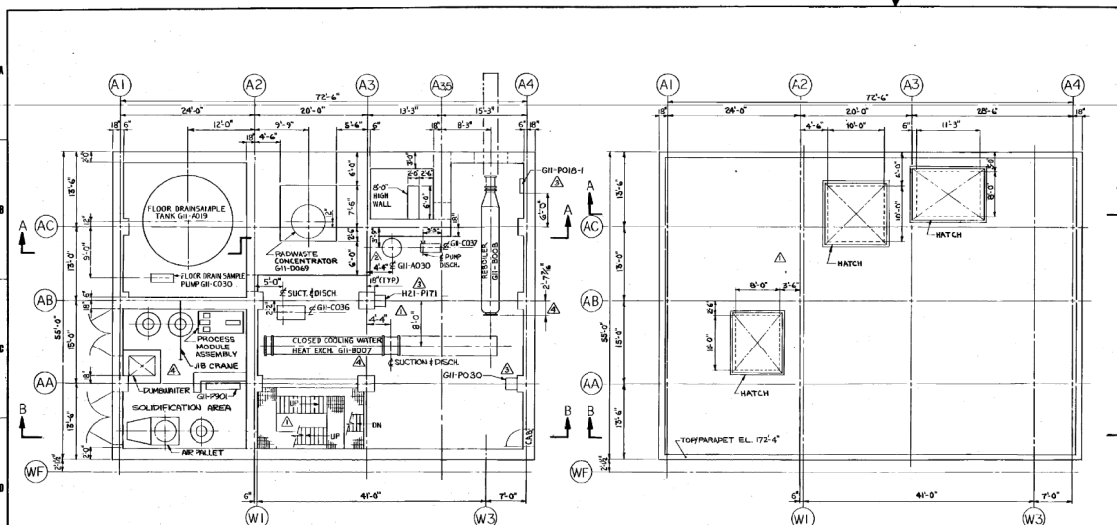
MPL NR 241-1020	
DECATAL ASSOCIATES JOB 0511	
SOUTHERN SERVICES INC. FOR	
GEORGIA POWER CO., ATLANTA, GA GENERAL ENGINEERING DEPARTMENT	
EDW: LATCH NUCLEAR PLANT UNIT NO.1 CONTROL BLDG. COMPUTER, WTR. ANALYSIS RMS, AIR COND. P. & I.D.	
DATE: 10/18/79	SCALE: 1/4" = 1'-0"
LOCATION: 10-502	DRAWING NUMBER: H-16035

POOR QUALITY
ORIGINAL
SCAN MAY NOT
BE LEGIBLE

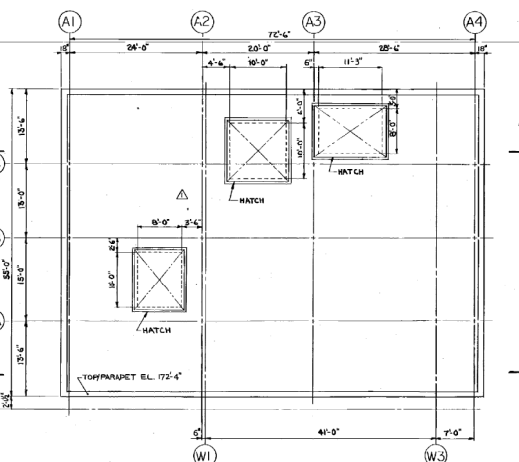
REV. 7 DATE: 10/18/79
SCANNED, VERIFIED BY: BJT
INCORPORATED AEN 93-5044-001.

REV. 6 DATE: 05-85
INCORPORATED AEN 93-5044-001
REMOVED DOCUMENTATION ERRORS
REMOVED DOCUMENTATION ERRORS

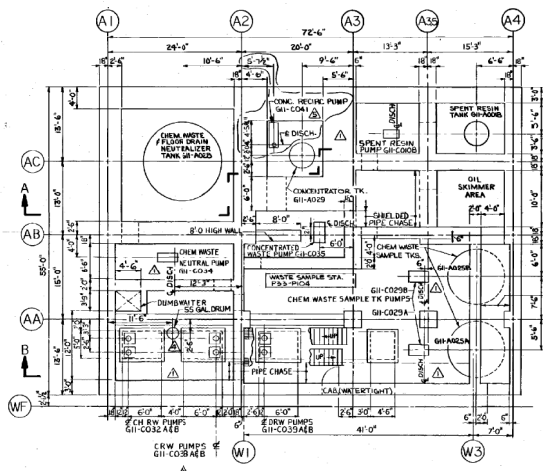
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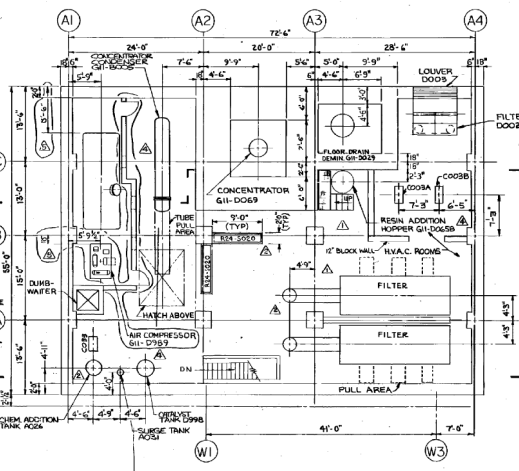
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EL 132'-4"



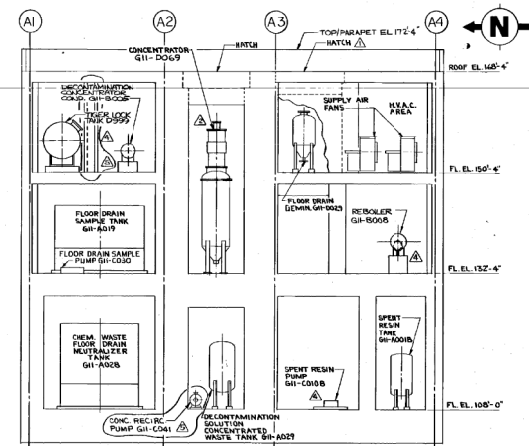
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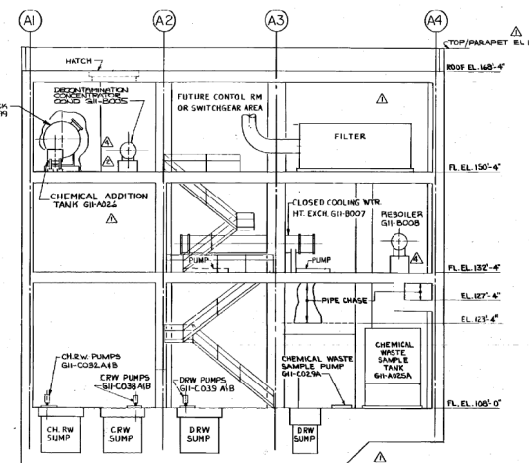
PLAN VIEW
EL 128'-0"



PLAN VIEW
EL 150'-4"



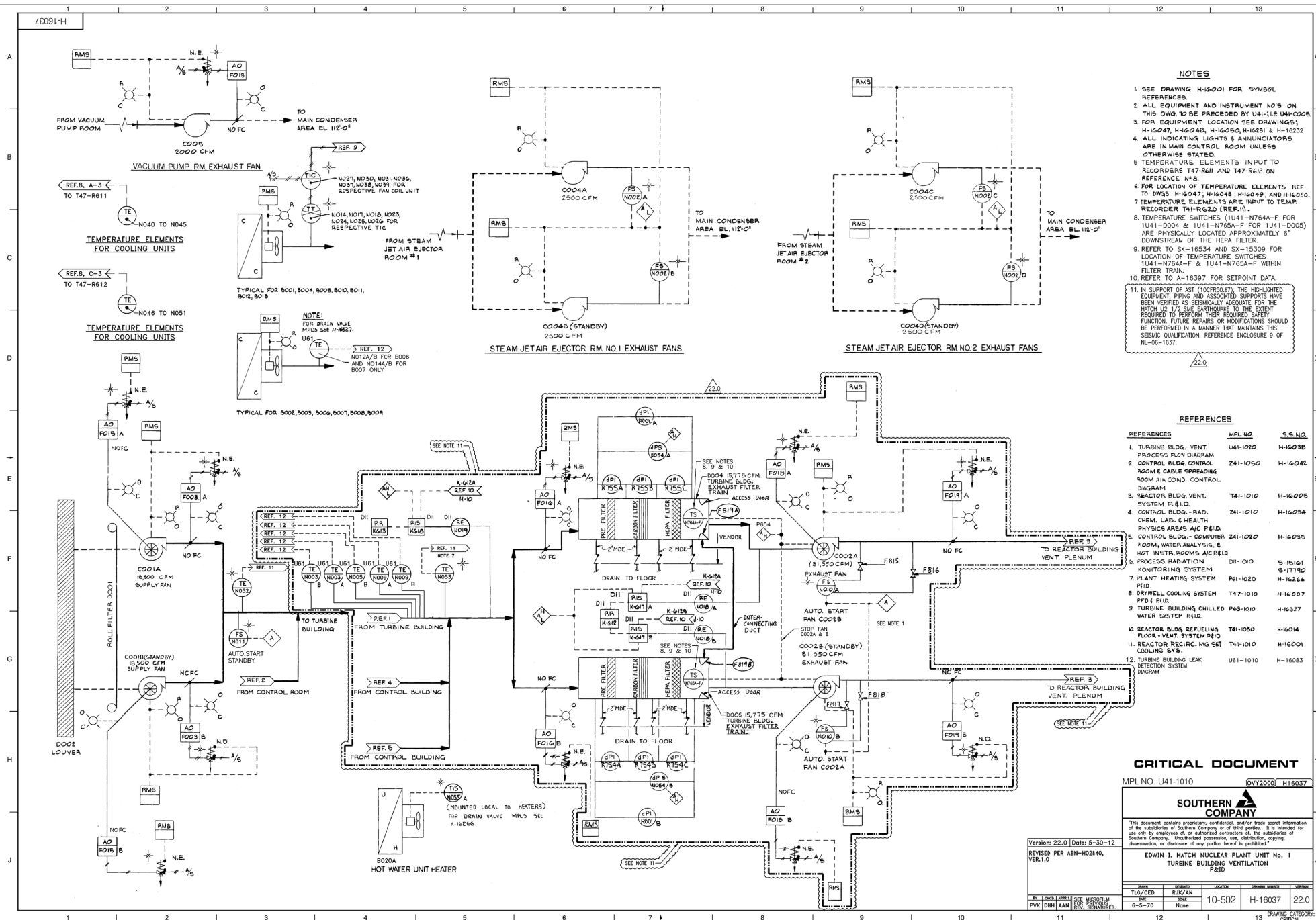
SECTION A-A



SECTION B-B

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2-11-77



CRITICAL DOCUMENT

MPL NO. U41-1010

QVY2000 H16037

SOUTHERN 
COMPANY

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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
TUREINE BUILDING VENTILATION
P&ID

Version: 22.0	Date: 5-30-12
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REVISION PER ABN-H02840,
VER.1.0

