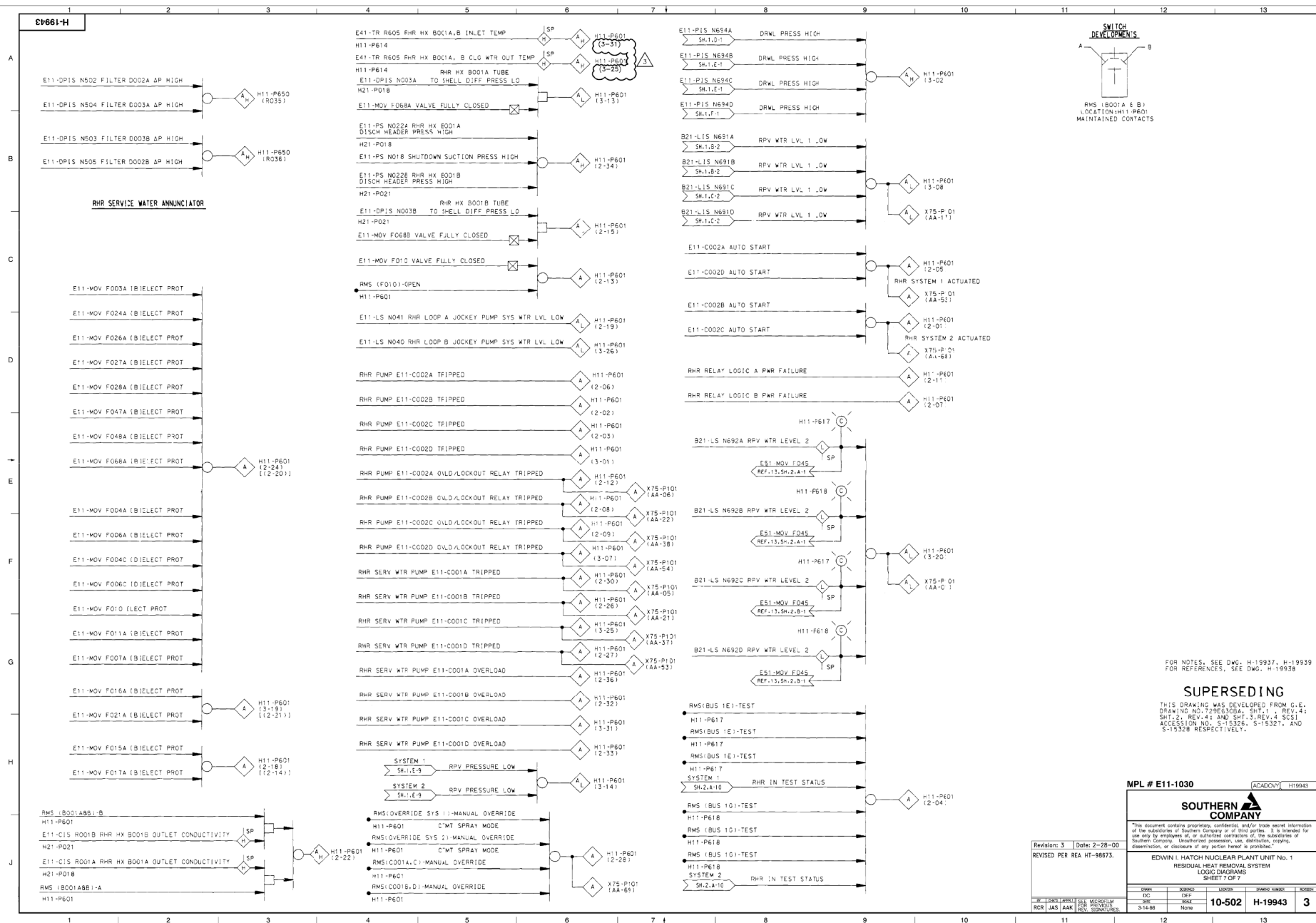
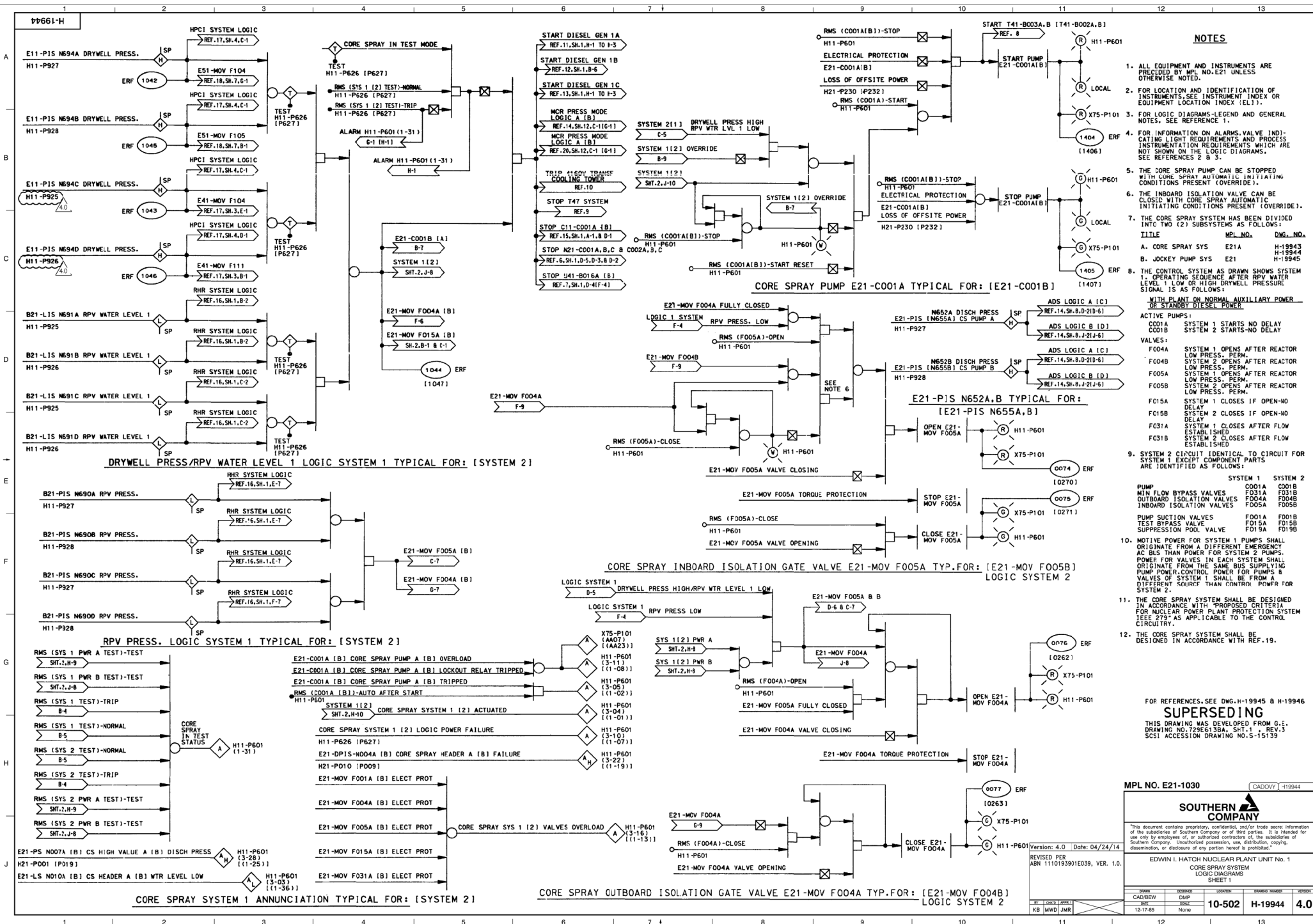
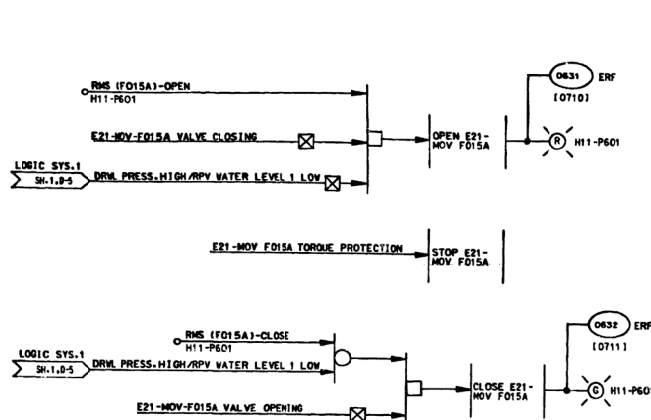


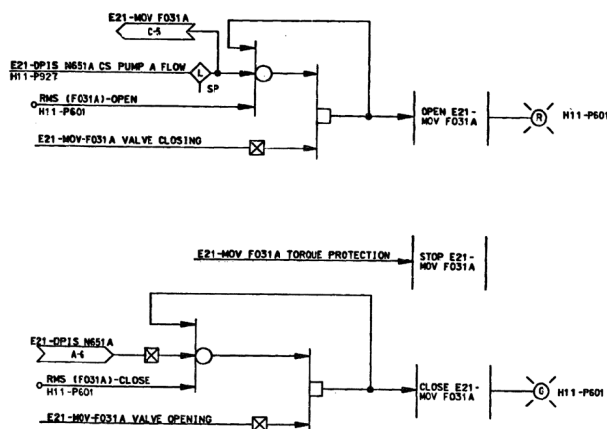
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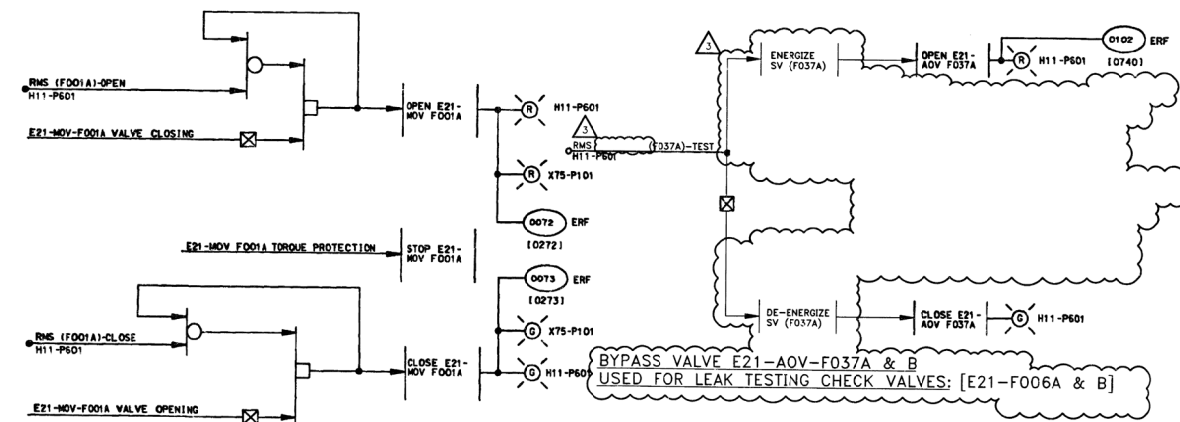




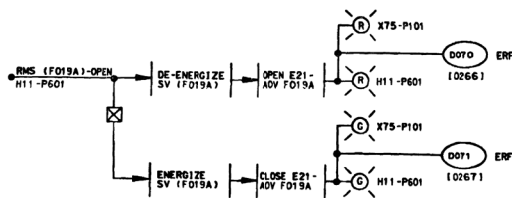
CORE SPRAY TEST BYPASS GLOBE VALVE E21-MOV F015A TYP. FOR: [E21-MOV F015B]
LOGIC SYSTEM 2



CORE SPRAY PUMP MINIMUM FLOW BYPASS GATE VALVE E21-MOV F031A TYP. FOR:
E21-MOV F031B
H11-P928

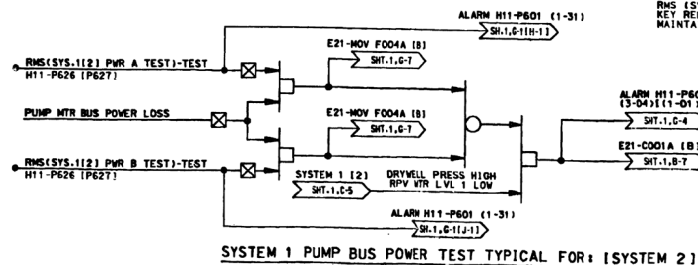


CORE SPRAY SUCTION GATE VALVE E21-MOV F001A TYP. FOR: [E21-MOV F001B]

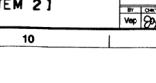
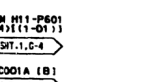
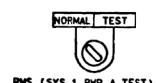
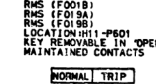
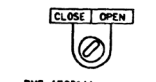
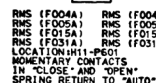
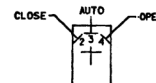
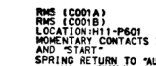
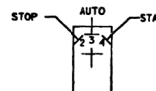
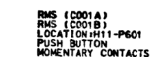
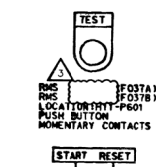


CORE SPRAY SUPPRESSION POOL VALVE E21-AOV F019A TYPICAL FOR: [E21-AOV F019B]

MANUAL INJECTION VALVE E21-F007A TYPICAL FOR: [E21-F007B]



SWITCH DEVELOPMENTS



REFERENCES

CONT. ON H-19946

TITLE MPL NO. DWG. NO.