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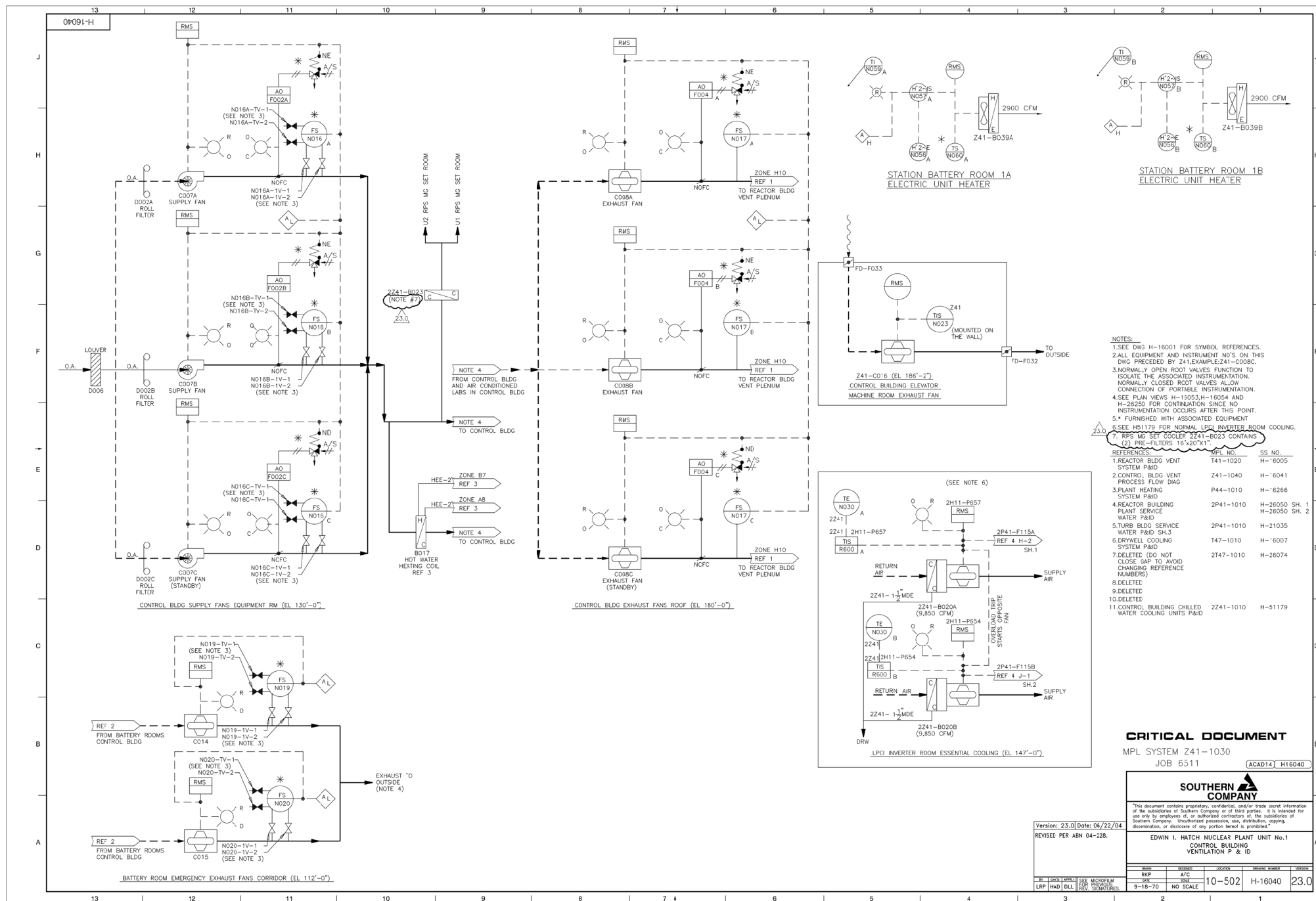
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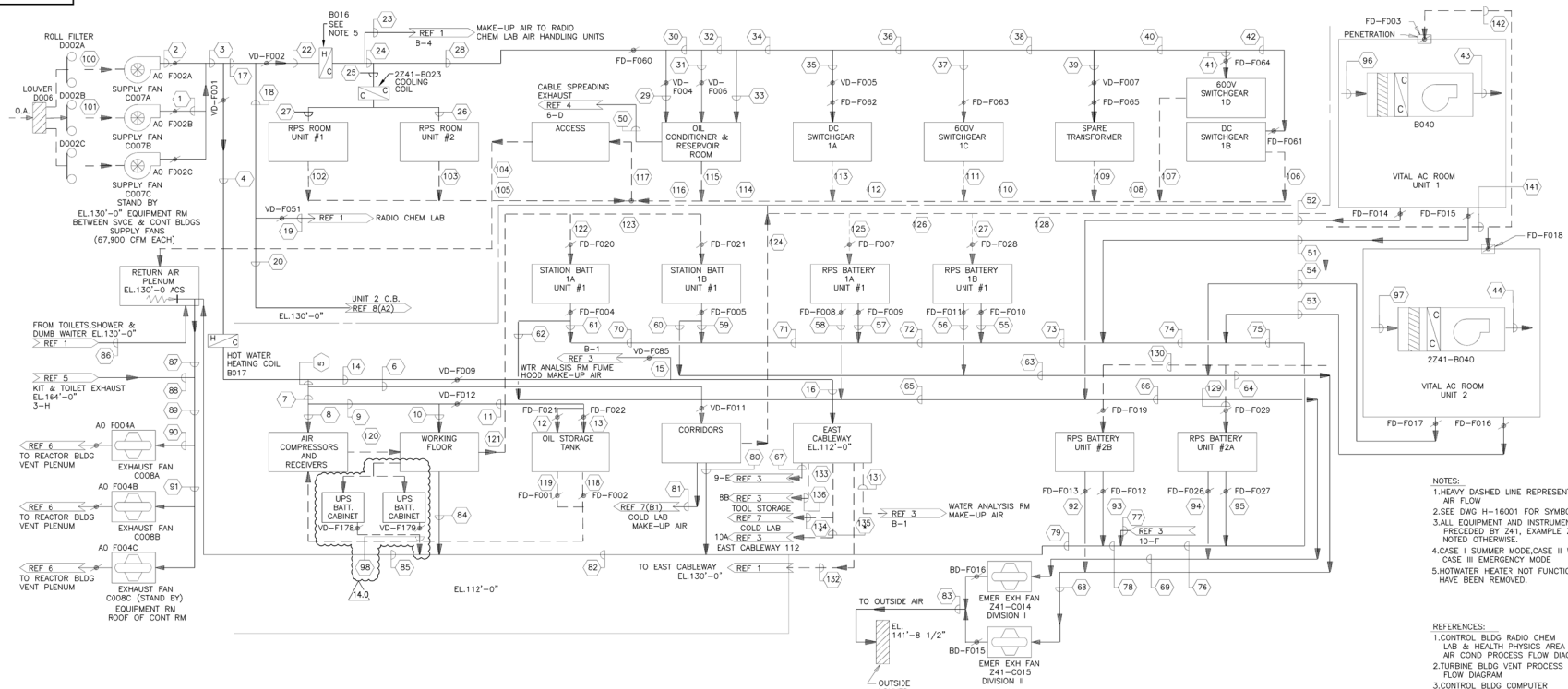
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6-5-70	None	10-502	H-16037	22.0
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12	13	DRAWING CATEGORY CRITICAL
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10091-H



NOTES:
 1. HEAVY DASHED LINE REPRESENTS NON-DUCTED AIR FLOW
 2. SEE DWG H-16001 FOR SYMBOL REFERENCES
 3. ALL EQUIPMENT AND INSTRUMENT NO'S ON THIS DWG PRECEDED BY 241, EXAMPLE 241-C007C, UNLESS NOTED OTHERWISE
 4. CASE 1 SUMMER MODE, CASE 2 WINTER MODE, CASE 3 EMERGENCY MODE
 5. HOTWATER HEATER NOT FUNCTIONAL, INTERNALS HAVE BEEN REMOVED.

REFERENCES:	MLP ITEM NO.	SS W/G NO.
1. CONTROL BLDG RADIO CHEM LAB & HEALTH PHYSICS AREA AIR COND PROCESS FLOW DIAG	241-1070	H-16044
2. TURBINE BLDG VENT PROCESS FLOW DIAG	U41-1020	H-16038
3. CONTROL BLDG COMPUTER ROOM-WATER ANALYSIS ROOM & INSTRUMENT STORAGE ROOM A/C PROCESS FLOW DIAG	241-1080	H-16045
4. CONT BLDG CABLE SPREADING ROOM EL147'-0" PROCESS FLOW DIAG	241-1090	H-16046
5. CONTROL BLDG CONTROL ROOM PROCESS FLOW DIAG	241-1060	H-16043
6. REACTOR BLDG VENT SYS PROCESS FLOW DIAG	T41-1040	H-16006
7. CONTROL BLDG COLD LAB EL 112'-0" PFD	Z41	H-40057
8. UNIT NO.2 CONTROL BLDG F&ID AND PROCESS FLOW DIAG	2241-1010	H-26093
9. CONTROL BLDG VENTILATION P&ID	241-1030	H-16040
10. CONTROL BLDG CHILLED WATER COLLING UNITS P&ID	2241-1010	H-51179

CASE	PARAMETER	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	○	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	
		CFM	87,900	87,900	135,800	25,250	18,400	7,800	10,800	4,800	6,000	3,600	2,400	1,200	1,200	6,850	850	6,000	110,550	58,950	2,550		43,750		51,600	2,600	48,000	1,800	900	900	45,000	4,400	40,600	2,200	38,400	4,400	3,400	2,700	31,300	9,600	21,700	9,600	12,100	9,600	2,500	6,800
I	CFM	87,900	87,900	135,800	25,250	18,400	7,800	10,800	4,800	6,000	3,600	2,400	1,200	1,200	6,850	850	6,000	110,550	58,950	2,550	43,750		51,600	2,600	48,000	4,000	2,000	2,000	45,000	4,400	40,600	2,200	38,400	4,400	3,400	2,700	31,300	9,600	21,700	9,600	12,100	9,600	2,500	6,800	6,800	
	CFM																																													
II	CFM																																													
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CASE	PARAMETER	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)	(63)	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	(77)	(78)	(79)	(80)	(81)	(82)	(83)	(84)	(85)	(86)	(87)	(88)	(89)	(90)	(91)	(92)	(95)		
		CFM	800	300		300		850		850		1,800		1,800						300			1,800	3,600	4,450	5,300	5,600	5,900	6,750	1,700	8,450	9,300	3,300	300	12,600	2,110	19,800	800	68,800	450	69,250	34,625	34,625	850			
I	CFM <td></td> <td>300</td> <td></td> <td>300</td> <td></td> <td></td> <td></td> <td>850</td> <td></td> <td>1,800</td> <td></td> <td>1,800</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>300</td> <td></td> <td></td> <td>1,800</td> <td>3,600</td> <td>4,450</td> <td>5,300</td> <td>5,600</td> <td>5,900</td> <td>6,750</td> <td>1,700</td> <td>8,450</td> <td>9,300</td> <td>3,300</td> <td>300</td> <td>12,600</td> <td>2,110</td> <td>19,800</td> <td>800</td> <td>68,800</td> <td>450</td> <td>69,250</td> <td>34,625</td> <td>34,625</td> <td>850</td>		300		300				850		1,800		1,800						300			1,800	3,600	4,450	5,300	5,600	5,900	6,750	1,700	8,450	9,300	3,300	300	12,600	2,110	19,800	800	68,800	450	69,250	34,625	34,625	850				
	CFM <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>																																														
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	CFM <td>67</td> <td></td> <td>300</td> <td></td> <td>300</td> <td></td> <td>850</td> <td></td> <td>850</td> <td></td> <td>1,800</td> <td></td> <td>1,800</td> <td>2,650</td> <td>2,950</td> <td>2,650</td> <td>1,150</td> <td></td> <td></td> <td>3,800</td> <td>3,800</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	67		300		300		850		850		1,800		1,800	2,650	2,950	2,650	1,150			3,800	3,800																									
III	CFM <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>																																														
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CASE	PARAMETER	(100)	(101)	(102)	(103)	(104)	(105)	(106)	(107)	(108)	(109)	(110)	(111)	(112)	(113)	(114)	(115)	(116)	(117)	(118)	(119)	(120)	(121)	(122)	(123)	(124)	(125)	(126)	(127)	(128)	(129)	(130)	(131)	(132)	(133)	(134)	(135)	(136)	○	○	○	○	(141)	(142)	○					
		CFM	67,900	67,900	900	900	48,200	1,800	2,500	9,600	12,100	9,600	21,700	9,600	31,300	31,300	2,700	34,000	10,200	44,200	48,200	2,400	2,400	7,200	3,600	1,800	1,800	4,000	850	3,150	850	2,300	850	850	400	3,700	1,400	1,400					200							
I	CFM <td>67,900</td> <td>67,900</td> <td>900</td> <td>900</td> <td>48,200</td> <td>1,800</td> <td>2,500</td> <td>9,600</td> <td>12,100</td> <td>9,600</td> <td>21,700</td> <td>9,600</td> <td>31,300</td> <td>31,300</td> <td>2,700</td> <td>34,000</td> <td>10,200</td> <td>44,200</td> <td>48,200</td> <td>2,400</td> <td>2,400</td> <td>7,200</td> <td>3,600</td> <td>1,800</td> <td>1,800</td> <td>4,000</td> <td>850</td> <td>3,150</td> <td>850</td> <td>2,300</td> <td>850</td> <td>850</td> <td>400</td> <td>3,700</td> <td>1,400</td> <td>1,400</td> <td>200</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	67,900	67,900	900	900	48,200	1,800	2,500	9,600	12,100	9,600	21,700	9,600	31,300	31,300	2,700	34,000	10,200	44,200	48,200	2,400	2,400	7,200	3,600	1,800	1,800	4,000	850	3,150	850	2,300	850	850	400	3,700	1,400	1,400	200												
	CFM <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>																																																	
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* INFILTRATION TO EITHER THE COLD LAB OR EAST CABLEWAY EL.112'-0"