- LOGIC DIAGRAMS-LEGEND AND GENERAL NOTES A21-1030 H-19900
- CORE SPRAY SYSTEM P810 E21-1010 H-16331
- JOCKEY PUMP SYSTEM P810 AND PROCESS FLOW DIAGRAM E21-1050 H-16328
- NUCLEAR BOILER SYSTEM P810 SHEET 1 B21-1010 H-16062
- NUCLEAR BOILER SYSTEM P810 SHEET 2 B21-1010 H-16063
- NUCLEAR BOILER SYSTEM P810 SHEET 3 B21-1010 H-16145
- RHR SYSTEM P810 SHEET 1 E11-1010 H-16329
- RHR SYSTEM P810 SHEET 2 E11-1010 H-16330
- CONDENSATE & F.W. SYS P810 SHEETS 1-4 N21-1010 H-11603
H-11605
H-11605
- TURBINE BUILDING CHILLED WATER SYSTEM P810 SHEET 1 P63-1010 H-16326
- TURBINE BUILDING CHILLED WATER SYSTEM P810 SHEET 2 P63-1010 H-16327
- SAFEGUARD EQUIPMENT COOLING SYSTEM P810 T41-1030 H-16023
- PRIMARY CONTAINMENT COOLING SYSTEM P810 & PFD T47-1010 H-16007
- ELEMENTARY DIAGRAM-600V STATION SERVICE SUPPLY AC'S R25 H-13385
- ELEMENTARY DIAGRAM-DIESEL GENERATOR 1A R43 H-13412
- ELEMENTARY DIAGRAM-DIESEL GENERATOR 1B R43 H-13413
- ELEMENTARY DIAGRAM-DIESEL GENERATOR 1C R43 H-13414
- NUCLEAR BOILER SYSTEM LOGIC DIAGRAMS SHEETS 1-12 B21-1030 H-19901
THRU H-19912
- CONTROL ROD DRIVE HYDRAULIC SYSTEM LOGIC DIAGRAMS SHEETS 1-9 C11-1030 H-19918
THRU H-19925
H-19927
H-19937
THRU H-19943
- HIGH PRESSURE COOLANT INJECTION SYSTEM LOGIC DIAGRAMS SHEETS 1-8 E41-1030 H-19947
THRU H-19954
- REACTOR CORE ISOLATION COOLING SYSTEM LOGIC DIAGRAMS SHEETS 1-8 E51-1030 H-19955
THRU H-19962
- GE 2242989 ELECTRICAL EQUIPMENT SEPARATION FOR SAFEGUARD SYSTEMS A70 5-17:08
- NUCLEAR BOILER SYSTEM LOGIC DIAGRAMS SHEETS 1-12 2821-1030 H-24701
THRU H-24712

FOR NOTES, SEE DWG. H-19944.

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM D.E. DRAWING NO. T295E138A, SH.1 - REV.3
SCS1 ACCESSION DRAWING NO. S-15139

MPL NO. E21-1030

(ACAD) H19946

Southern Company Services, Inc. for
Georgia Power Company, Atlanta, GA
General Engineering Department

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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
CORE SPRAY SYSTEM
LOGIC DIAGRAMS
SHEET 2 OF 3

DATE: 12-18-78
DWP: None
10-502 H-19945 3

94661-H

SWITCH
DEVELOPMENTS

OFF ON



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RMS (C002B)
LOCATION: H11-P641
MAINTAINED CONTACTS

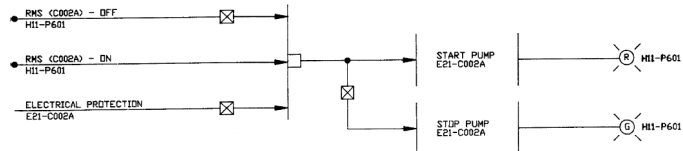
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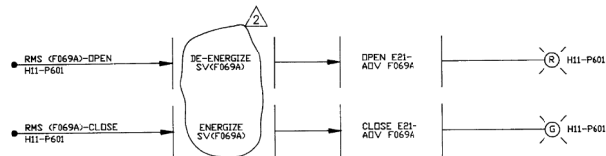
RMS (F069A)
RMS (F069B)
RMS (F070A)
RMS (F070B)
LOCATION: H11-P601
MAINTAINED CONTACTS

REFERENCES
CONT. FROM H-19945

21. EOP MULTIPLEXER
SYSTEM I.E.D. X75-1001 H-16401
22. ANNUNCIATOR
SIGNALS TO
TIC I.E.D. X75-1001 H-16402
23. DIGITAL INPUT
SIGNALS TO THE
EOP COMPUTER
SYSTEM I.E.D. X75-1001
SHEET 4 H-16405
SHEET 5 H-16407
SHEET 13 H-16415



JOCKEY PUMP E21-C002A TYPICAL FOR: E21-C002B



JOCKEY PUMP SUCTION LINE ISOLATION VALVE E21-ADV F069A TYPICAL FOR: E21-ADV F069B
E21-ADV F070A
E21-ADV F070B

FOR NOTES, SEE DWG. H-19944.

MPL. NO. E21-1030

BECHTEL

JOB 6511 GAITHERSBURG, MARYLAND

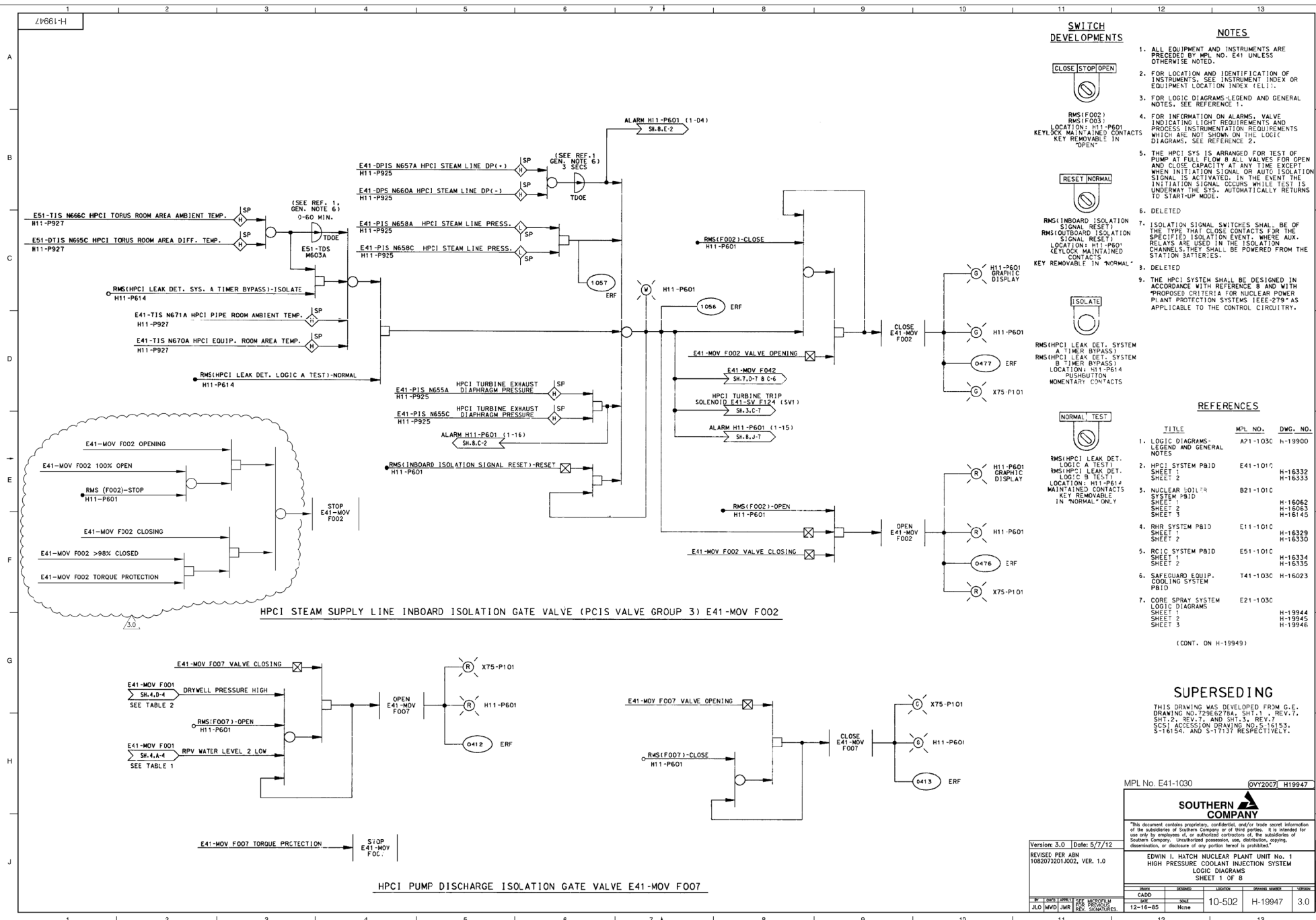
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FOR

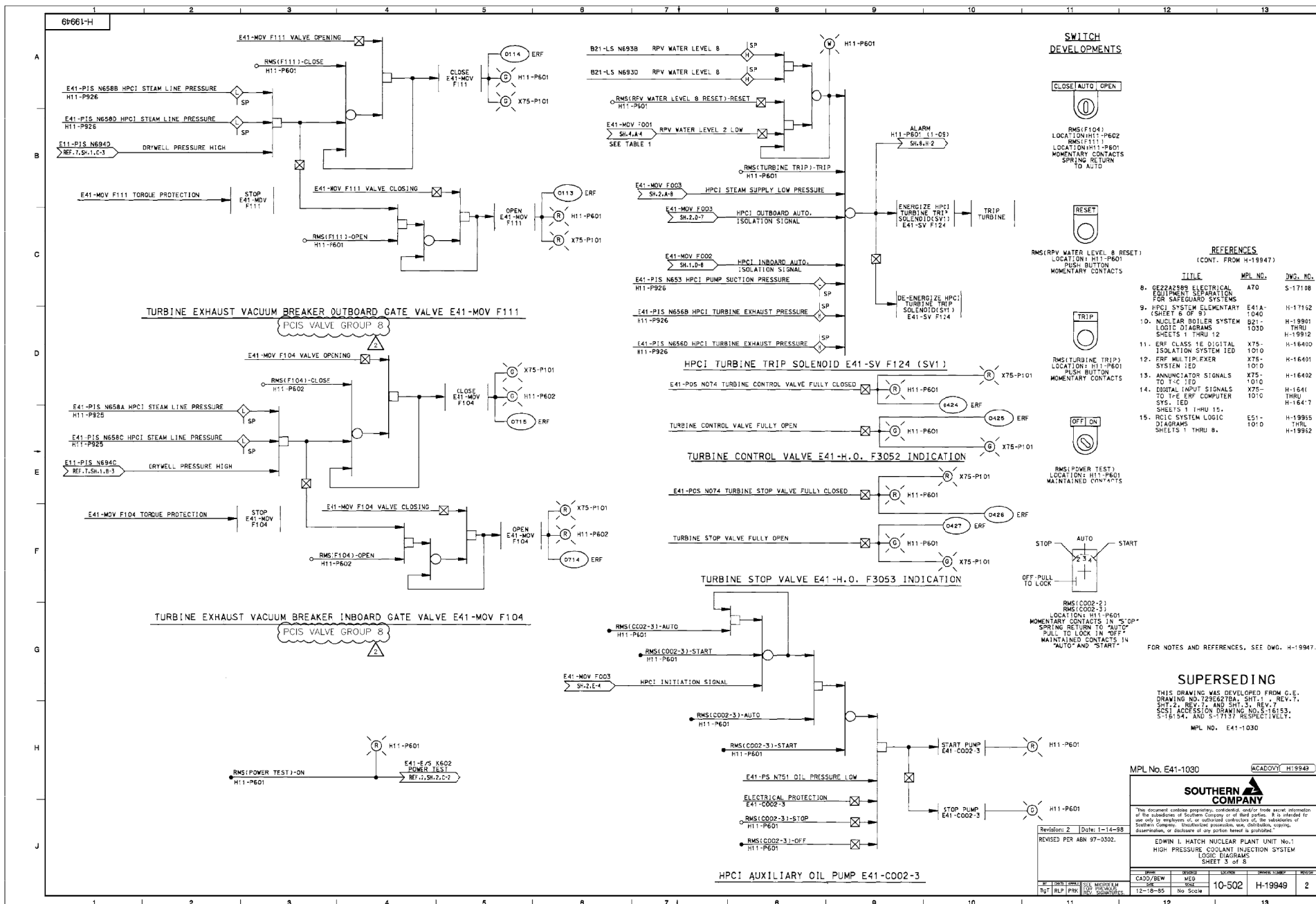
GEORGIA POWER CO., ATLANTA, GA.
GENERAL ENGINEERING DEPARTMENT
EDWIN LATCH NUCLEAR PLANT UNIT NO.1
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LOGIC DIAGRAMS
SHEET 3 OF 3

REV. 2 DATE 8-31-70
REVISED IN RESPONSE
TO WCN 89-275-03.

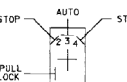
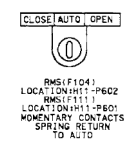
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GAO 9-12-86
SCALE
DATE
10-502 H-19946





SWITCH DEVELOPMENTS



REFERENCES

TITLE	MPL NO.	DWG. NO.
8. GE22A2988 ELECTRICAL EQUIPMENT SEPARATION FOR SAFEGUARD SYSTEMS	ATO	S-17198
9. HPCI SYSTEM ELEMENTARY LOGIC DIAGRAMS	E41A-SHEETS 8 OF 8	H-17162
10. NUCLEAR BOILER SYSTEM LOGIC DIAGRAMS	B21-SHEETS 1 THRU 12	H-19901
11. ERF CLASS 1E DIGITAL ISOLATION SYSTEM IED	X75-1010	H-16400
12. ERF MULTIPLEXER SYSTEM IED	X75-1010	H-16401
13. ANNUNCIATOR SIGNALS TO T-C IED	X75-1010	H-16402
14. DIGITAL INPUT SIGNALS TO THE ERF COMPUTER	X75-1010	H-16403
15. ERF SYSTEM LOGIC DIAGRAMS	E51-1010	H-19955

FOR NOTES AND REFERENCES, SEE DWG. H-19947

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 1258272A, SHT. 1, REV. 7, SHT. 2, REV. 7, AND SHT. 3, REV. 7. SCOT ACCESSION DRAWING NO. S-16153, S-16154, AND S-17137 RESPECTIVELY.

MPL NO. E41-1030

MPL No. E41-1030		ACAD/COV. H19948
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1 HIGH PRESSURE COOLANT INJECTION SYSTEM LOGIC DIAGRAMS SHEET 3 of 8		
REVISIONS 2 REVISED PER AEN 97-0302.	DATE 1-14-88	DRAWN CAD/BEN CHECKED MCK DATE 12-18-85 NO SCALE
10-502 H-19948 2		

0566 L-H

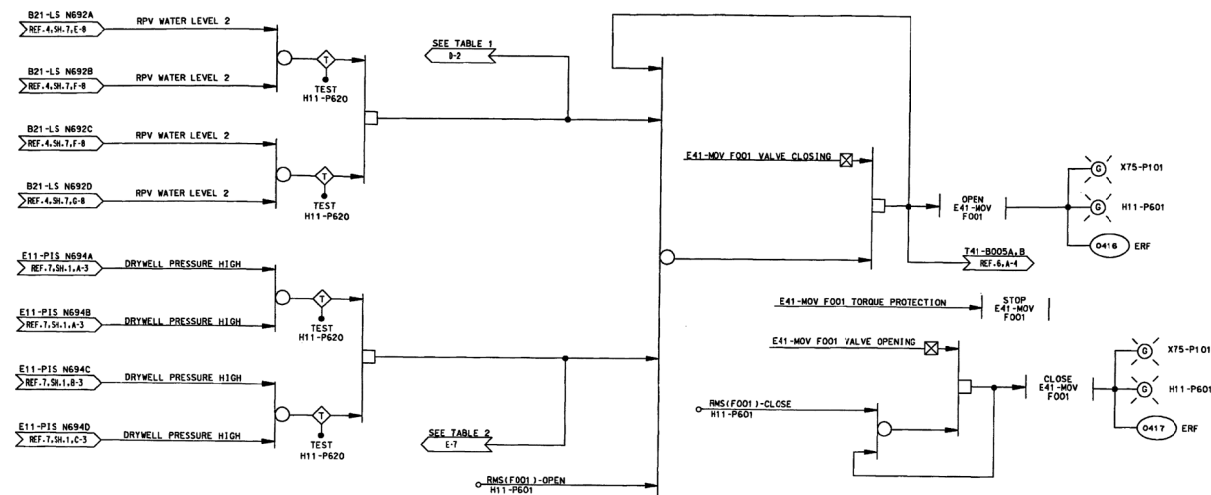


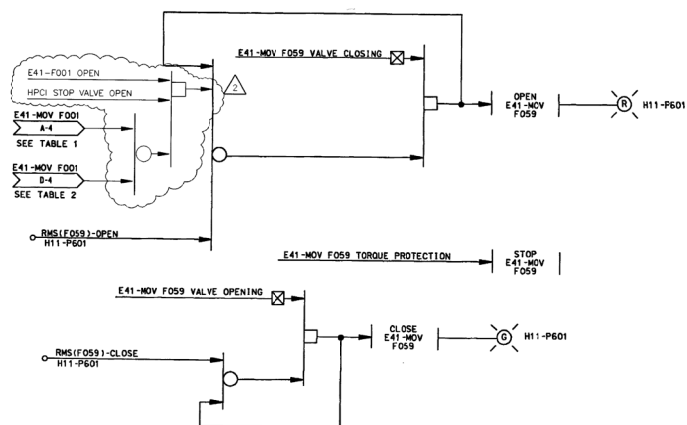
TABLE 1

TAG NUMBER	FUNCTION	SHT. NO.	COORD.
HPCI TURBINE TRIP SOLENOID SVI	RESET PERM	3	B-6
E41-MOV F059	OPEN VALVE	4	G-1
E41-MOV F004	OPEN PERM	7	B-1
E41-MOV F008	CLOSE VALVE	5	C-7
E41-MOV F006	OPEN PERM	5	E-6
E41-MOV F007	OPEN VALVE	1	H-2
E41-MOV F003	CLOSE PERM	2	D-4
E41-MOV F011	CLOSE VALVE	2	H-2

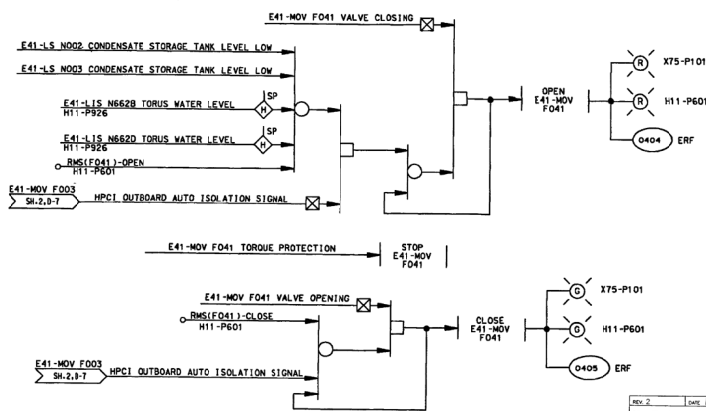
HPCI TURBINE STEAM SUPPLY GATE VALVE E41-MOV F001

TABLE 2

TAG NUMBER	FUNCTION	SHT. NO.	COORD.
E41-MOV F006	OPEN PERM	5	E-6
E41-MOV F007	OPEN VALVE	1	G-2
E41-MOV F059	OPEN VALVE	4	G-1
E41-MOV F003	CLOSE PERM	2	D-4
E41-MOV F008	CLOSE VALVE	5	C-7
E41-MOV F011	CLOSE VALVE	2	H-2
E41-MOV F004	OPEN PERM	7	B-1

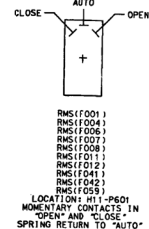


HPCI TURBINE LUBE OIL COOLING WATER SUPPLY GLOBE VALVE E41-MOV F059



PUMP SUCTION FROM TORUS ISOLATION GATE VALVE E41-MOV F041

SWITCH DEVELOPMENTS



FOR NOTES AND REFERENCES, SEE DWG. H-19947.

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM D.E. DRAWING NO. 7286278A, SHT. 1, REV. 2, SHT. 2, REV. 1, AND SHT. 3, REV. 1. SC31 ACCESSION DRAWING NO. 5-16153, 5-16154, AND 5-17137 RESPECTIVELY.

MPL NO. E41-1030 (REV. 1) (1995)

BECHTEL

JOB 6511 GAITHERSBURG, MARYLAND

SOUTHERN SERVICES INC. FOR

GEORGIA POWER CO., ATLANTA, GA.
CENTRAL ENGINEERING DEPARTMENT
EDWIN I. HATCH NUCLEAR PLANT UNIT NO. 1
HIGH PRESSURE COOLANT INJECTION SYSTEM
LOGIC DIAGRAMS
SHEET 4 OF 8

REV. 2

DRAWN: 3/12/96

CHECKED: 3/12/96

REVISION: 3/12/96

SCALE: 1:1

DATE: 3/12/96

BY: 10-502

H-19950



SUPERSEDING

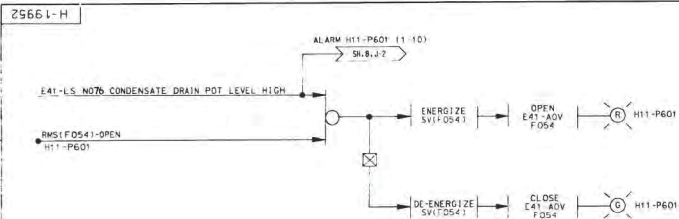
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MPL NO. E41-1030

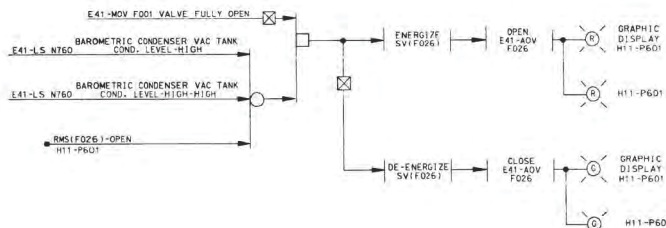
BECHTEL

SOUTHERN SERVICES INC.
FOR
GEORGIA POWER CO., ATLANTA, GA.
GENERAL ENGINEERING DEPARTMENT
N 1 PLANT NUCLEAR PLANT UNIT NO.
PRESSURE COOLANT INJECTION SYSTEM
LOGIC DIAGRAMS
SHEET 5 OF 8

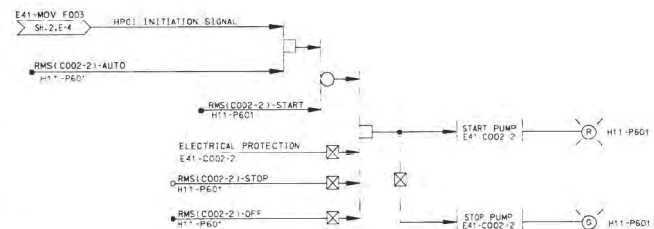
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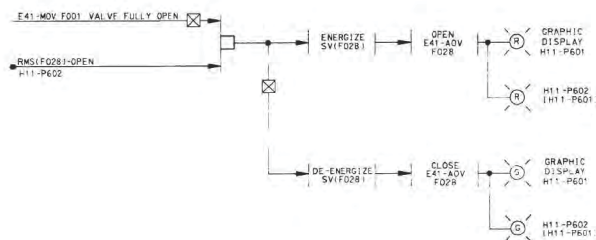
CONDENSATE DRAIN POT DRAIN TRAP BYPASS VALVE E41-AOV F054



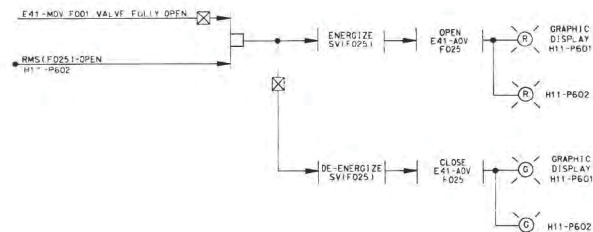
CONDENSATE PUMP DISCHARGE TO CRW ISOLATION VALVE E41-AOV F026



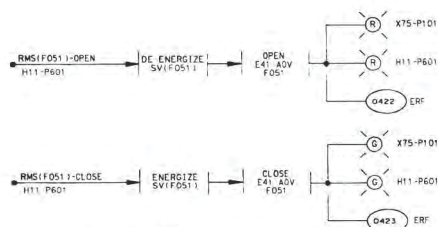
BAROMETRIC CONDENSER VACUUM PUMP E41-CO02-2



STEAM LINE DRAIN TO MAIN CONDENSER ISOLATION VALVE E41-AOV F028 TYPICAL FOR: [E41-AOV F029]



CONDENSATE PUMP DISCHARGE TO CRW ISOLATION VALVE E41-AOV F025



TORUS ISOLATION VALVE E41-AOV F051

FOR NOTES AND REFERENCES, SEE DWC. H-19947.

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 2296275A, SH. 1, REV. 7, SH. 2, REV. 7, AND SH. 3, REV. 7. SCRI. ACCESSION DRAWING NO. S-16153, S-16154, AND S-17137, RESPECTIVELY.

MPL. NO. E41-1030

BECHTEL

JOB 6511 GAITHERSBURG, MARYLAND

SOUTHERN SERVICES INC.
FOR

GEORGIA POWER CO., ATLANTA, GA.
GENERAL ENGINEERING DEPARTMENT

EDWIN I. HATCH NUCLEAR PLANT UNIT NO. 1

HIGH PRESSURE COOLANT INJECTION SYSTEM

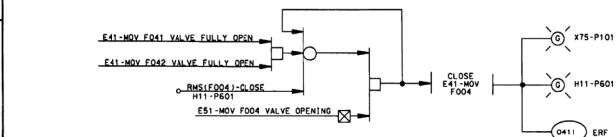
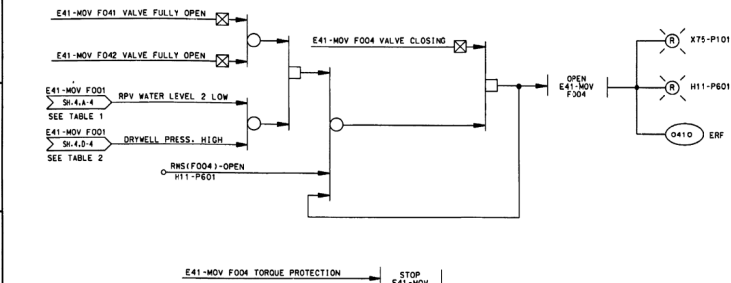
LOGIC DIAGRAMS

SHEET 6 OF 8

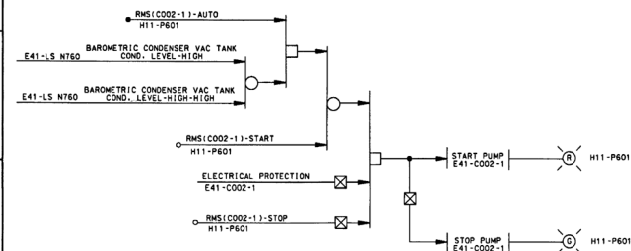
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7	10/10/82	W. W. W.			
8	10/10/82	W. W. W.			
9	10/10/82	W. W. W.			
10	10/10/82	W. W. W.			
11	10/10/82	W. W. W.			
12	10/10/82	W. W. W.			
13	10/10/82	W. W. W.			