Version: 14.0 Date: 2/25/16

REVISED PER ABN SNC47666M005, VER. 1.0

NO.	DATE	BY	CHKD	APP'D
1	7-09-70	JLO	CYN	TSL

MLP NO. Z41-1030

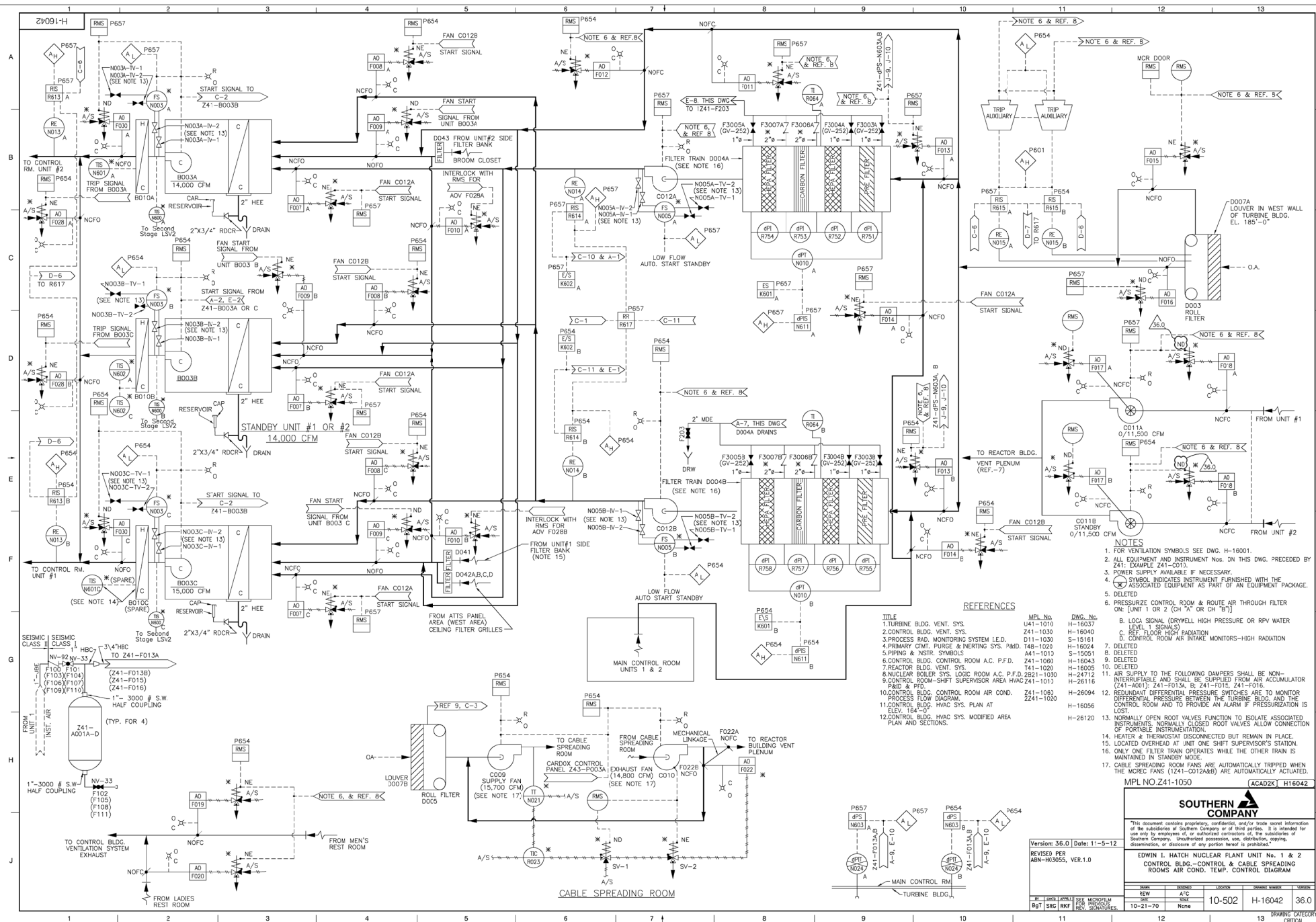
ACAD H16041

SOUTHERN COMPANY


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EDWIN I. HATCH NUCLEAR PLANT Unit No. 1
CONTROL BUILDING
VENTILATION PROCESS FLOW DIAGRAM

NO.	DATE	BY	CHKD	APP'D
1	7-09-70	JLO	CYN	TSL



NOTES

1. FOR VENTILATION SYMBOLS SEE DWG. H-16001.
2. ALL EQUIPMENT AND INSTRUMENT NOS. ON THIS DWG. PRECEDED BY Z41; EXAMPLE Z41-C010.
3. POWER SUPPLY AVAILABLE IF NECESSARY.
4.  SYMBOL INDICATES INSTRUMENT FURNISHED WITH THE ASSOCIATED EQUIPMENT AS PART OF AN EQUIPMENT PACKAGE.
5. DELETED
6. PRESSURE/CONTROL ROOM & ROUTE AIR THROUGH FILTER ON: (UNIT 1 OR 2) (CH "A" OR CH "B")

REFERENCE

- | TITLE | DATE |
|---|---------|
| 1.TURBINE BLDG. VENT. SYS. | 11-1-78 |
| 2.CONTROL BLDG. VENT. SYS. | 11-1-78 |
| 3.PROCESS RAD. MONITORING SYSTEM I.E.D. | 11-1-78 |
| 4.PRIMARY CMT. PURGE & INERTING SYS. P&ID | 11-1-78 |
| 5.PIPING & INSTR. SYMBOLS | 11-1-78 |
| 6.CONTROL BLDG. CONTROL ROOM A.C. P.F.D. | 11-1-78 |
| 7.REACTOR BLDG. VENT. SYS. | 11-1-78 |
| 8.NUCLEAR BOILER SYS. LOGIC ROOM A.C. P.F.D. | 11-1-78 |
| 9.CONTROL ROOM-SHIFT SUPERVISOR AREA P&ID & PFD. | 11-1-78 |
| 10.CONTROL BLDG. CONTROL ROOM AIR COND. PROCESS FLOW DIAGRAM. | 11-1-78 |
| 11.CONTROL BLDG. HVAC SYS. PLAN AT FLEV. 164'-0" | 11-1-78 |
| 12.CONTROL BLDG. HVAC SYS. MODIFIED AREA PLAN AND SECTIONS. | 11-1-78 |

MPL No.	DWG. No.
U41-1010	H-16037
Z41-1030	H-16040
D11-1030	S-15161
R&ID. T48-1020	H-16024
A41-1013	S-15051
Z41-1060	H-16043
T41-1020	H-16005
F.D. 2B21-1030	H-24712
HVAC Z41-1013	H-26116
Z41-1063	H-26094
2241-1020	H-16056
	H-26120

- B. LOCAL SIGNAL DRYWELL HIGH PRESSURE OR RVP WATER LEVEL 1 SIGNALS
- C. CONTROL ROOM HIGH RADIATION
- D. CONTROL ROOM AIR INTAKE MONITORS-HIGH RADIATION