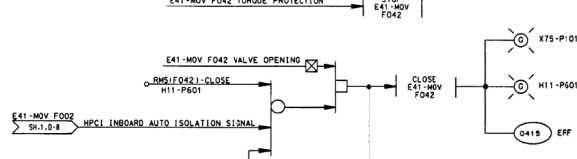
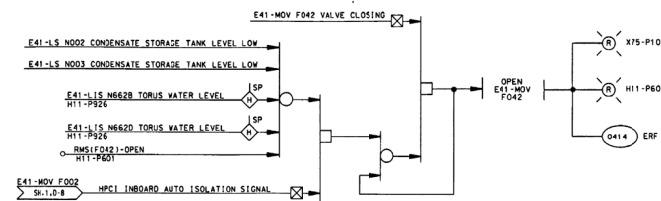
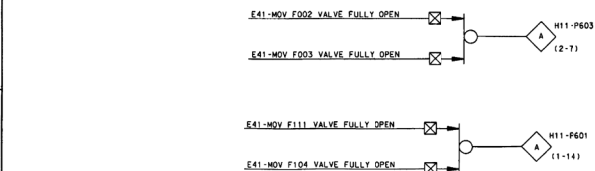
55661-H



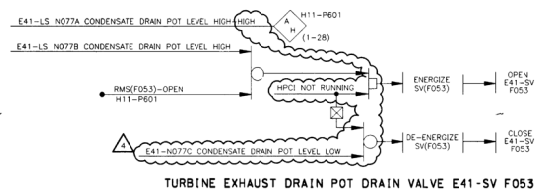
PUMP SUCTION FROM CONDENSATE STORAGE TANK ISOLATION GATE VALVE E41-MOV F004



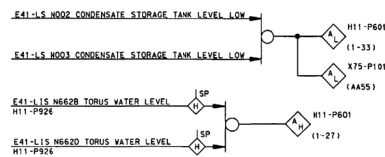
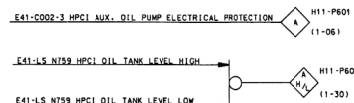
BAROMETRIC CONDENSER VACUUM TANK CONDENSATE PUMP E41-C002-1



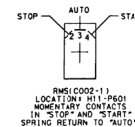
PUMP SUCTION FROM TORUS ISOLATION (PCIS VALVE GROUP 3) GATE VALVE E41-MOV F042



TURBINE EXHAUST DRAIN POT DRAIN VALVE E41-SV F053



SWITCH DEVELOPMENTS



FOR NOTES AND REFERENCES, SEE DWG. H-19917

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM D.E. DRAWING NO. 2966278A, SH-1, REV. 7, SH-1, REV. 1, AND SH-1, REV. 1, SCRI ACCESSION DRAWING NO. S-16193, S-16194, AND S-17137 RESPECTIVELY.

NPL NO. E41-1030

BECHTEL

JOB 6511 GAITHERSBURG, MARYLAND

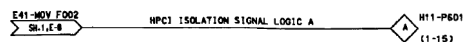
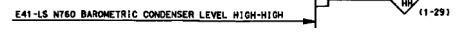
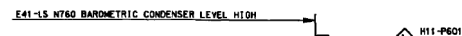
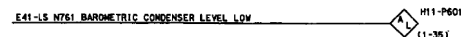
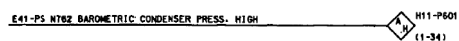
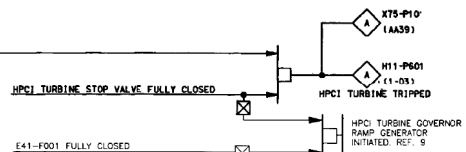
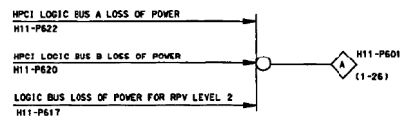
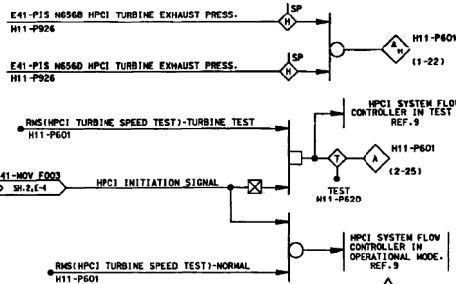
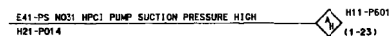
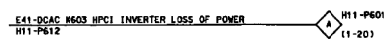
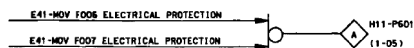
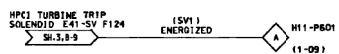
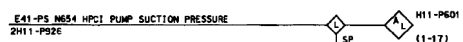
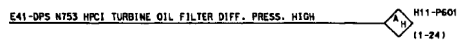
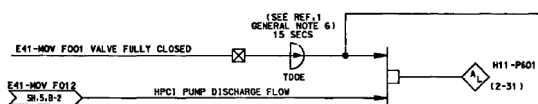
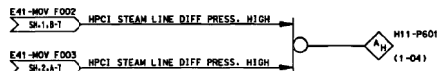
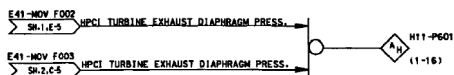
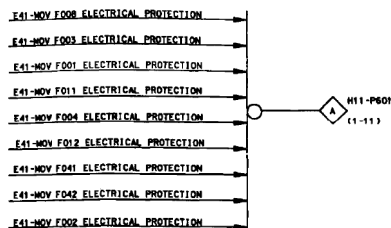
SOUTHERN SERVICES INC. FOR

GEORGIA POWER CO., ATLANTA, GA. GENERAL ENGINEERING DEPARTMENT

EDWIN I. HATCH NUCLEAR PLANT UNIT NO. 1 HIGH PRESSURE COOLANT INJECTION SYSTEM LOGIC DIAGRAMS SHEET 7 OF 8

NO.	DATE	BY	CHKD.	APP'D.	REVISION
1	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	1
2	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	2
3	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	3
4	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	4
5	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	5
6	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	6
7	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	7
8	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	8
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11	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	11
12	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	12
13	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	13
14	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	14
15	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	15
16	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	16
17	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	17
18	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	18
19	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	19
20	10-1-78	W. J. HARRIS	W. J. HARRIS	W. J. HARRIS	20

95061-H



SWITCH DEVELOPMENTS



RMS(HPCI TURBINE SPEED TEST)
LOCATION: H11-P601
MAINTAINED CONTACTS

FOR NOTES AND REFERENCES, SEE UMW. H-19947.

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 72966278A; SHT. 1, REV. 7, SHT. 2, REV. 7, AND SHT. 3, REV. 7. SCSS ACCESSION DRAWING NO. S-16153, S-16154, AND S-17137, RESPECTIVELY.

MPL # E41-1030

ACADOMY H19854

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Georgia Power Company, Atlanta, GA
General Engineering Department

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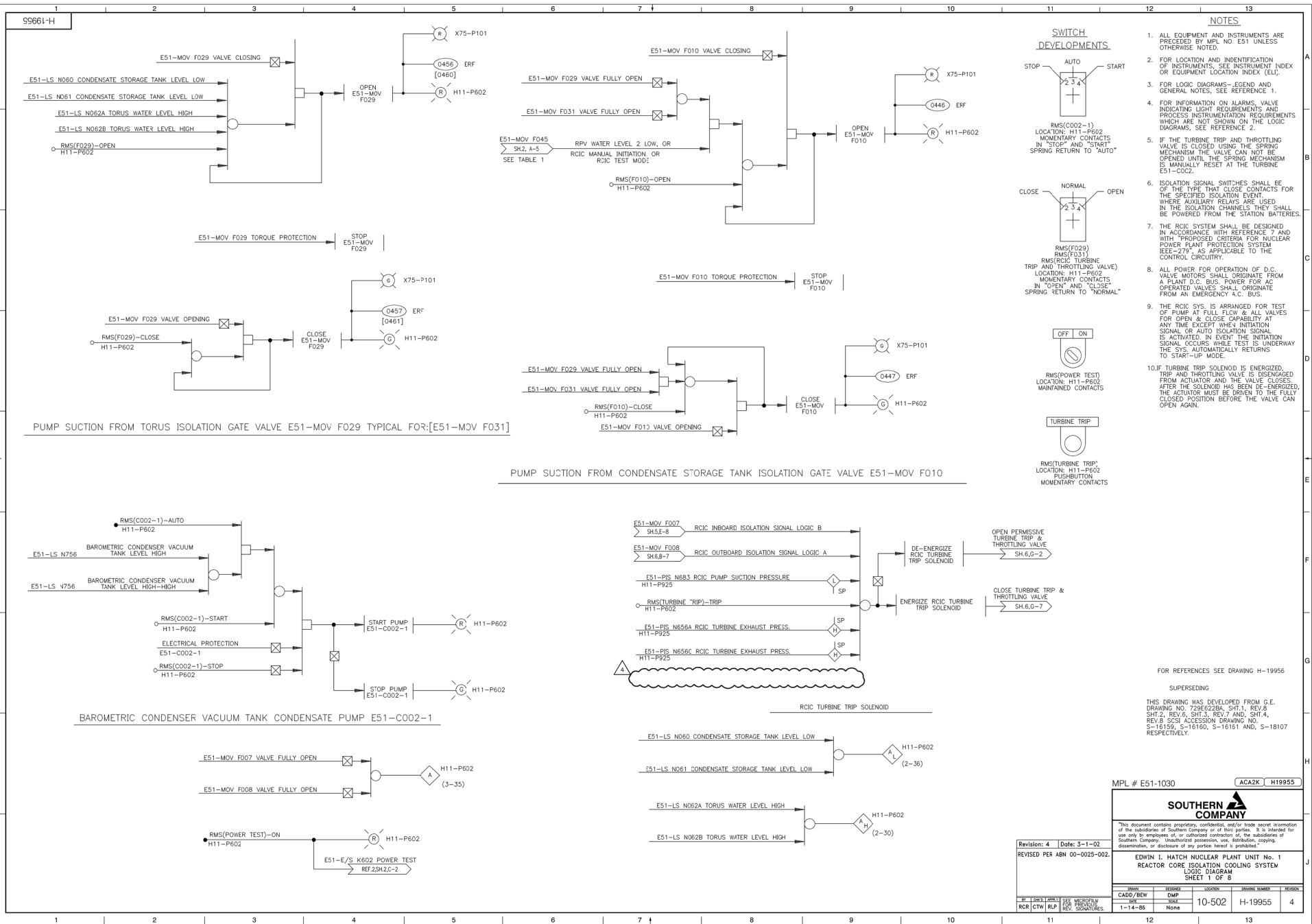
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HIGH PRESSURE COOLANT INJECTION SYSTEM
LOGIC DIAGRAMS SHEET 8 OF 8

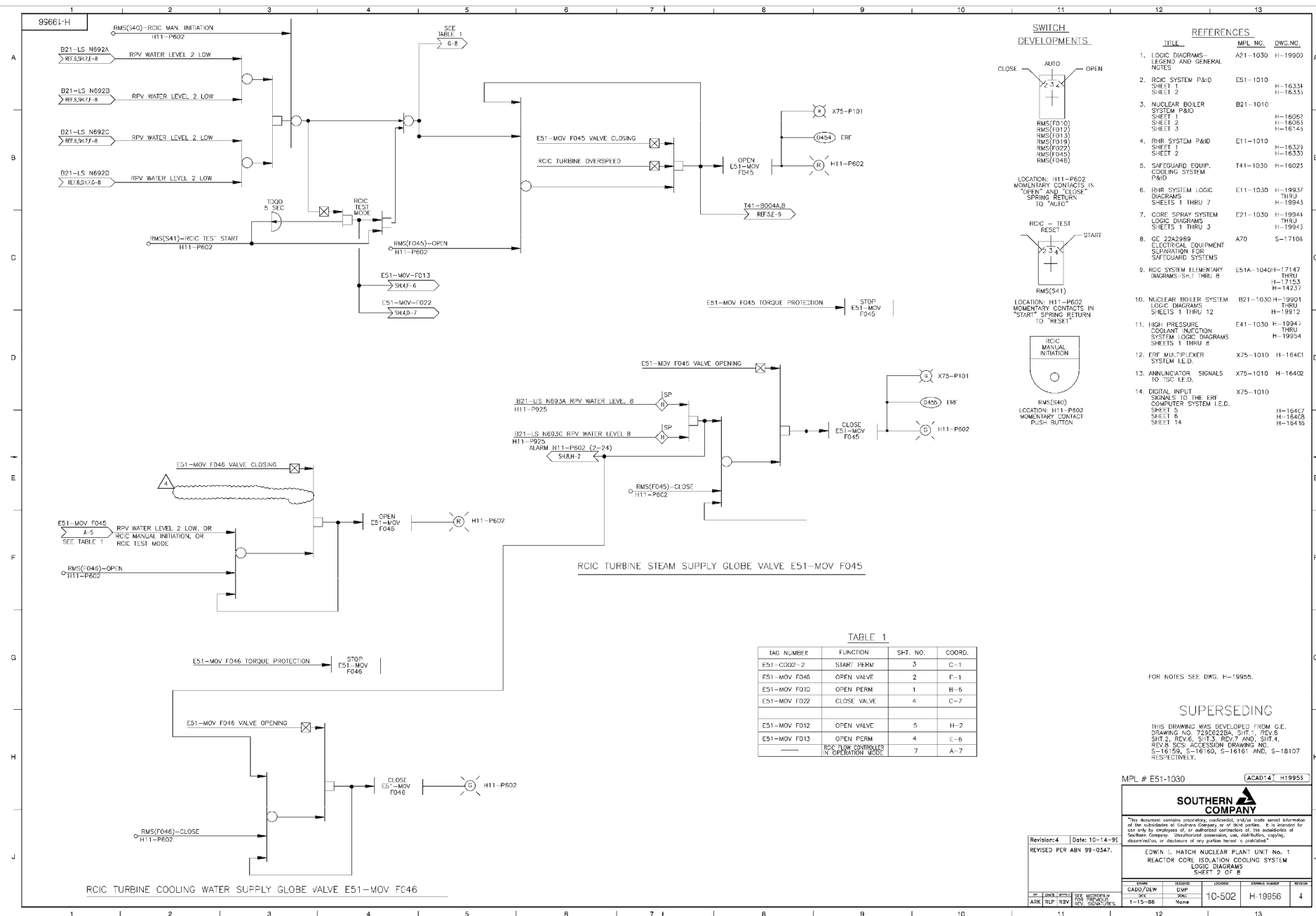
Revision: 3 Date: 6/11/04
REVISED PER ABN 92-0090-002

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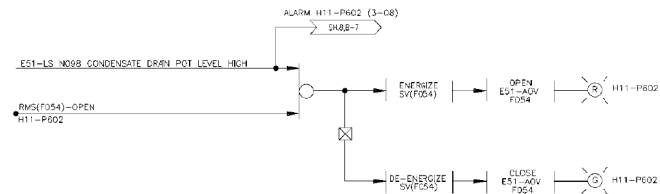
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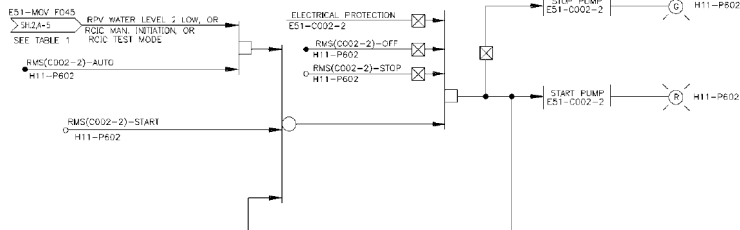




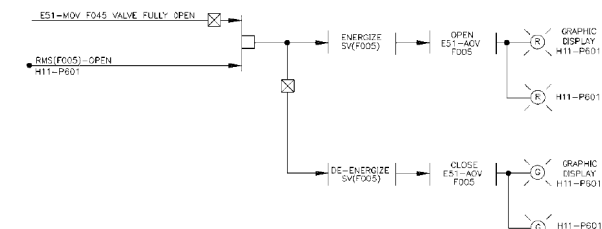
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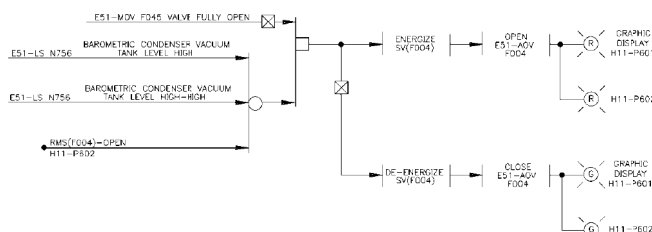
CONDENSATE DRAIN POT DRAIN VALVE E51-AOV F054



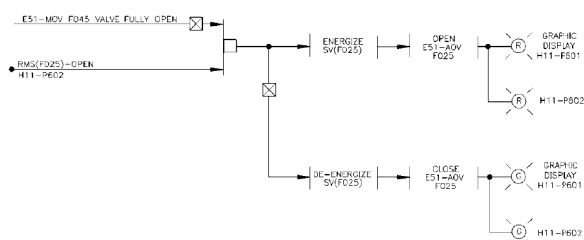
BAROMETRIC CONDENSER VACUUM PUMP E51-C002-2



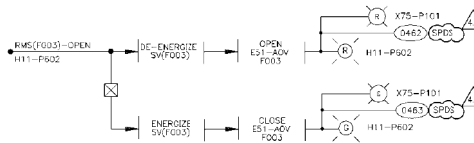
CONDENSATE PUMP DISCHARGE TO CRW ISOLATION OUTBOARD VALVE E51-AOV F005



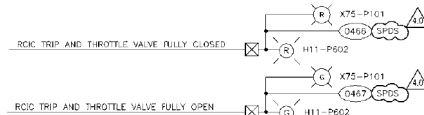
CONDENSATE PUMP DISCHARGE TO CRW ISOLATION INBOARD VALVE E51-AOV F004



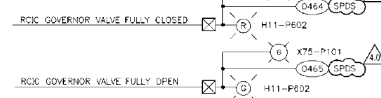
STEAM LINE DRAIN TO MAIN CONDENSER ISOLATION INBOARD VALVE E51-AOV F026
STEAM LINE DRAIN TO MAIN CONDENSER ISOLATION OUTBOARD VALVE E51-AOV F028
H11-P601



TORUS ISOLATION VALVE E51-AOV F003



RCIC TRIP AND THROTTLE VALVE E51-M.O.F524 INDICATION

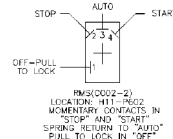


GOVERNOR VALVE E51-M.O.F523 INDICATION

SWITCH DEVELOPMENTS

CLOSE OPEN

RMS(F003)
RMS(F004)
RMS(F025)
RMS(F054)
LOCATION: H11-P602
RMS(F005)
RMS(F026)
LOCATION: H11-P601
MAINTAINED CONTACTS




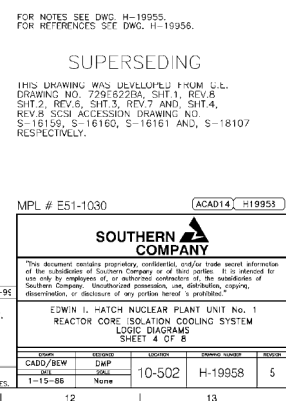
RMS(C002-2)
LOCATION: H11-P602
MOMENTARY CONTACTS IN
"STOP" AND "START"
SPRING RETURN TO "AUTO"
PULL TO LOCK IN "OFF"

FOR NOTES SEE DWG. H-19955.
FOR REFERENCES SEE DWG. H-19956.

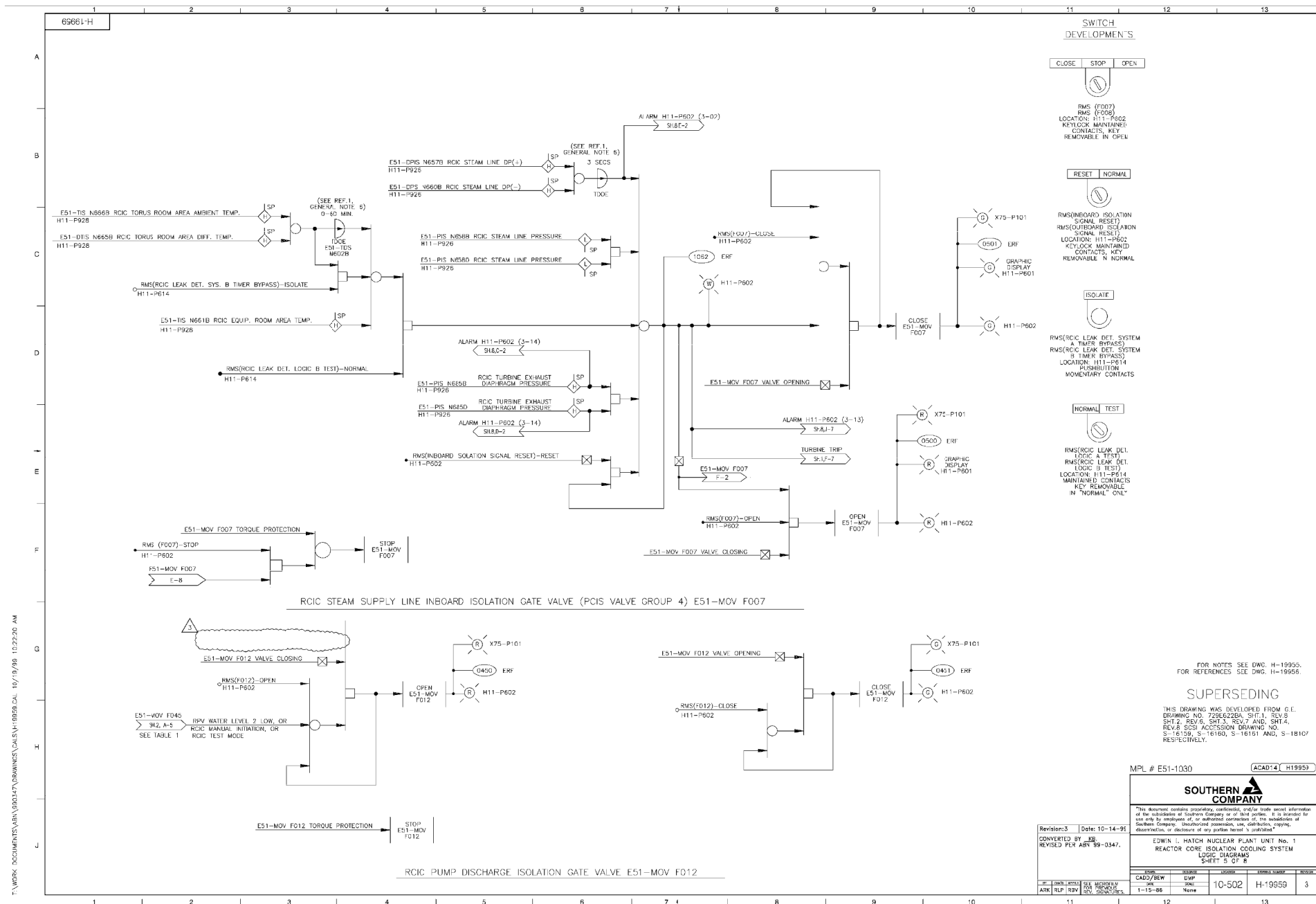
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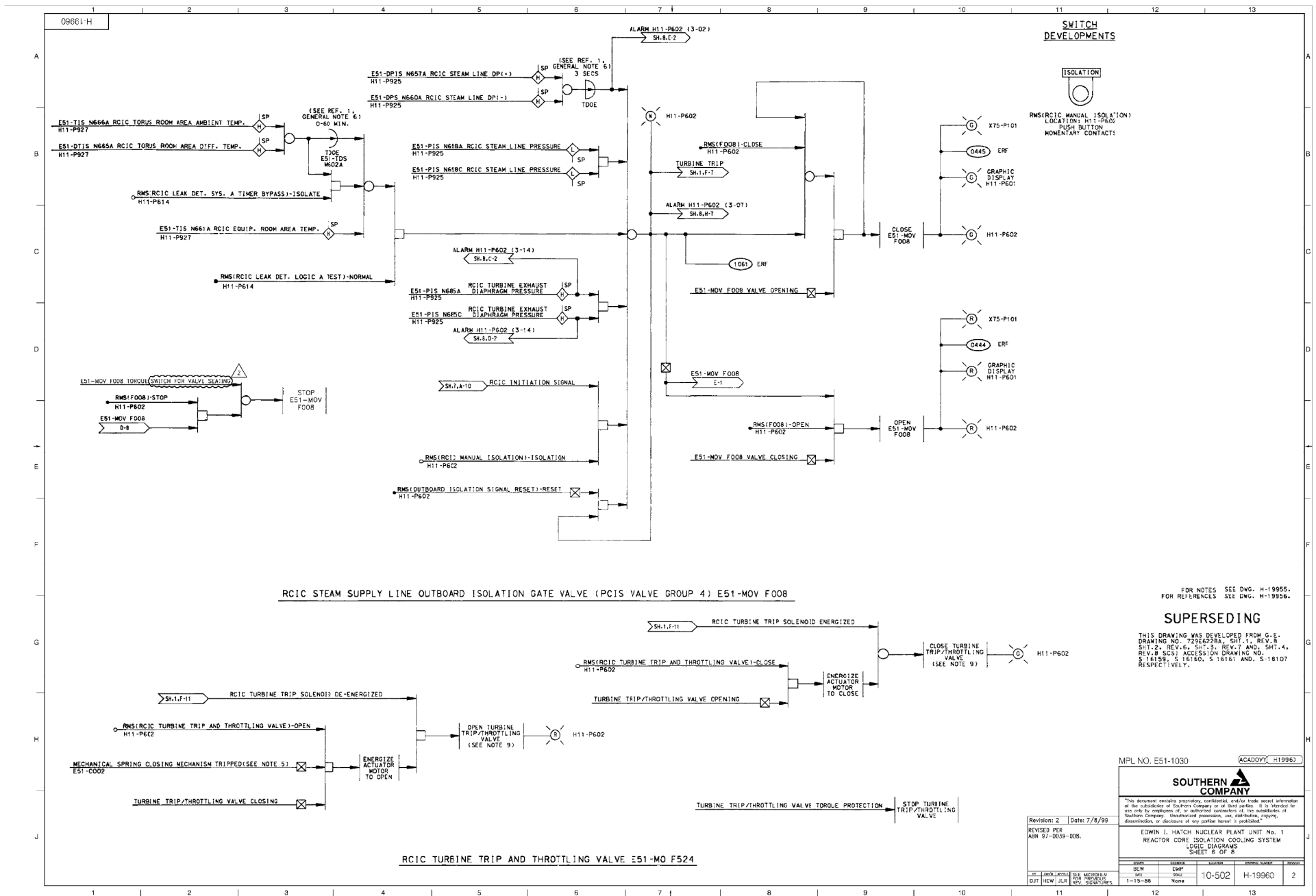
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SHT. 2, REV. 5, SHT. 3, REV. 7 AND, SHT. 4,
REV. 8. (SEE ADDITIONAL DRAWING NO.
S-16139, S-16160, S-16161 AND, S-16107
RESPECTIVELY.)