7. DELETED

8. DELETED

9. DELETED

10. DELETED

11. AIR SUPPLY TO THE FOLLOWING DAMPERS SHALL BE NON-INTERFERABLE AND SHALL BE SUPPLIED FROM AIR ACCUMULATOR 241-101, 241-102, 241-103, 241-104, 241-105, 241-106, 241-107, 241-108, 241-109, 241-110, 241-111, 241-112, 241-113, 241-114, 241-115, 241-116, 241-117, 241-118, 241-119, 241-120, 241-121, 241-122, 241-123, 241-124, 241-125, 241-126, 241-127, 241-128, 241-129, 241-130, 241-131, 241-132, 241-133, 241-134, 241-135, 241-136, 241-137, 241-138, 241-139, 241-140, 241-141, 241-142, 241-143, 241-144, 241-145, 241-146, 241-147, 241-148, 241-149, 241-150, 241-151, 241-152, 241-153, 241-154, 241-155, 241-156, 241-157, 241-158, 241-159, 241-160, 241-161, 241-162, 241-163, 241-164, 241-165, 241-166, 241-167, 241-168, 241-169, 241-170, 241-171, 241-172, 241-173, 241-174, 241-175, 241-176, 241-177, 241-178, 241-179, 241-180, 241-181, 241-182, 241-183, 241-184, 241-185, 241-186, 241-187, 241-188, 241-189, 241-190, 241-191, 241-192, 241-193, 241-194, 241-195, 241-196, 241-197, 241-198, 241-199, 241-200, 241-201, 241-202, 241-203, 241-204, 241-205, 241-206, 241-207, 241-208, 241-209, 241-210, 241-211, 241-212, 241-213, 241-214, 241-215, 241-216, 241-217, 241-218, 241-219, 241-220, 241-221, 241-222, 241-223, 241-224, 241-225, 241-226, 241-227, 241-228, 241-229, 241-230, 241-231, 241-232, 241-233, 241-234, 241-235, 241-236, 241-237, 241-238, 241-239, 241-240, 241-241, 241-242, 241-243, 241-244, 241-245, 241-246, 241-247, 241-248, 241-249, 241-250, 241-251, 241-252, 241-253, 241-254, 241-255, 241-256, 241-257, 241-258, 241-259, 241-260, 241-261, 241-262, 241-263, 241-264, 241-265, 241-266, 241-267, 241-268, 241-269, 241-270, 241-271, 241-272, 241-273, 241-274, 241-275, 241-276, 241-277, 241-278, 241-279, 241-280, 241-281, 241-282, 241-283, 241-284, 241-285, 241-286, 241-287, 241-288, 241-289, 241-290, 241-291, 241-292, 241-293, 241-294, 241-295, 241-296, 241-297, 241-298, 241-299, 241-300, 241-301, 241-302, 241-303, 241-304, 241-305, 241-306, 241-307, 241-308, 241-309, 241-310, 241-311, 241-312, 241-313, 241-314, 241-315, 241-316, 241-317, 241-318, 241-319, 241-320, 241-321, 241-322, 241-323, 241-324, 241-325, 241-326, 241-327, 241-328, 241-329, 241-330, 241-331, 241-332, 241-333, 241-334, 241-335, 241-336, 241-337, 241-338, 241-339, 241-340, 241-341, 241-342, 241-343, 241-344, 241-345, 241-346, 241-347, 241-348, 241-349, 241-350, 241-351, 241-352, 241-353, 241-354, 241-355, 241-356, 241-357, 241-358, 241-359, 241-360, 241-361, 241-362, 241-363, 241-364, 241-365, 241-366, 241-367, 241-368, 241-369, 241-370, 241-371, 241-372, 241-373, 241-374, 241-375, 241-376, 241-377, 241-378, 241-379, 241-380, 241-381, 241-382, 241-383, 241-384, 241-385, 241-386, 241-387, 241-388, 241-389, 241-390, 241-391, 241-392, 241-393, 241-394, 241-395, 241-396, 241-397, 241-398, 241-399, 241-400, 241-401, 241-402, 241-403, 241-404, 241-405, 241-406, 241-407, 241-408, 241-409, 241-410, 241-411, 241-412, 241-413, 241-414, 241-415, 241-416, 241-417, 241-418, 241-419, 241-420, 241-421, 241-422, 241-423, 241-424, 241-425, 241-426, 241-427, 241-428, 241-429, 241-430, 241-431, 241-432, 241-433, 241-434, 241-435, 241-436, 241-437, 241-438, 241-439, 241-440, 241-441, 241-442, 241-443, 241-444, 241-445, 241-446, 241-447, 241-448, 241-449, 241-450, 241-451, 241-452, 241-453, 241-454, 241-455, 241-456, 241-457, 241-458, 241-459, 241-460, 241-461, 241-462, 241-463, 241-464, 241-465, 241-466, 241-467, 241-468, 241-469, 241-470, 241-471, 241-472, 241-473, 241-474, 241-475, 241-476, 241-477, 241-478, 241-479, 241-480, 241-481, 241-482, 241-483, 241-484, 241-485, 241-486, 241-487, 241-488, 241-489, 241-490, 241-491, 241-492, 241-493, 241-494, 241-495, 241-496, 241-497, 241-498, 241-499, 241-500, 241-501, 241-502, 241-503, 241-504, 241-505, 241-506, 241-507, 241-508, 241-509, 241-510, 241-511, 241-512, 241-513, 241-514, 241-515, 241-516, 241-517, 241-518, 241-519, 241-520, 241-521, 241-522, 241-523, 241-524, 241-525, 241-526, 241-527, 241-528, 241-529, 241-530, 241-531, 241-532, 241-533, 241-534, 241-535, 241-536, 241-537, 241-538, 241-539,

MPL NO.Z41-1050

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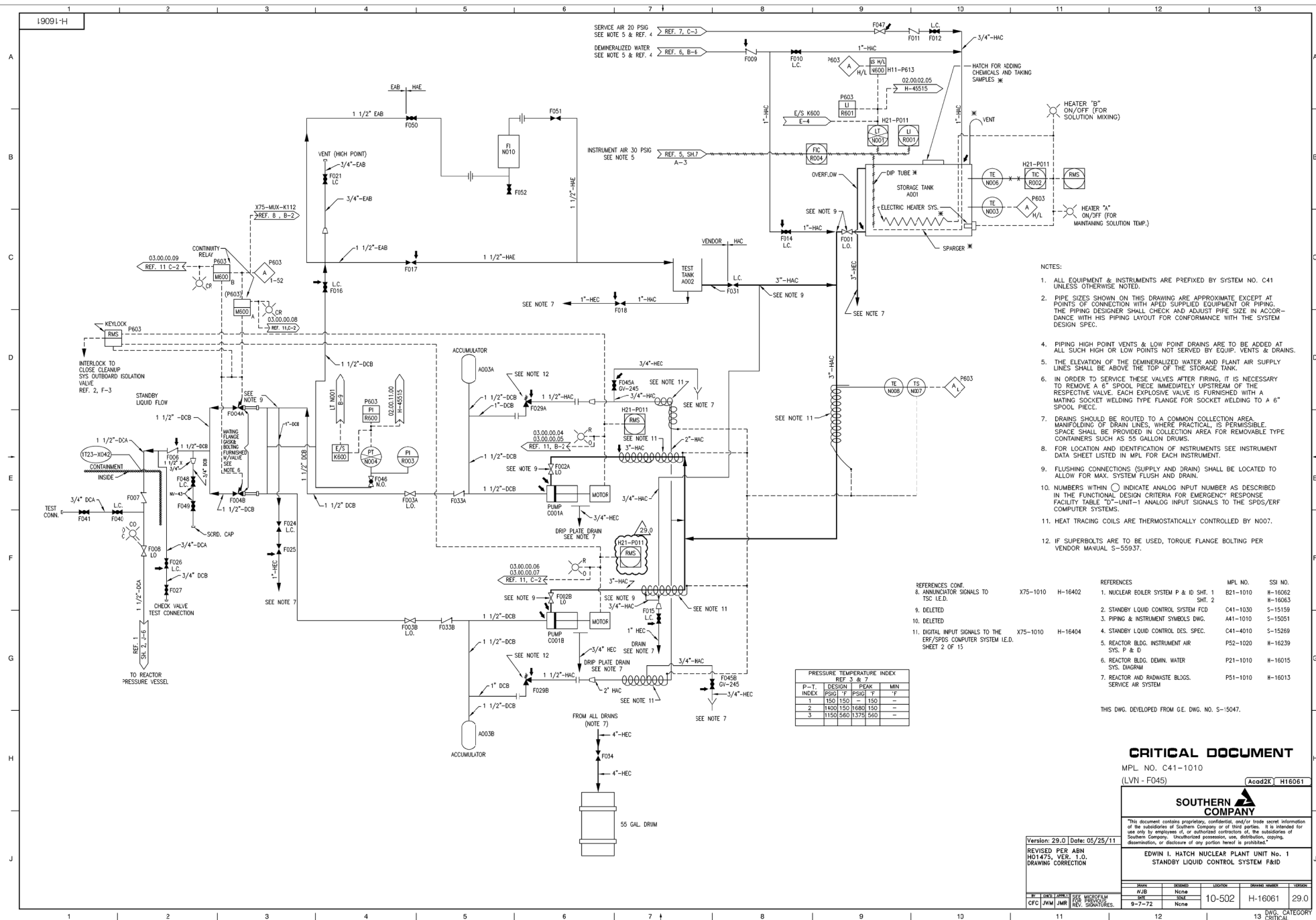
EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1 & 2
CONTROL BLDG.-CONTROL & CABLE SPREADING
ROOMS AIR COND. TEMP. CONTROL DIAGRAM

Version: 36.0 | Date: 11-5-REVISÉ PER
ABN-H03055, VER.

	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	76.0	80.0	83.0	86.0	89.0	92.0	95.0	98.0	100.0
GDP per capita	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600
Life expectancy at birth	65	68	71	74	77	80	83	86	89
Urban population (%)	30	35	40	45	50	55	60	65	70
Employment in agriculture (%)	40	35	30	25	20	15	10	5	0
Government expenditure as % of GDP	10	12	14	16	18	20	22	24	26
Foreign aid as % of GDP	5	6	7	8	9	10	11	12	13
Healthcare expenditure as % of GDP	2	3	4	5	6	7	8	9	10
Primary school enrollment rate (%)	50	60	70	80	90	95	98	99	100
Secondary school enrollment rate (%)	20	30	40	50	60	70	80	90	95
Tertiary education enrollment rate (%)	5	10	15	20	25	30	35	40	45
Research and development expenditure as % of GDP	0.5	0.8	1.2	1.6	2.0	2.5	3.0	3.5	4.0
Patent applications per million people	10	20	30	40	50	60	70	80	90
Internet usage percentage	0	0	0	0	0	0	0	0	0
Air travel per person	0	0	0	0	0	0	0	0	0
Mobile phone ownership per 100 people	0	0	0	0	0	0	0	0	0
Electricity consumption per capita	100	200	300	400	500	600	700	800	900
Household refrigerator ownership (%)	0	0	0	0	0	0	0	0	0
Automobile ownership per 100 people	0	0	0	0	0	0	0	0	0
Unemployment rate (%)	5	6	7	8	9	10	11	12	13
Inequality index	0.30	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.46
Gender inequality index	0.20	0.22	0.24	0.26	0.28	0.30	0.32	0.34	0.36
Human Development Index	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90
Corruption perception index	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
Environmental quality index	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Renewable energy consumption as % of total	10	12	14	16	18	20	22	24	26
Fossil fuel consumption as % of total	90	88	86	84	82	80	78	76	74
Nuclear power generation capacity (MW)	0	0	0	0	0	0	0	0	0
Solar panel installations (GW)	0	0	0	0	0	0	0	0	0
Wind power installations (GW)	0	0	0	0	0	0	0	0	0
Hydroelectric power installations (GW)	0	0	0	0	0	0	0	0	0
Biomass power installations (GW)	0	0	0	0	0	0	0	0	0
Geothermal power installations (GW)	0	0	0	0	0	0	0	0	0
Fusion power installations (GW)	0	0	0	0	0	0	0	0	0
Artificial intelligence research funding (\$Bn)	0	0	0	0	0	0	0	0	0
Space exploration budget (\$Bn)	0	0	0	0	0	0	0	0	0
Cybersecurity spending (\$Bn)	0	0	0	0	0	0	0	0	0
Quantum computing investment (\$Bn)	0	0	0	0	0	0	0	0	0
Blockchain technology adoption (%)	0	0	0	0	0	0	0	0	0
Virtual reality market size (\$Bn)	0	0	0	0	0	0	0	0	0
Augmented reality market size (\$Bn)	0	0	0	0	0	0	0	0	0
Robotics industry revenue (\$Bn)	0	0	0	0	0	0	0	0	0
Autonomous vehicle testing miles	0	0	0	0	0	0	0	0	0
Drone delivery trials completed	0	0	0	0	0	0	0	0	0
Smart city initiatives launched	0	0	0	0	0	0	0	0	0
Digital privacy legislation passed	0	0	0	0	0	0	0	0	0
Ethical AI frameworks adopted	0	0	0	0	0	0	0	0	0
AI bias audits conducted	0	0	0	0	0	0	0	0	0
Transparency in algorithm decisions	0	0	0	0	0	0	0	0	0
Data protection regulations implemented	0	0	0	0	0	0	0	0	0
Digital rights advocacy groups formed	0	0	0	0	0	0	0	0	0
Open source software projects funded	0	0	0	0	0	0	0	0	0
Digital literacy programs launched	0	0</							

			DRAWN		DESIGNED	LOCATION	DRAWING NUMBER	VERSION
			REW		AFC	10-502	H-16042	36.
			DATE		SOLE			
			10-21-70		None			

DRAWING CATEGORY



CRITICAL DOCUMENT

MPL NO. C41-1010

(LVN - F045)