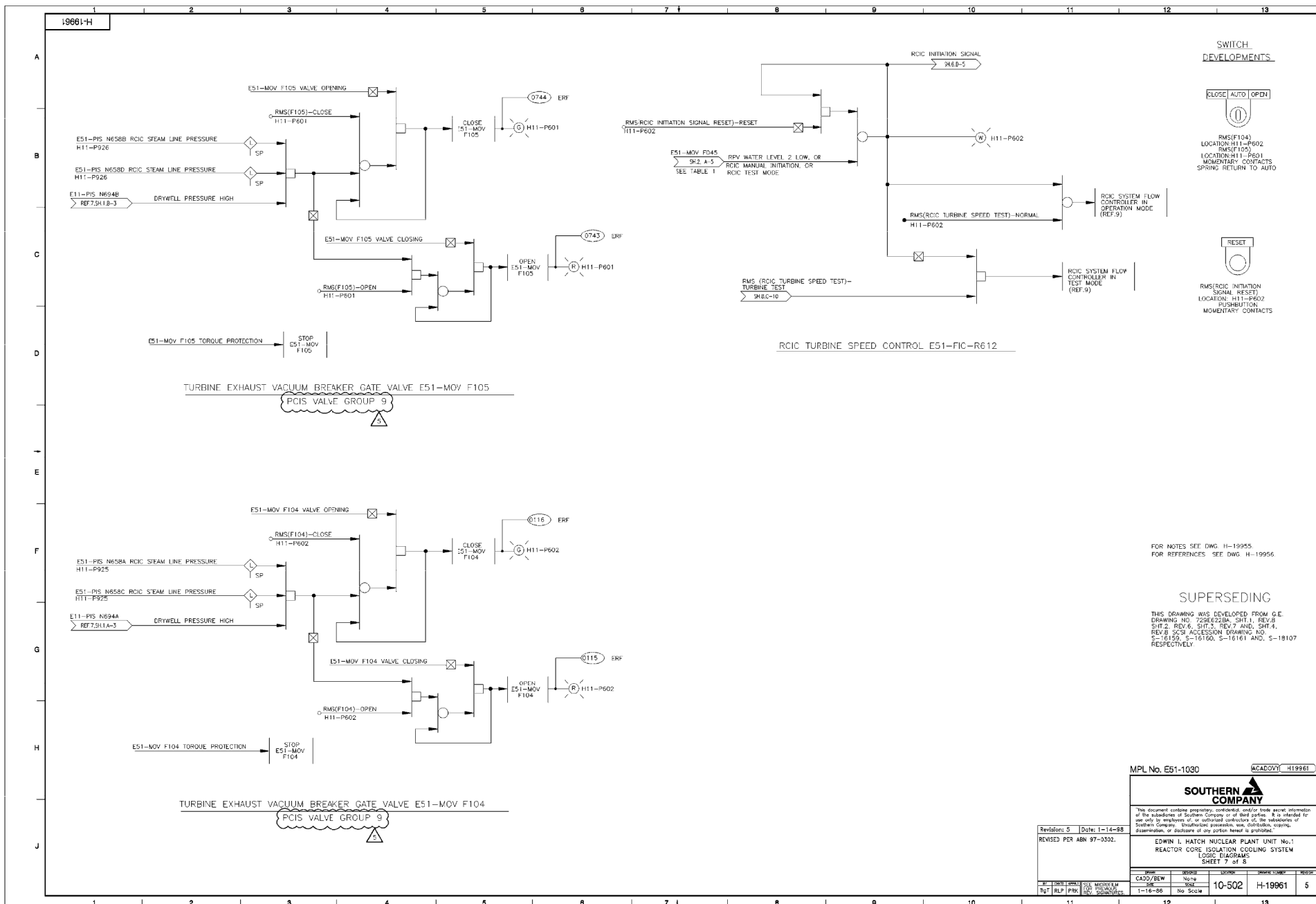
MPL No. E51-1030		ACA37K H19957	
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<p>EDWIN L. HATCH NUCLEAR PLANT UNIT No.1 REACTOR CORE ISOLATION COOLING SYSTEM LOGIC DIAGRAMS Sheet 3 of 8</p>			
REVISED	DESIGNED	CHECKED	APPROVED
1-15-86	1-15-86	1-15-86	1-15-86
1-15-86	1-15-86	1-15-86	1-15-86



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29661-H

E51-MOV F007 ELECTRICAL PROTECTION

E51-MOV F029 ELECTRICAL PROTECTION

E51-MOV F019 ELECTRICAL PROTECTION

E51-MOV F031 ELECTRICAL PROTECTION

E51-MOV F008 ELECTRICAL PROTECTION

E51-MOV F046 ELECTRICAL PROTECTION

E51-MOV F022 ELECTRICAL PROTECTION

E51-MOV F010 ELECTRICAL PROTECTION

E51-MOV F045 ELECTRICAL PROTECTION

E51-MOV F012 ELECTRICAL PROTECTION

E51-MOV F013 ELECTRICAL PROTECTION

3

E51-MOV F008

SH6.C-5

E51-MOV F007

SH5.J-5

E51-MOV F008

SH6.D-5

E51-MOV F007

SH5.E-5

E51-MOV F008

SH6.A-7

E51-MOV F007

SH5.B-7

(SEE REF. 1

GENERAL NOTE 6)

10 SECS

E51-MOV F045 VALVE FULLY CLOSED

E51-MOV F019

SH4.D-3

RCIC PUMP DISCHARGE FLOW HIGH

E51-TS N752 RCIC TURBINE GOVERNOR END BEARING OIL TEMP. HIGH

E51-TS N753 RCIC TURBINE COUPLING END BEARING OIL TEMP. HIGH

E51-MOV F045

SH1.E-6

RPV WATER LEVEL 8 HIGH

E51-PS N684 RCIC PUMP SUCTION PRESSURE

H11-P925

E51-MOV F104 VALVE FULLY OPEN

E51-MOV F105 VALVE FULLY OPEN

H11-P602
(3-09)H11-P602
(3-14)H11-P602
(3-02)H11-P602
(3-22)H11-P602
(3-16)H11-P602
(3-10)H11-P602
(2-24)H11-P602
(3-15)H11-P602
(3-26)E51-MOV F054
SH3.A-3

CONDENSATE DRAIN POT LEVEL HIGH

E51-V/V K603 RCIC INVERTER LOSS OF POWER
H11-P63E51-PS N030 RCIC PUMP SUCTION PRESSURE HIGH
H21-PC17E51-PS N056A RCIC TURBINE EXHAUST PRESS.
H11-P925E51-PS N656C RCIC TURBINE EXHAUST PRESS.
H11-P925RMS(RCIC TURBINE SPEED TEST)-TURBINE TEST
H11-P602

RCIC TURBINE TRIP AND THROTTLING VALVE FULLY CLOSED

CST LEVEL LOGIC BUS LOSS OF POWER
H11-P621RCIC LOGIC BUS A LOSS OF POWER
H11-P621RCIC LOGIC BUS B LOSS OF POWER
H11-P623

E51-DPS N754 RCIC TURBINE OIL FILTER DIFF. PRESS. HIGH

E51-PS N755 BAROMETRIC CONDENSER PRESS. HIGH

E51-LS N757 BAROMETRIC CONDENSER LEVEL LOW

E51-LS N756 BAROMETRIC CONDENSER LEVEL HIGH

E51-LS N758 BAROMETRIC CONDENSER LEVEL HIGH-HIGH

E51-PS N751 RCIC TURBINE BEARING OIL PRESS. LOW

E51-MOV F008

RCIC ISOLATION SIGNAL LOGIC A

E51-MOV F007

RCIC ISOLATION SIGNAL LOGIC B

SWITCH
DEVELOPMENTSNORMAL TURBINE
TESTRMS(RCIC TURBINE SPEED TEST)
LOCATION: H11-P602
MAINTAINED CONTACTSRCIC SYSTEM FLOW
CONTROLLER IN TEST MODE
SH7.D-8X75-P131
(AA70)H11-P602
(3-01)H11-P602
(3-25)H11-P602
(3-32)H11-P602
(3-28)H11-P602
(3-33)H11-P602
(3-27)H11-P602
(3-04)H11-P602
(3-07)H11-P602
(3-13)FOR NOTES SEE DWG. H-19956
FOR REFERENCES SEE DWG. H-19956

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E.
DRAWING NO. 77962220, SPT 1, REV. 8
SPT 2, REV. 9, SPT 3, REV. 7 AND SPT 4,
REV. 8. SUCH ACCESSION DRAWING NO.
S-18156, S-18160, S-18161 AND S-18107
RESPECTIVELY.

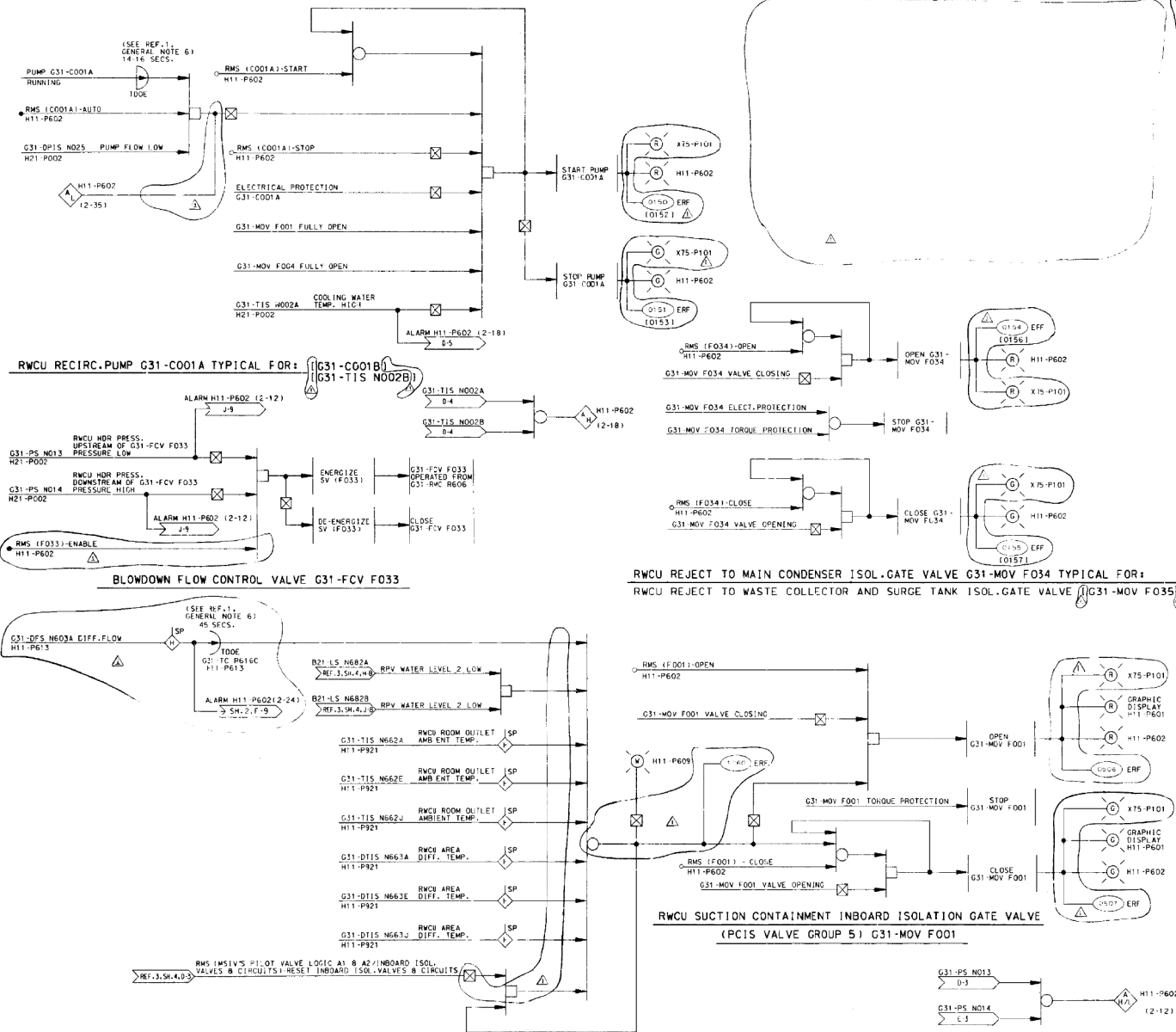
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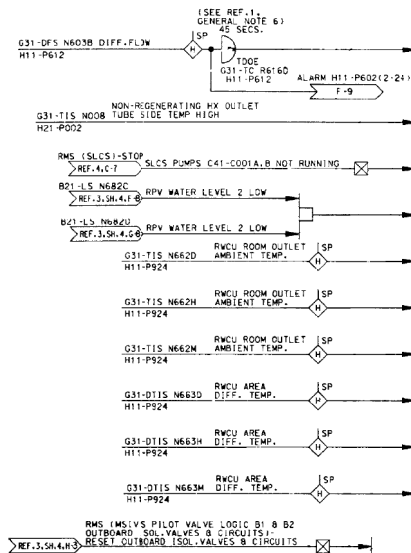
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dissemination, or disclosure of any portion thereof is prohibited.EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
REACTOR CORE ISOLATION COOLING SYSTEM
LOGIC DIAGRAMS
SHEET 8 OF 8Revision: 3 Date: 12/9/66
REVISED PER
ABN 94-0033-005.CADD/REV
1-16-86
None10-502
H-19962

3

E9661-H



79661-H

A
B
C
D
E
F
G
H
JRMS (F004)-OPEN
H11-P601

G31-MOV F004 VALVE CLOSING

H11-P609

1063 ERF

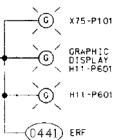
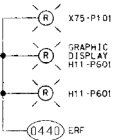
G31-MOV F004 TORQUE SWITCH FOR VALVE SEIZING

2

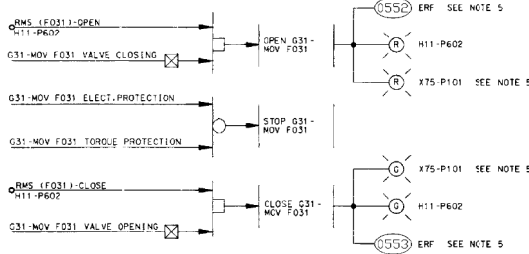
STOP G31-MOV F004

RMS (F004)-CLOSE
H11-P601

G31-MOV F004 VALVE OPENING



RWCU SUCTION CONTAINMENT OUTBOARD ISOLATION GATE VALVE (PCIS VALVE GROUP 5) G31-MOV F004

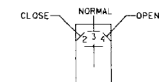


RWCU G31-RO D001 BYPASS GLOBE VALVE G31-MOV F031 TYPICAL FOR:

RWCU RETURN ISOL. GLOBE VALVE G31-MOV F042

RWCU FILTER DEMIN. BYPASS GLOBE VALVE G31-MOV F044

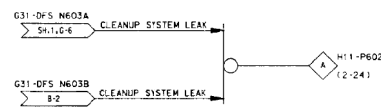
SWITCH DEVELOPMENTS



RMS (F001)
LOCATION: H11-P602

RMS (F004)
LOCATION: H11-P601

MOMENTARY CONTACTS
IN "CLOSE" AND "OPEN"
SPRING RETURN TO "NORMAL"



1. FOR NOTES AND REFERENCES, SEE DWG. H-19962

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E.
DRAWING NO. 728F608, SH.1.1, REV. 9
SCSI ACCESSION DRAWING NO. S-15889

MPL NO. G31-1030

AcadDwg H19964

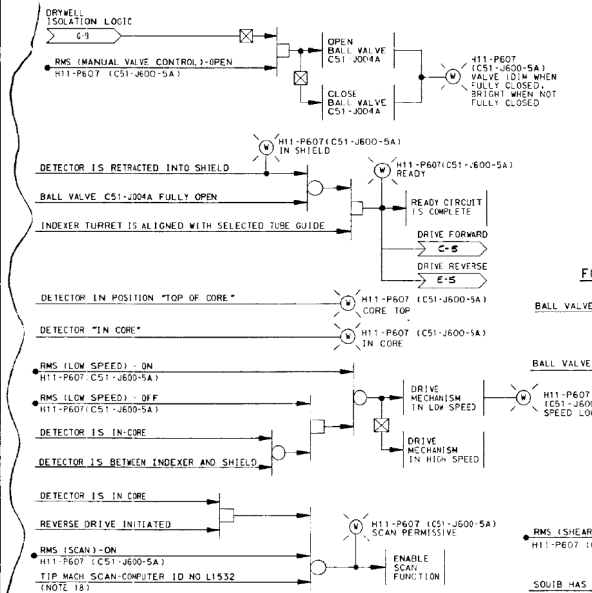
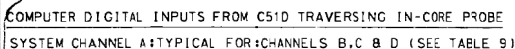
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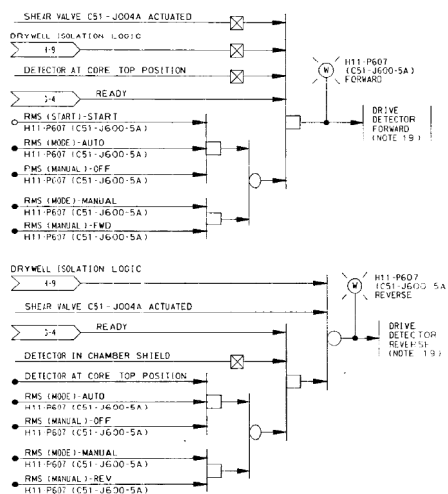
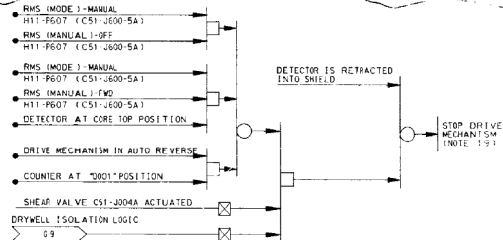
EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
REACTOR WATER CLEAN-UP SYSTEM
LOGIC DIAGRAMS
SHEET 2 OF 2

Revision: 2 Date: 4/29/99
REVISED PER
ABN 97-0039-006.

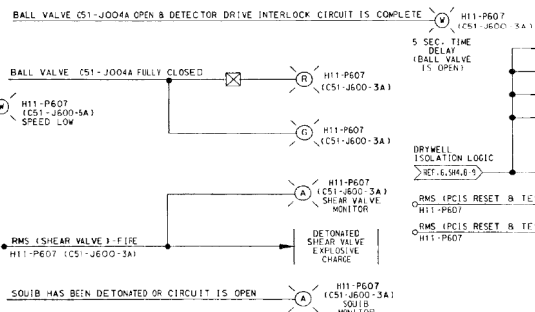
DATE	BY	CHKD	ISSUED	REVISION
11-19-85	None	None	None	2



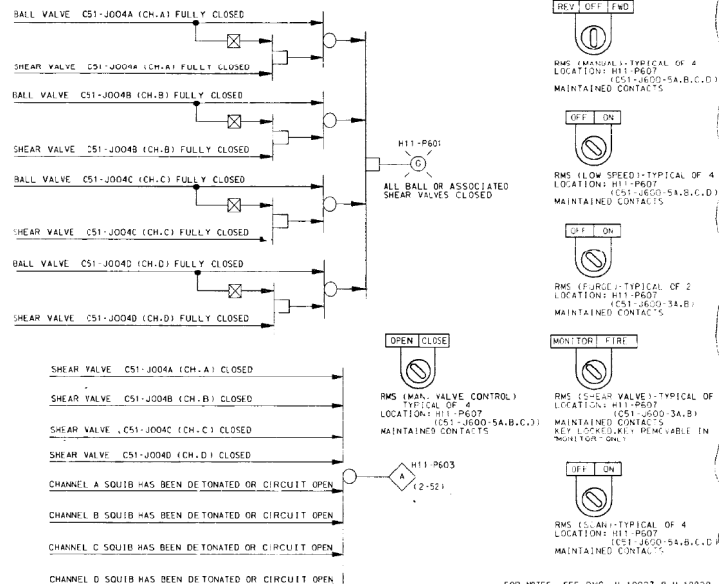
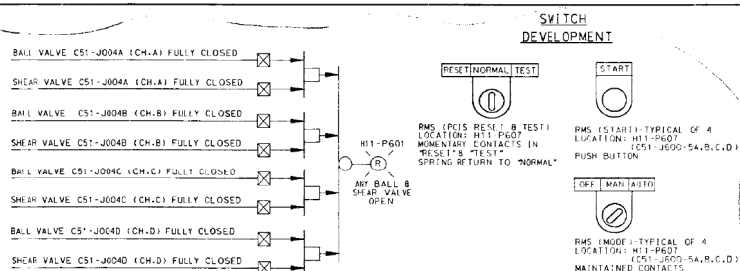
DRIVE CONTROL UNIT FOR CHANNEL A
TYPICAL FOR : CHANNELS B,C,AND D
(C51-J600-5B,C AND D)



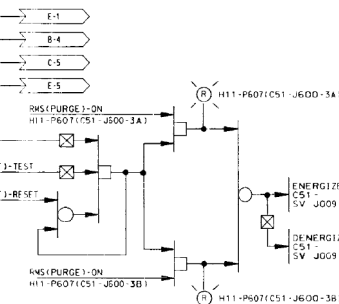
TIP DETECTOR DRIVE CONTROL LOGIC (NOTE 19)
FOR CH. A; TYP. FOR CH. B, C, AND D (C51-J600-5B, C, AND D)



BALL AND SHEAR VALVE CONTROL MONITOR
FOR CH.A: TYPICAL FOR CH.B, AND (C51-J600-3B) FOR CHANNELS C AND D

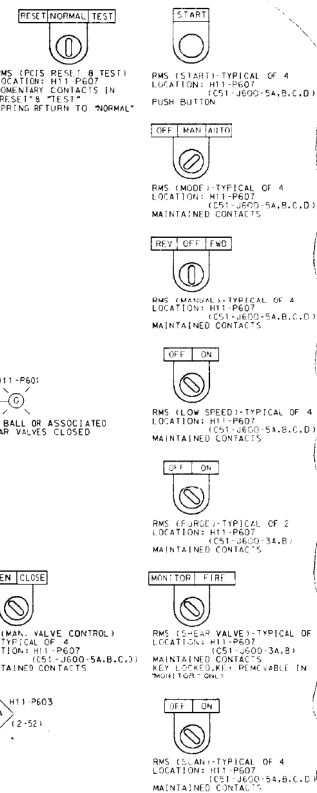


BALL AND SHEAR VALVE STATUS AND ANNUNCIATION LOGIC



DRY GAS PURGE CONTROL LOGIC

SWITCH DEVELOPMENT



FOR NOTES, SEE DWG. H-19927 & H-19928
FOR REFERENCES, SEE DWG. H-19931.
FOR S.I. & O.I. & S.EE DWG. H-19966.

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E.
DRAWING NO. 729L631B

SHT.	REV.	SCSI ACCESSION DWG. NO.
1	5	S-16270
2	5	S-16271
3	5	S-16372
4	5	S-16373
5	5	S-16374
6	4	S-16375
7	5	S-16276

MPL NO. C51-1030

RECHTEI

DECREE

GAILTHERSBURG, MAE (AN)

[illegible]

SOUTHERN SERVICES INC.
FOR

FOR

FLORIDA POWER CO., ATLANTA, GA.

GENERAL ENGINEERING DEPARTMENT

1. HATCH NUCLEAR PLANT UNIT NO
2. TRON MONITORING SYSTEM (NMS)

LOGIC DIAGRAMS
SHEET 3 OF 8

SHEET 7 OF 8

SCALE	DATE
-------	------

DATE	03-27-96
DRAWING NUMBER	

LOCATION	SHEET NO.
10-EC2	11-188

	10-302	H-199
12		13

99661-H

SRM/IRM DETECTOR C51-RE N001A/C51-RE N002A
FULLY REMOVED FROM THE CORE
H11-P608IRM RETRACT PERMIT
SH-3, C-8
SRM RETRACT PERMIT
SH-4, E-8

1100 REF. NOTE 21

RMS(SRM/IRM DETECTOR POSITION) - POWER ON
H11-P603

C-7

SRM/IRM DETECTOR C51-RE N001A/C51-RE N002A
FULLY INSERTED IN THE CORE
H21-P008

COMPUTER C1609

SH-3, F-10

COMPUTER C1609 & ALARM H11-P603

SH-4, F-7, G-7, H-7, J-7 (2-22)

ROD WITHDRAWAL BLOCK LOGIC

SH-6, A-5, B-5, D-5, F-5, G-2, J-2

1104 REF. NOTE 22

TABLE 10

SRM CHANNEL A	MOTOR MODULE A	C51-5001 A
SRM CHANNEL B	MOTOR MODULE B	C51-5001 B
SRM CHANNEL C	MOTOR MODULE C	C51-5001 C
SRM CHANNEL D	MOTOR MODULE D	C51-5001 D
IRM CHANNEL A	MOTOR MODULE E	C51-5001 E
IRM CHANNEL B	MOTOR MODULE F	C51-5001 F
IRM CHANNEL C	MOTOR MODULE G	C51-5001 G
IRM CHANNEL D	MOTOR MODULE H	C51-5001 H
IRM CHANNEL E	MOTOR MODULE J	C51-5001 J
IRM CHANNEL F	MOTOR MODULE K	C51-5001 K
IRM CHANNEL G	MOTOR MODULE L	C51-5001 L
IRM CHANNEL H	MOTOR MODULE M	C51-5001 M

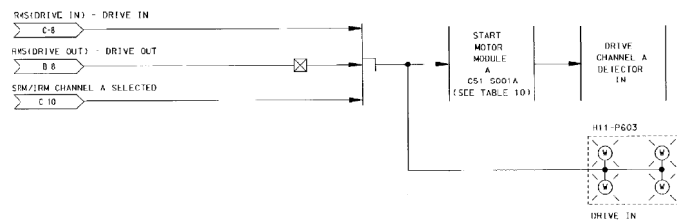
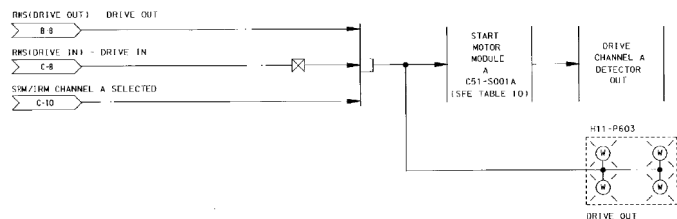
SRM/IRM MOTOR MODULES

TABLE 9

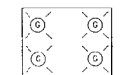
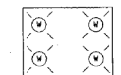
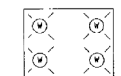
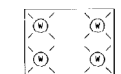
DESCRIPTION	COMPUTER ID NUMBERS			
	CHANNEL A	CHANNEL B	CHANNEL C	CHANNEL D
DRIVE CONTROL UNIT	C51-J600-5A	C51-J600-5B	C51-J600-5C	C51-J600-5D
TIP MACH SCAN	L1532	L1533	L1534	L1535
TIP POSITION POS. SC ENABLE	L1500	L1501	L1502	L1503
TIP CORE TOP ENABLE	L1516	L1517	L1518	L1519
TIP GUIDE ADDRESS	BCD-1	C1823	C1827	C1831
	BCD-2	C1824	C1828	C1832
	BCD-4	C1825	C1829	C1833
	BCD-8	C1826	C1830	C1834
TIP READY	C1860	C1861	C1862	C1863

SOURCE: RANGE MONITOR/INTERMEDIATE RANGE MONITOR DETECTOR DRIVE CONTROL SYSTEM CHANNEL A

TYPICAL: FOR SRM CHANNELS B,C,D AND IRM CHANNELS B,C,D,E,F,G,H.



SWITCH DEVELOPMENTS

POWER ON
RMS(SRM/IRM DETECTOR POSITION)
LOCATION: H11-P603
4 LAMP BACK LIGHTED
MAINTAINED CONTACTSDRIVE IN
RMS(DRIVE IN)
LOCATION: H11-P603
4 LAMP BACK LIGHTED PUSHBUTTON
MOMENTARY CONTACTSDRIVE OUT
RMS(DRIVE OUT)
LOCATION: H11-P603
4 LAMP BACK LIGHTED PUSHBUTTON
MOMENTARY CONTACTSSRM/IRM CHANNEL SELECT
RMS(SRM CHANNEL A SELECT)
RMS(SRM CHANNEL B SELECT)
RMS(SRM CHANNEL C SELECT)
RMS(SRM CHANNEL D SELECT)
RMS(SRM CHANNEL A SELECT)
RMS(SRM CHANNEL B SELECT)
RMS(SRM CHANNEL C SELECT)
RMS(SRM CHANNEL D SELECT)
RMS(SRM CHANNEL E SELECT)
RMS(SRM CHANNEL F SELECT)
RMS(SRM CHANNEL G SELECT)
RMS(SRM CHANNEL H SELECT)
LOCATION: H11-P603
2 LAMP BACK LIGHTED
MAINTAINED CONTACTSFOR NOTES, SEE DWG. H-19927 B H-19928
FOR REFERENCES, SEE DWG. H-19931.