Acad2K H16061

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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
STANDBY LIQUID CONTROL SYSTEM F&ID

Version: 29.0	Date: 05/25/11
REVISED PER ABN H01475, VER. 1.0. DRAWING CORRECTION	

1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810

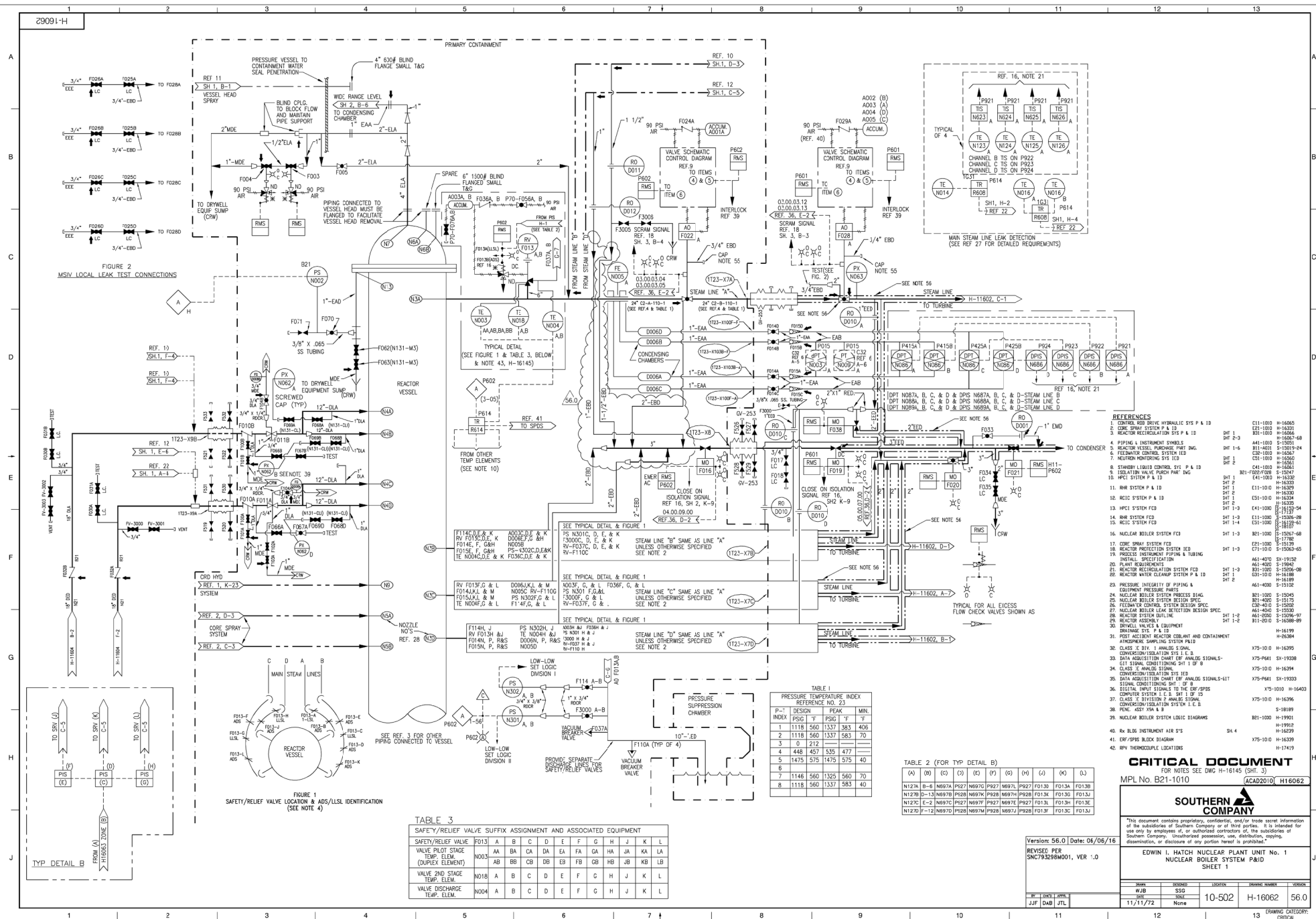
BY	CH'D	APPL	SEE
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CFC	JWM	JMR	FOR REV.
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11

12	13	DWG. CATEGORY CRITICAL
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SOCIETY OF AMERICAN ARCHITECTS



CRITICAL DOCUMENT
FOR NOTES SEE DWG H-16145 (SHT. 3)

MPL No. B21-1010 ACAD2010 H16062

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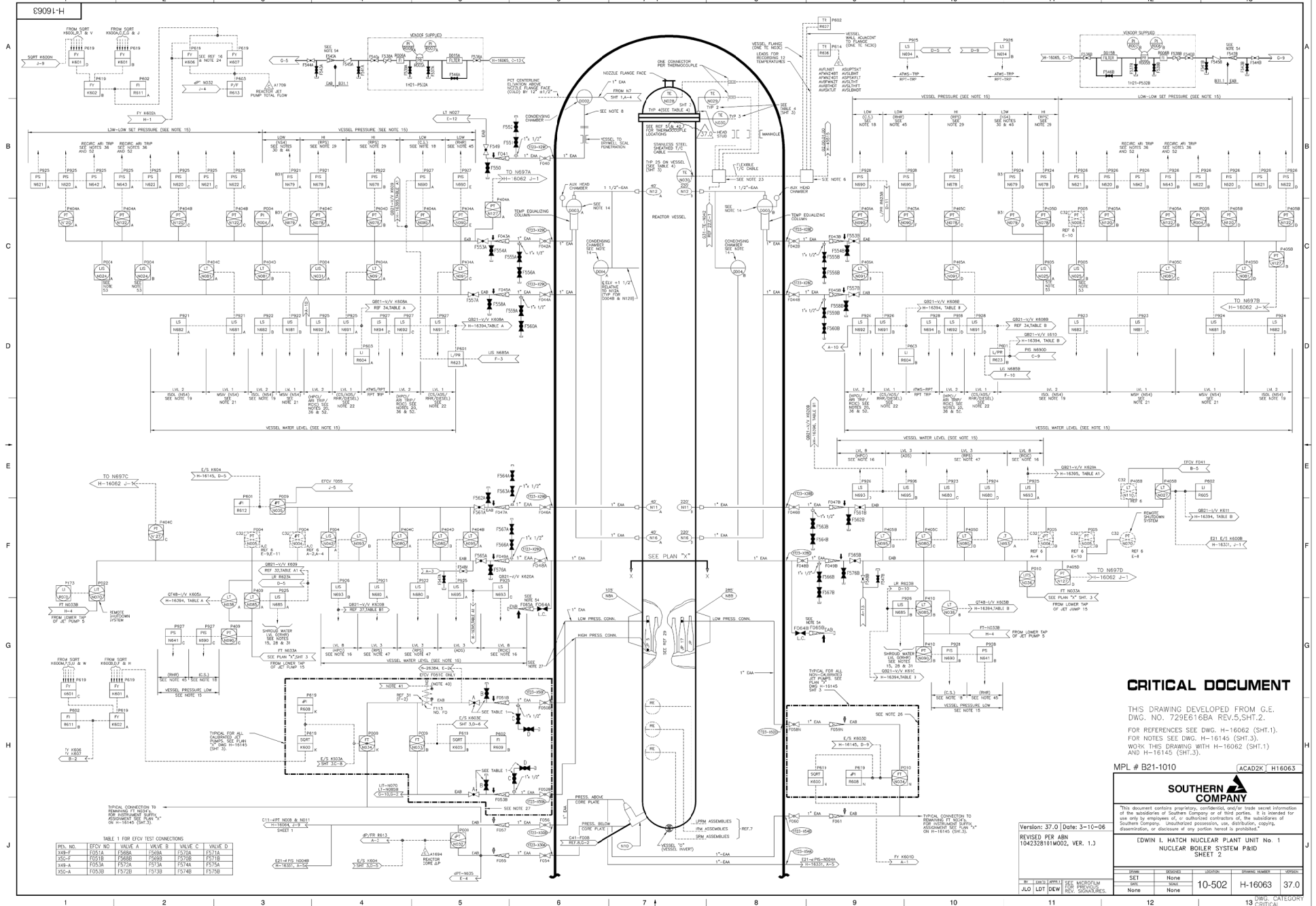
Version: 56.0	Date: 06/06/16
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REVISION PER
CNC7030001004 MED 1.0

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

DRWN	DESIGNED	LOCATION	DRAWING NUMBER	VERSION
WJB	SSG	10-502	H-16062	56
DATE	SCALE			

DRAWING CATEGORY



CRITICAL DOCUMENT

THIS DRAWING DEVELOPED FROM G.E.
DWG. NO. 729E616BA REV.5,SHT.2.

FOR REFERENCES SEE DWG. H-16062 (SHT.1).
FOR NOTES SEE DWG. H-16145 (SHT.3).

WORK THIS DRAWING WITH H-16062 (SHT.1)
AND H-16145 (SHT.3).

MPL # B21-1010 ACAD2K H16063

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

OWNER	DESIGNED	LOCATION	DRAWING NUMBER	VERSION
SET	None	10-502	H-16063	37.0
DATE	SCALE			
None	None			

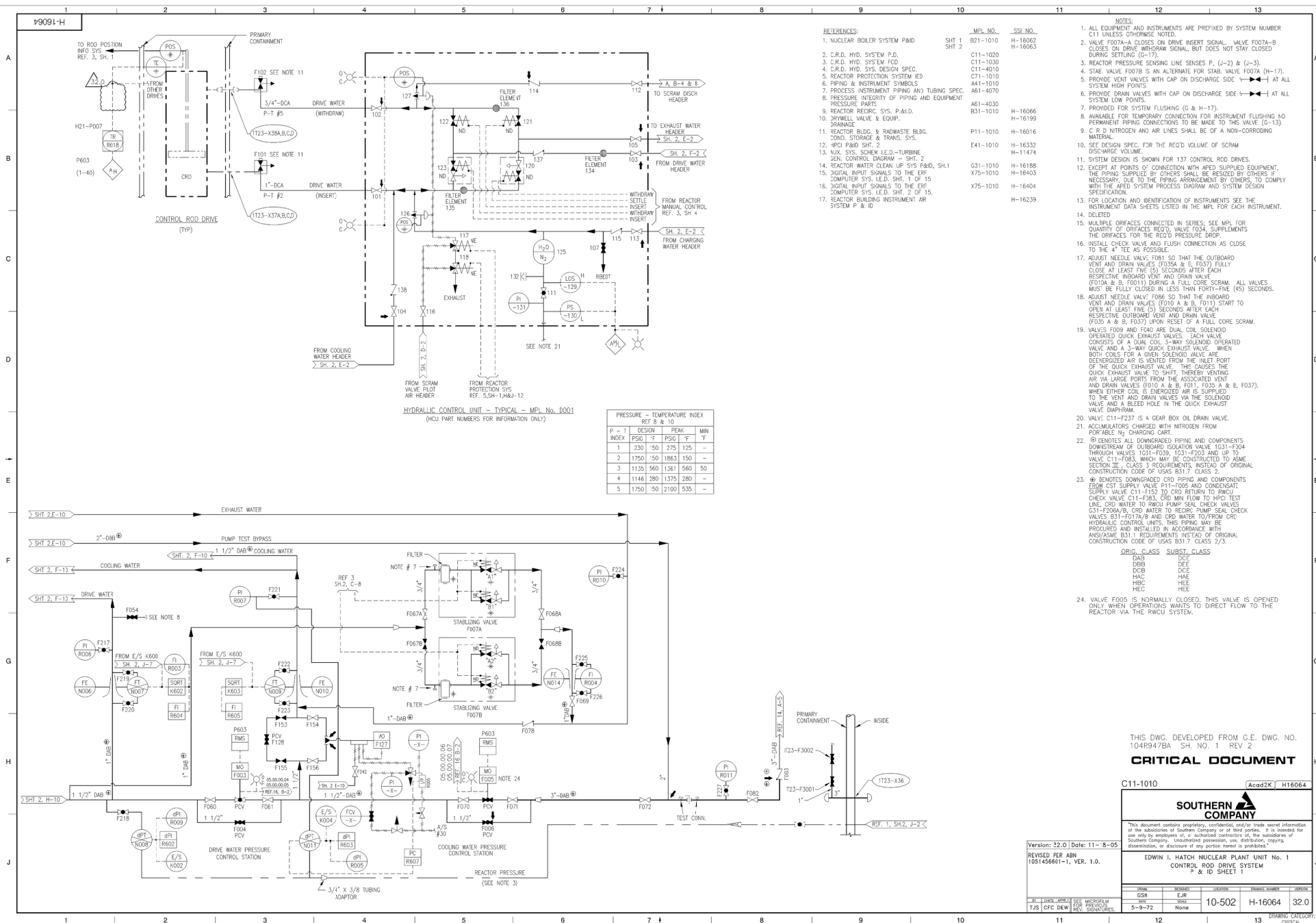
Version: 37.0 Date: 3-10-06

REVISED PER ABN
1042328101M002 VED 1.2

1042328101MO02, VER. 1.3

REV	CHG'D	APPROV'D	SEE MICROFILM FOR PREVIOUS SIGNATURES
JLO	LDT	DEW	

12	13	DWG. CATEGORY
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THIS DWG. DEVELOPED FROM G.E. DWG. NO.
104P947BA SH. NO. 1 REV 2

CRITICAL DOCUMENT

C11-1010

Acad2K H16064



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Version: 32.0	Date: 11-18-05
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REVISÉ PER ABN

CONTROL ROD DRIVE SYSTEM

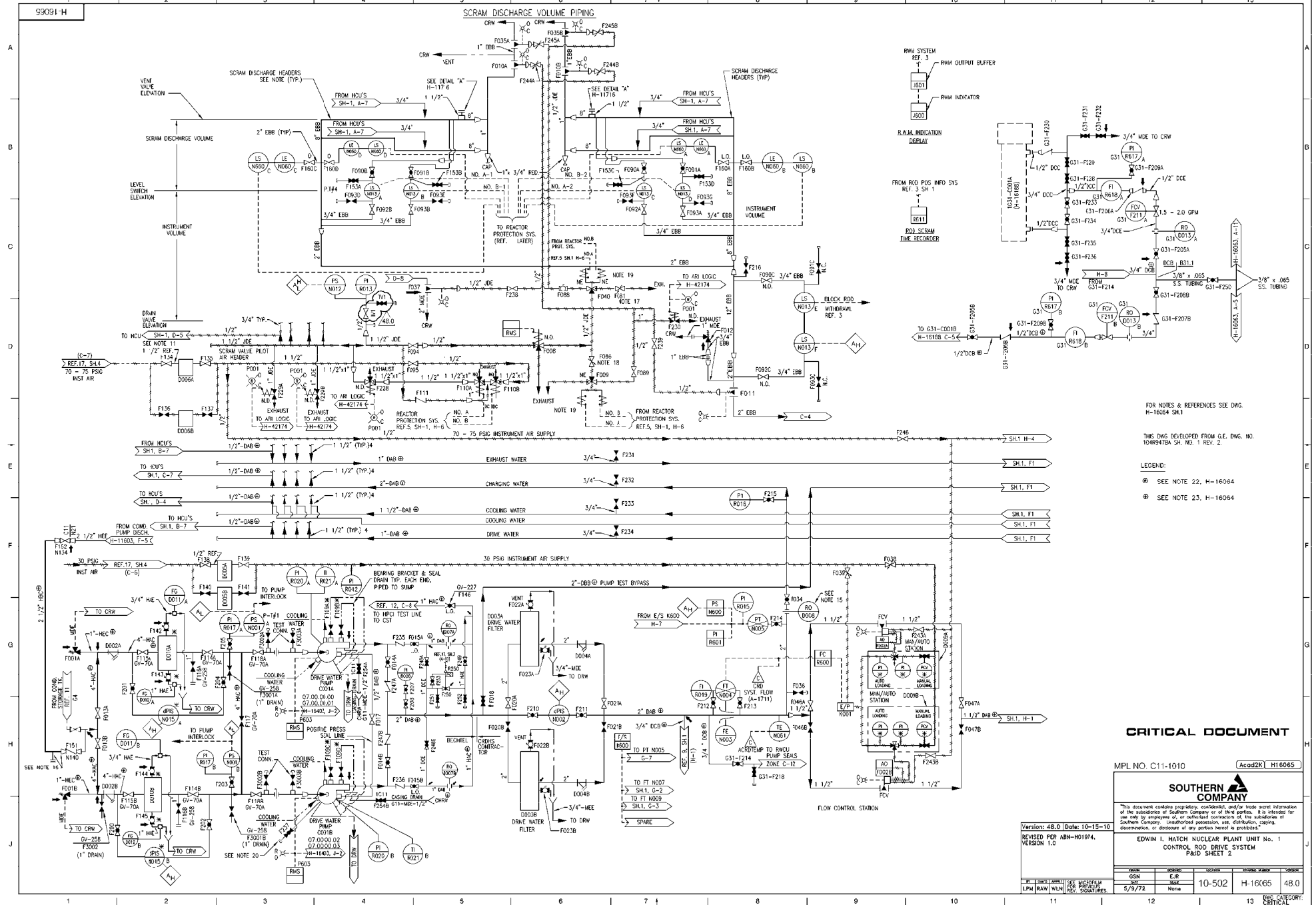
F & ID SHEET 1

DRAB	DESIGN	LOCATION	DRAWING NUMBER	VERSION
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37	CHS 4008.1	SEE MICROFILM	GSH	EJR	10-502	H-16064	32.0
			DATE	SCALE			

TJS	CFC	DEW	FOR PREVIOUS REV. SIGNATURES.	5-9-72	None	10-000	11-000	12-000
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11	12	13	DRAWING CATEGORY CRITICAL
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CRITICAL DOCUMENT

MPL NO. C11-1010

Acad2K H16065

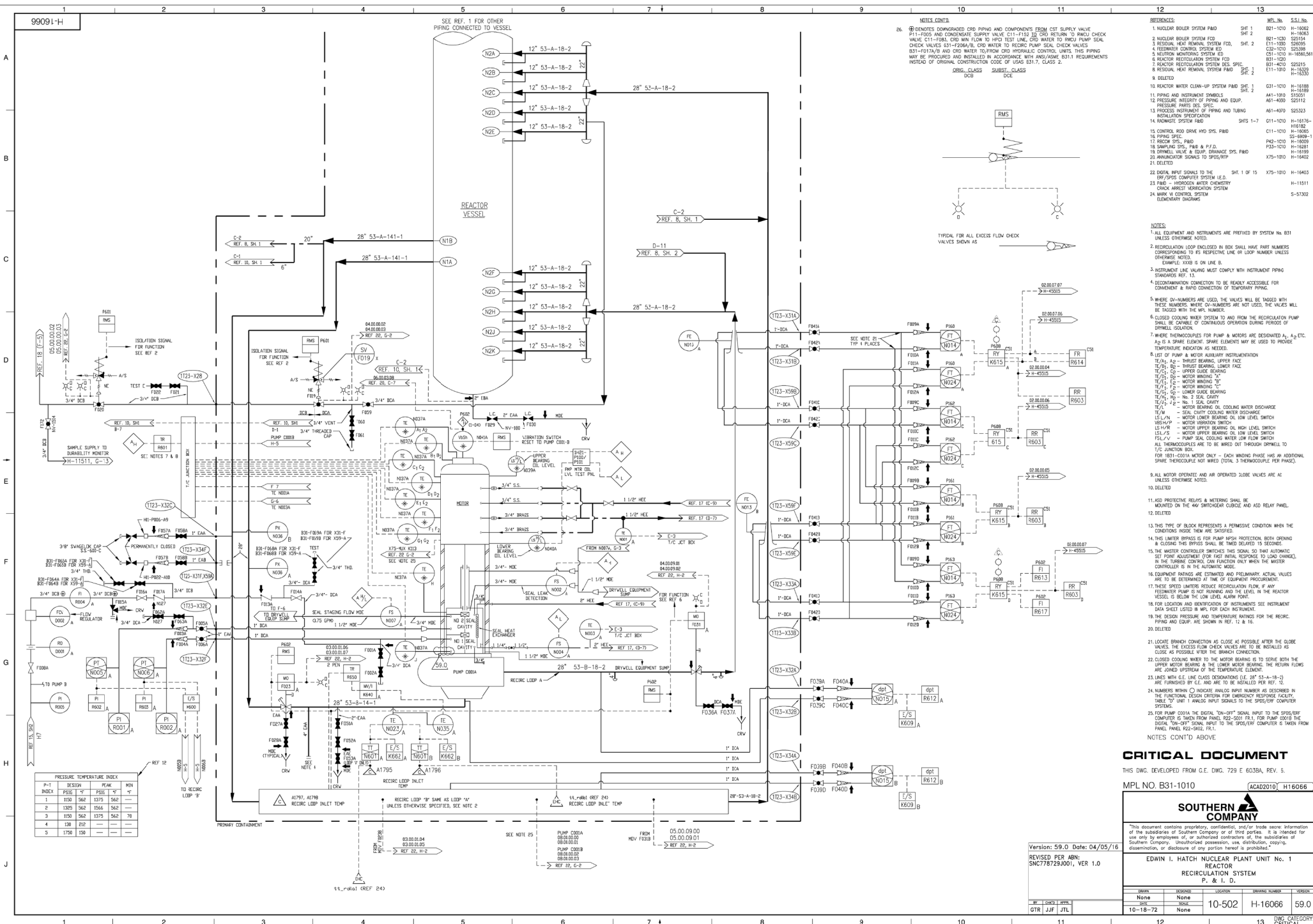
SOUTHERN
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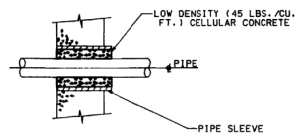
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
CONTROL ROD DRIVE SYSTEM
END SHEET 2

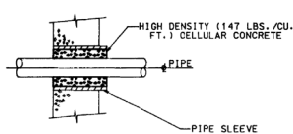
Version: 48.0	Date: 10-15-10
REVISED PER ABN-H01974, VERSION 1.0	

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TRAIN	DEST	LOCATION	STORAGE MARK	USG																			
GSN	EJR	10-502	H-16065	48.0																			
SP1	SEA																						
5/9/72	None																						
<table><tr><td>BY</td><td>DATE</td><td>APPV</td><td>SEE FOR PREVIOUS REV.</td><td>MICROFILM PREVIOUS SIGNATURES.</td></tr><tr><td>LPM</td><td>RAW</td><td>WLN</td><td></td><td></td></tr></table>					BY	DATE	APPV	SEE FOR PREVIOUS REV.	MICROFILM PREVIOUS SIGNATURES.	LPM	RAW	WLN			11		12		13 DWG. CATEGORY CRITICAL				
BY	DATE	APPV	SEE FOR PREVIOUS REV.	MICROFILM PREVIOUS SIGNATURES.																			
LPM	RAW	WLN																					

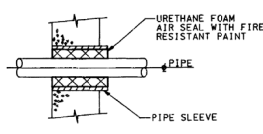


**TYPE #1**

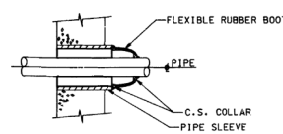
USED AS AIR SEAL FOR COLD PIPE AS FIRE STOP

**TYPE #2**

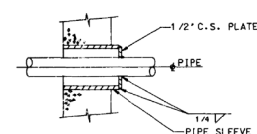
USED AS A RADIATION SHIELD, AIR SEAL, AND FIRE STOP FOR COLD PIPE.

**TYPE #3**

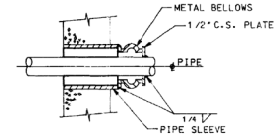
USED AS AIR SEAL FOR COLD PIPE

**TYPE #4**

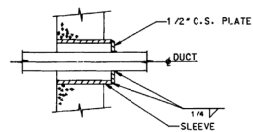
USED AS AIR SEAL FOR HOT PIPE

**TYPE #5**

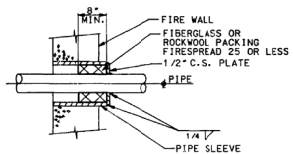
USED AS AIR OR WATER SEAL FOR COLD & HOT PIPES WHICH CAN BE ANCHORED & PENETRATIONS.

**TYPE #6**

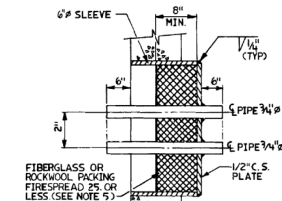
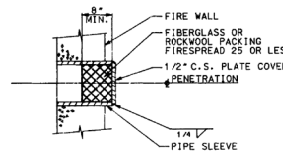
USED AS AIR OR WATER SEAL FOR HOT PIPE

**TYPE #7**

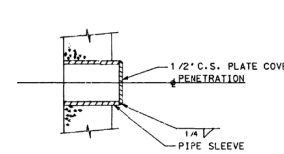
USED AS AIR OR WATER SEAL FOR VENTILATION DUCT.

**TYPE #8**

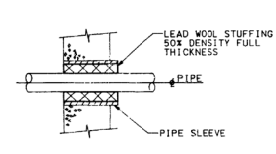
USED AS AIR OR WATER SEAL FOR COLD & HOT PIPE WHICH CAN BE ANCHORED & PENETRATIONS IN FIRE WALLS.

**TYPE #8A****TYPE #9**

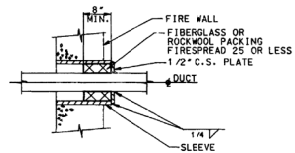
USED FOR SPARE PENETRATION THRU FIRE WALLS

**TYPE #10**

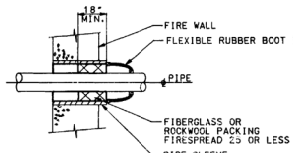
USED FOR SPARE PENETRATION

**TYPE #11**

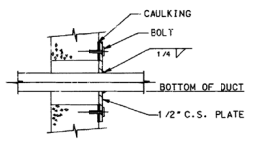
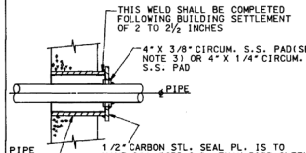
USED FOR SHIELDING

**TYPE #12**

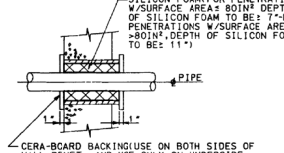
USED AS AIR OR WATER SEAL ON VENTILATION DUCT PENETRATIONS THRU FIRE WALL

**TYPE #13**

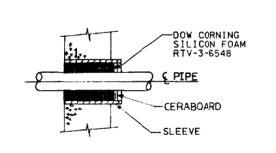
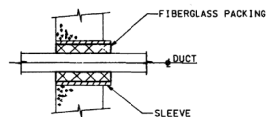
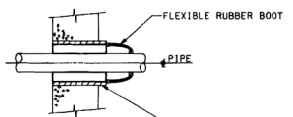
USED AS AIR SEAL FOR HOT PIPE THRU FIRE WALLS

**TYPE #14****TYPE #15**

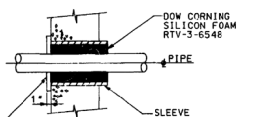
SEE NOTE 4

**TYPE #16**

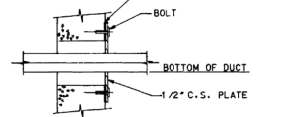
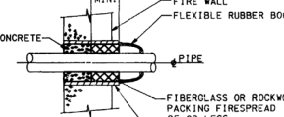
FOR USE AS AIR SEAL AND/OR FIRE BARRIER FOR COLD PIPE

**TYPE #17****TYPE #18****TYPE #19**

USED AS AIR SEAL FOR HOT PIPE THRU FIRE WALLS

**TYPE #20**

FOR USE AS AIR SEAL AND/OR FIRE BARRIER FOR COLD PIPE

**TYPE #21****TYPE #22**

USED AS AIR SEAL FOR HOT PIPE THRU FIRE WALLS

NOTES

1. ALL SEALING DETAILS AS SHOWN THROUGH FIRE WALLS ARE NEPIA APPROVED AS FIRE STOPS.
2. SEAL ALL PENETRATIONS THRU BLDG. EXTERIOR WALL BEFORE FUEL LOAD.
3. STAINLESS STEEL PAD SHALL ONLY BE UTILIZED WHERE THIS SEAL TYPE IS APPLIED TO STAINLESS STEEL PIPING. NO PAD IS REQUIRED ON CARBON STEEL PIPING.
4. THIS SEAL TYPE SHALL ONLY BE UTILIZED FOR BURIED PIPING ENTERING A BLDG. AT THE EXTERIOR WALL.
5. KAOVOL MAY BE SUBSTITUTED FOR ROCKWOOL IF THE THICKNESS OF THE SAME IS AT LEAST NINE (9) INCHES.
6. THIS DRAWING TO BE WORKED WITH H-1610
7. FOR FIRE WALLS, USE DRAWINGS B-1962B AND B-23275 FOR UNIT 1 AND UNIT 2 PENETRATION SEAL DETERMINATION TYPE NOT H-16110.

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EDWIN I. HATCH NUCLEAR PLANT UNIT No.1&2
TYPES OF PENETRATION SEALS FOR PIPE & DUCT

Version: 11.0 | Date: 6/26/2014
REVISED PER
ABN-160574, VER. 1.0

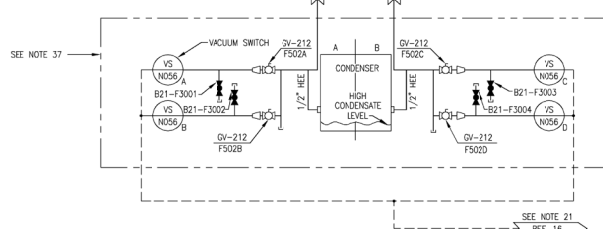
REV	DATE	BY	CHKD	APPD
1	1-23-84	MBF	JTL	

REV	DATE	BY	CHKD	APPD
1	10-502	None		

10-502 H-16'10 11.0

JET PUMP	ISOLATION VALVE	EFVC
J1	F058B	F059B
J2	F058D	F059D
J3	F058F	F059F
J4	F058H	F059H
J5	F050B	F051B
	F052B	F053B
J6	F059M	F059M
J7	F058P	F059P
J8	F058S	F059S
J9	F058U	F059U
J10	F050D	F051D
	F052D	F053D
J11	F058A	F059A
J12	F058C	F059C
J13	F058E	F059E
J14	F058G	F059G
J15	F050A	F051A
	F052A	F053A
J16	F058L	F059L
J17	F058N	F059N
J18	F058R	F059R
J19	F058T	F059T
J20	F050C	F051C
	F052C	F053C

TYPE 1 THERMOCOUPLE TAG Nos.	
B21-N030A1	B21-N030J2
B21-N030A2	B21-N030J3
B21-N030A3	B21-N030K1
B21-N030B1	B21-N030K2
B21-N030B2	B21-N030K3
B21-N030B3	B21-N030L1
B21-N030D1	B21-N030L2
B21-N030D2	B21-N030L3
B21-N030E1	B21-N030M1
B21-N030E2	B21-N030M2
B21-N030F1	B21-N030M3
B21-N030F2	B21-N028A1
B21-N030F3	B21-N028A2
B21-N030H1	B21-N028B1
B21-N030H2	B21-N028B2
B21-N030H3	B21-N029A1
B21-N030J1	B21-N029A2



- NOTES: CONTINUED

39. PX TO 17, INSTALLED IN A STRAIGHT RUN IN T2 FLOWMETER PIPE 4" CF-700 G OF ELBOWS ETC. LOCATED 20' FROM THE FLOWMETER TAPS IN THE FLOWMETER NOZZLES ARE EQUAL. PRESSURE TAPS WERE INSTALLED IN THE FLOWMETER TAPS 4" IN. THE PRESSURE TAPS WERE ALSO TO BE EQUAL. PENETRATING THE FLOWMETER TAPS TO THE FLOWMETER PRESSURE TRANSDUCERS DURING START-UP.
40. SOLIDWELD WELD 1113 IS LOCATED IN L.P. CONNECTION OF SENSING LINE TO 101-113 AND 101-117 AUTOMATIC.
41. 101-117 WELD TO 101-113 WELD FOR AUTOMATIC CONTROL.
42. DELTID
43. THE AIR MECHANICATOR AND AIR LINE VALVES ARE ASSIGNED WITH EACH SIXTY RELIEF VALVE ARE ASSOCIATED THE SAME AIR LINE. THE RELIEF VALVE IS ASSIGNED TO THE AIR LINE FOR THE TAP STRINGS SEE INP-1 INSTRUMENT SETTING.
44. RETAIN COUPLER OF RECOILATION PUMP DISCHARGE WELD.
45. AIR TRANSDUCER (BUTSONOW COOLING MODE).
46. (SOP) 101-117 AND CLOSURE PUMP CONTAINMENT ISOLATION SYSTEMS EXCEPT FOR THE FOLLOWING:
 - a) MWP'S
 - b) MWP DRAIN ISOLATION VALVES
 - c) REACTOR WATER SAMP. ISOLATION VALVES
 - d) REACTOR ISOLATION VALVES
47. ALL INSTRUMENTS HAVE VALVE ARRANGEMENTS OF TYPE "N".
48. ALL INSTRUMENTS HAVE VALVE ARRANGEMENTS TYPICAL.

- NOTE

- [illegible]

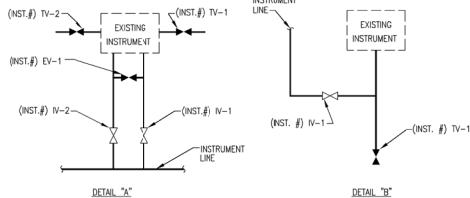
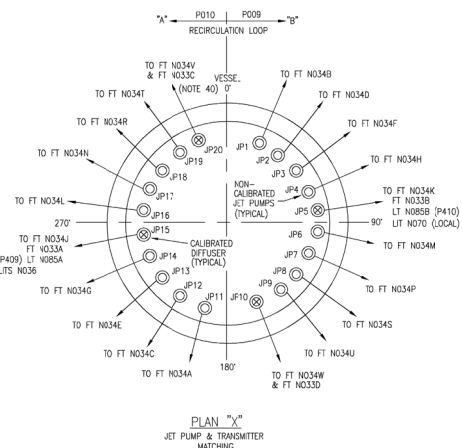


TABLE 2
ELEVATION CORRELATION CHART (SEE NOTE 5)



REFERENCE	(COLD VESSEL) INCHES ABOVE VESSEL ZERO	DESCRIPTION OF TRIPS	INSTRUMENT(S) PROVIDING TRIP	REACTOR VESSEL LEVELS REF. 25	INDICATED LEVEL (NOTE 44)
NOZZLE N1A, B, C, D	440.0				
NOZZLE N12A, B	556.25				
FEEDWATER SYSTEM & REACTOR PROTECTION SYSTEM FULL SCALE	577.0	1. TRIP HPDI TURBINE 1. TRIP RCIC TURBINE 1. TRIP REACTOR FEED PUMPS 2. CLOSE MAIN TURBINE STOP VALVES	LS N6930 LS N693D LS N693A LS N693C	8 C32-FY-K624A-C	SAFEGUARDS (L)-R664A, B L/PR-R633A +50 C23-L/PR-R6 +50
		1. HIGH LEVEL ALARM	C32-L/PR-R608	7	
		1. NORMAL LEVEL	FEEDWATER LEVEL CONT. SYS. C32	5.6	+37.0 +37.0
		1. LOW LEVEL ALARM	C32-L/PR-R608	4	
		1. SCRAM 2. CLOSE PCIS VALVES (SEE NOTE 47) 3. CLOSE RHM SHUTDOWN COOLING ISOLATION VALVES 1. AUTO DEPRESSURIZATION SYS(ADS) PERMISSIVE	LS-NB80A-D LS-N690A, B	3	0 0
FEEDWATER SYSTEM & REACTOR PROTECTION SYSTEM INSTRUMENT ZERO BOTTOM OF DRYER SKIRT	517.0	1. INITIATE HPDI 2. INITIATE RCC 3. INITIATE ATWS-ARI	LS N692A-D	2	
NOZZLE N11A, B	509.0	1. CLOSE RWCD ISOL. VALVES 1. START SBT SYSTEM INP-1 & 2 3. CLOSE REACTOR BLDG. VENTILATION SYSTEM DAMPERS 4. CLOSE REF. FLR. VENTILATION SYSTEM DAMPERS INP-1 & 2 1. TRIP RECIRCULATION PUMPS	LS NB82A-D LS N694A-D	1 ATWS/RPT	
		1. INITIATE RWS SYSTEM 2. INITIATE CODE SPRAY SYSTEM 3. CONTRIBUTE TO ADS 4. START STANDBY DIESEL	LS N691A-D	1	
		1. CLOSE MSIVS 2. CLOSE MS DRAIN ISOL. VALVES 3. CLOSE REACTOR WATER SAMPLE ISOL. VALVES	LS N681A-D		-150.0
REACTOR PROTECTION SYSTEM FULL SCALE	367.0				
NOZZLE N16A, B	358.0				
TOP OF ACTIVE FUEL	456.56				
LOWER JET PUMP TAP	143.0	1. CONTAINMENT SPRAY PERMISSIVE	LS N685A, B	0	-203.5
NOZZLE N8A, B	132.0				

THIS DWG. DEVELOPED FROM G.E. DWG. NO.
729E619BA REV.5, SHT. 1 & 2.

FOR REFERENCES SEE DWG. H-16062 (SHT.
WORK THIS DRAWING WITH H-16062 (SHT. 1)
AND H-16063 (SHT. 2).

CRITICAL DOCUMENT

MPL NO. B21-1010

ACAD2000 H16145

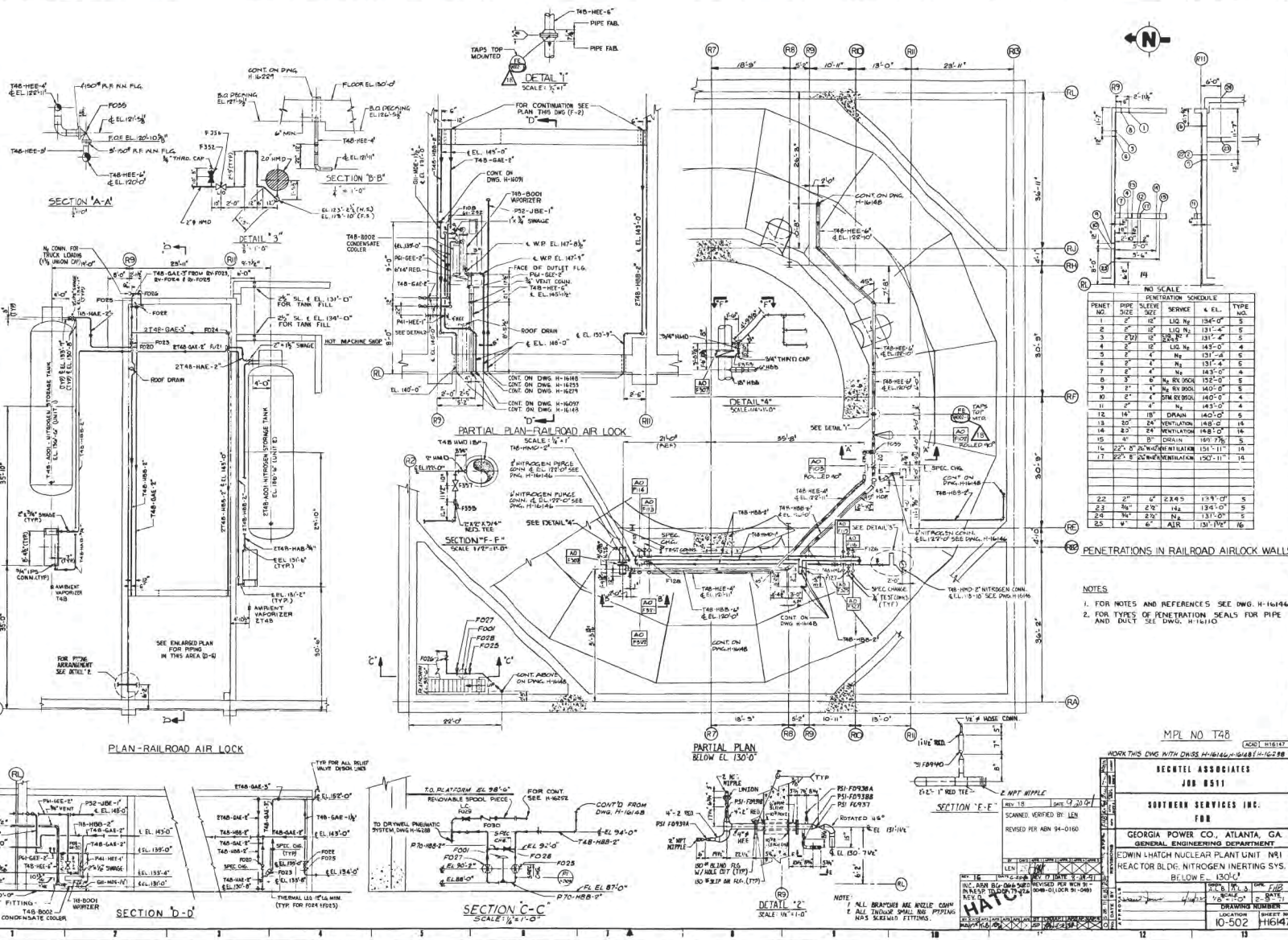
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COMPANY

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<p>EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1 NUCLEAR BOILER SYSTEM P&ID SHEET 3</p>

Version: 18.0	Date: 11-17-14
REVISED PER ABN-H(3893, VER.1.0	

			NAME	DEGREE	LOCATION	UNIVERSITY NUMBER	VERSION
			CAD		10-502	H-16'45	18.0
			DATE	SOLE			
BY	CHK'D	APPR.	4-5-85	None			
JCP	JJF	JTL					



MPL NO T48

WORK THIS DWG WITH DWGS H-1610-16, H-1610-17, H-1610-18

RECENT ASSOCIATES
JOB #511

SOUTHERN SERVICES INC.
FOR

GEORGIA POWER CO. ATLANTA, GA
GENERAL ENGINEERING DEPARTMENT

EDWIN LATCH NUCLEAR PLANT UNIT #1
REACTOR BLDG. NITROGEN INERTING SYS.
BELOW E. 130'-0"

DRAWING NUMBER
10-502
116147

REVISIONS

NO. 16
DATE 10/1/68
BY H-1610-16
REVISION 1
DESCRIPTION
H-1610-16
H-1610-17
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H-1610-100

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NOTES:

1. ALL EQUIPMENT AND INSTRUMENT NUMBERS ARE TO BE PRECEDED BY MPL D11, UNLESS OTHERWISE NOTED.
2. DELETED
3. * : FURNISHED WITH ASSOCIATED EQUIPMENT
4. • : DENOTES ELECTRICAL HEAT TRACING
5. THIS LINE TO BE ELECTRICALLY HEAT TRACED AND INSULATED WITH 1" FIBERGLASS INSULATION TO MAINTAIN A TEMP. OF 110° F.

REFERENCES:

TITLE	MPL NO	DWG NO
1. SCHEMATIC DIAGRAM POST ACCIDENT REACTOR COOLANT AND CONTAINMENT ATMOSPHERE SAMPLING SYSTEM	2P33-1010	H-26384
2. FISSION PRODUCTS MONITORING SYSTEM P&ID, SHEET NO. 2	D11-1010	H-16274
3. DELETED		
4. SAMPLE LINE ROUTING REACTOR & RADWASTE BLDG. BELOW EL. 130'-0"		H-16553
5. SAMPLE LINE ROUTING REACTOR & RADWASTE BLDGS. EL. 130'-0"		H-16554
6. SAMPLE LINE ROUTING REACTOR & RADWASTE BLDGS. EL. 158'-0"		H-16556
7. DIGITAL INPUT SIGNALS TO THE ERF COMPUTER SYSTEM I.E.D. SHEET 2 OF 15	X75-1010	H-16404
8. PROCESS RADIATION MONITORING SYSTEM P&ID, SHEET 4.		H-16566
9. PRIMARY CONTAINMENT ATMOSPHERE H-2		H-16276

CRITICAL DOCUMENT

MPL NO. D11-1020 Acad2K H16173



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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
FISSION PRODUCTS MONITORING
SYSTEM P&ID
SHEET No. 1

DATE	REVISION	DATE	REVISION	DATE
5-28-82	None	10-502	H-16173	14

Revision: 14 Date: 8-26-03

REVISED PER
ABN 99-0049-009.

BY: S. RITZ
CHK: CMW/DEW

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 5-28-82 BY: [redacted]



1-STANDBY GAS TREATMENT
SYSTEM PROCESS FLOW
AND P. & I.D. SHEET NO. 1

M.P.L. NO.	S.S.I. NO.
T46-1010	H-16020

MPL NO. T46-1010

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Version: 25.0	Date: 9-12-06
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REVISED PER
ABN-H00192, VER. 1.0

[illegible][illegible]

JLO	ELC	DEW	SEE MICROFILM FOR PRE-REV. SIG
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
STANDBY GAS TREATMENT SYSTEM
P. & I.D. - SH. NO. 2

DESIGNED	LOCATION	DRAWING NUMBER	VERSION
C.I.	10-502	H-16174	25
DATE	SCALE		

1/20/72	None	12	13	DRAWING CATEGORY CRITICAL
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DRAWING CATEGORY
CRITICAL