SUPERSEDING

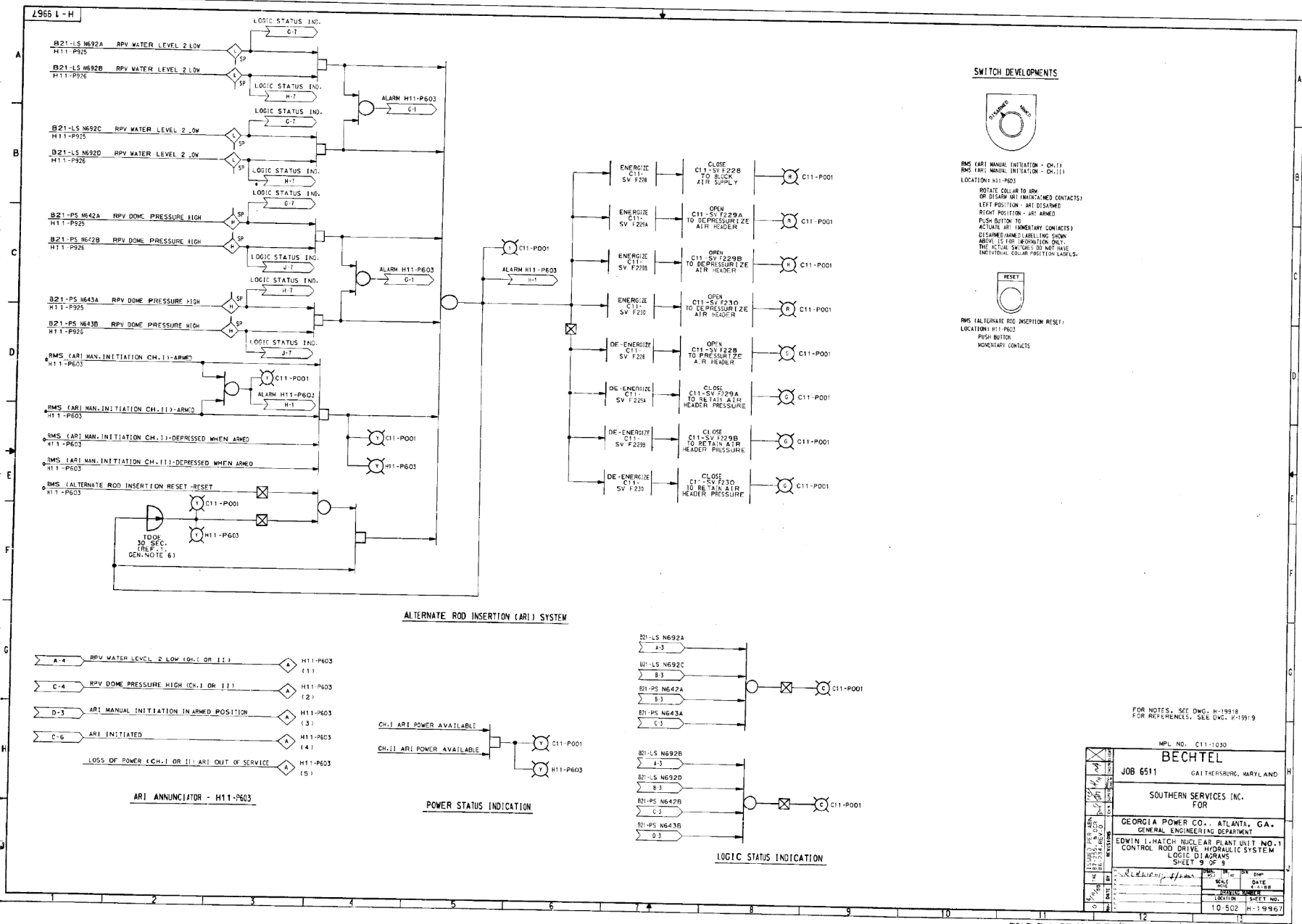
THIS DRAWING WAS DEVELOPED FROM D.E.
DRAWING NO. 7296318
SHEET NO. 1
REV. 1
C51-5001A
S-16370
S-16371
S-16372
S-16373
S-16374
S-16375
S-16376

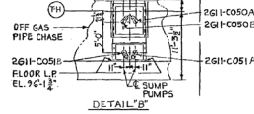
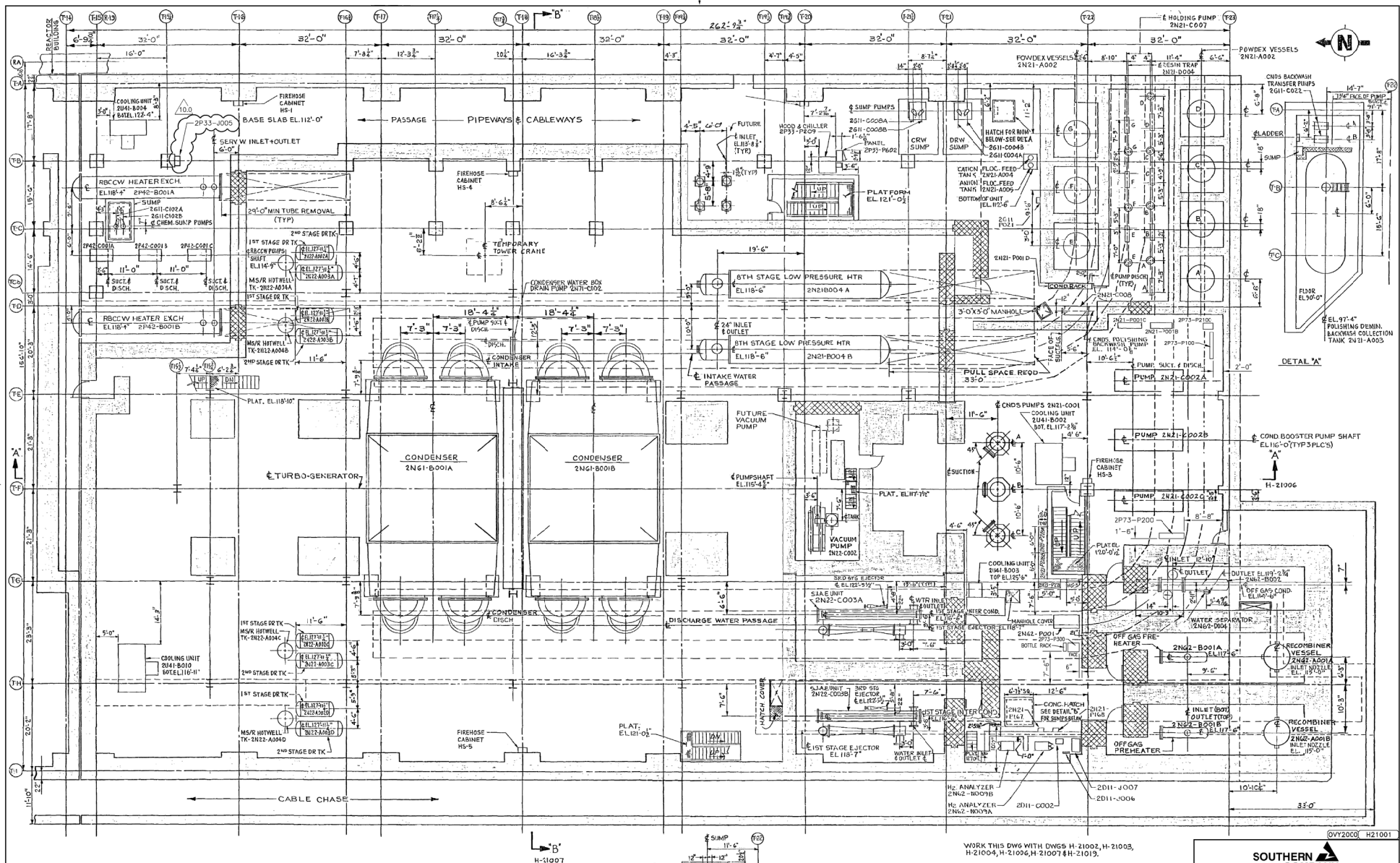
MPL NO. C51-1030

BECHTEL

JOB 6511 GAITHERSBURG, MARYLAND

SOUTHERN SERVICES INC.
FORGEORGIA POWER CO., ATLANTA, GA.
GENERAL ENGINEERING DEPARTMENT
EDWIN I. HATCH NUCLEAR PLANT UNIT NO. 1
NEUTRON MONITORING SYSTEM (NMS)
LOGIC DIAGRAMS
SHEET 8 OF 8APPROVED: KOSI 4/9/82
SCALE: 1:1
DATE: 4/9/82
DRAWN: J. S. S.
CHECKED: J. S. S.
10-502 H-19966





WORK THIS DWG WITH DWGS H-21002, H-21003, H-21004, H-21006, H-21007 & H-21019.

Version: 10.0 | Date: 6-8-05
 REVISED PER ABN 05-26, VER.1.0

NO.	DATE	BY	CHKD	REV	DESCRIPTION
1	10-16-71	WWD/ASK	WWD/ASK	1/8"	10-502

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EDWIN I. HATCH NUCLEAR PLANT UNIT No.2
 GENERAL ARRANGEMENT - TURBINE ROOM
 BASE SLAB ELEVATION 112'-0"

0VY2000 H21001



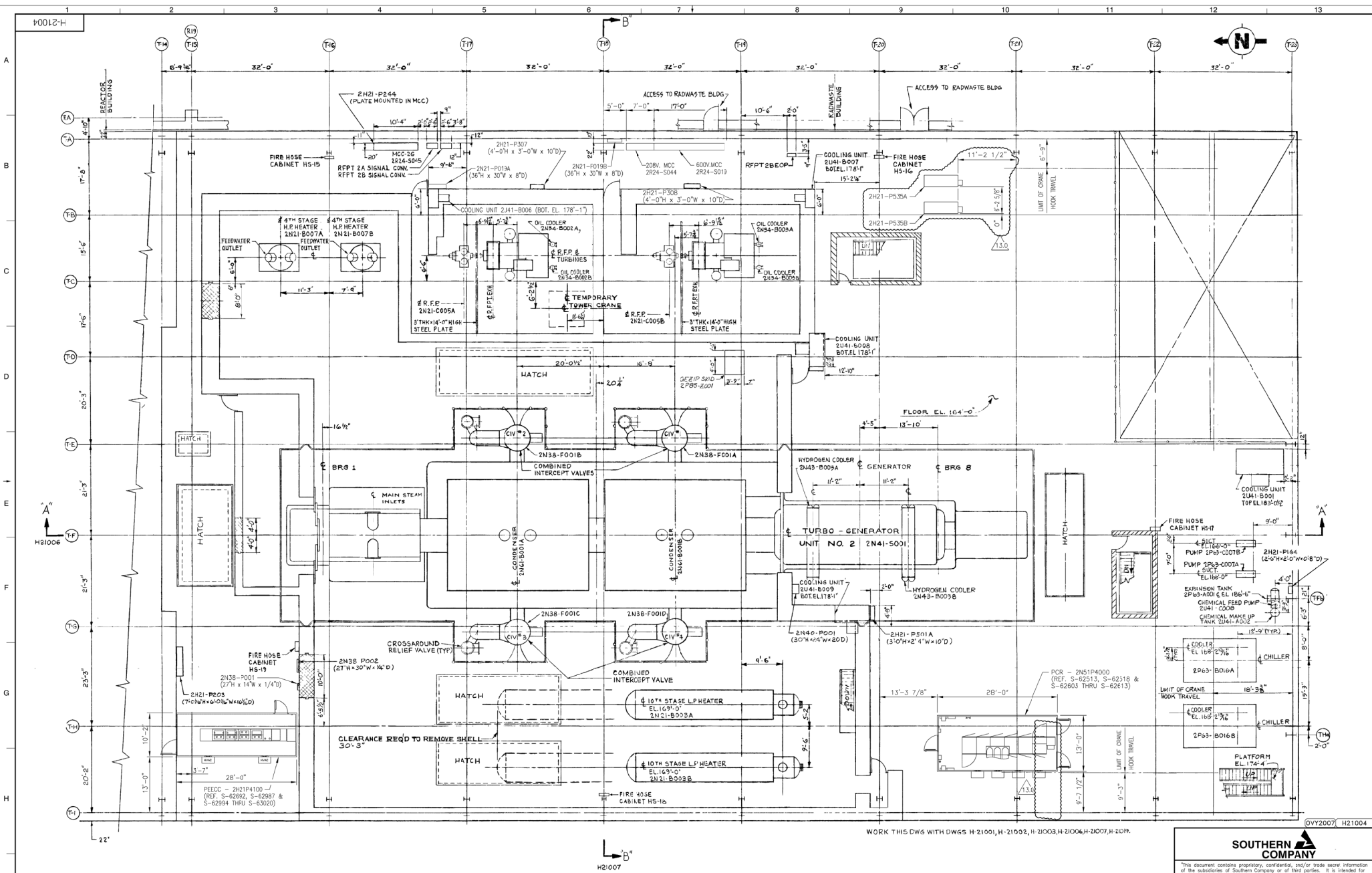
(OVY20C0) H21003

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**1. HATCH NUCLEAR PLANT UNIT No.2
GENERAL ARRANGEMENT—TURBINE ROOM
FLOOR SLAB L6 147'-0"**

REVISED	LOCATION	REVISIONS	DATE
RCS			
SOUT	10-502	H-21003	3.0
None			



WORK THIS DWS WITH DWS H-21001, H-21002, H-21003, H-21004, H-21007, H-21009.

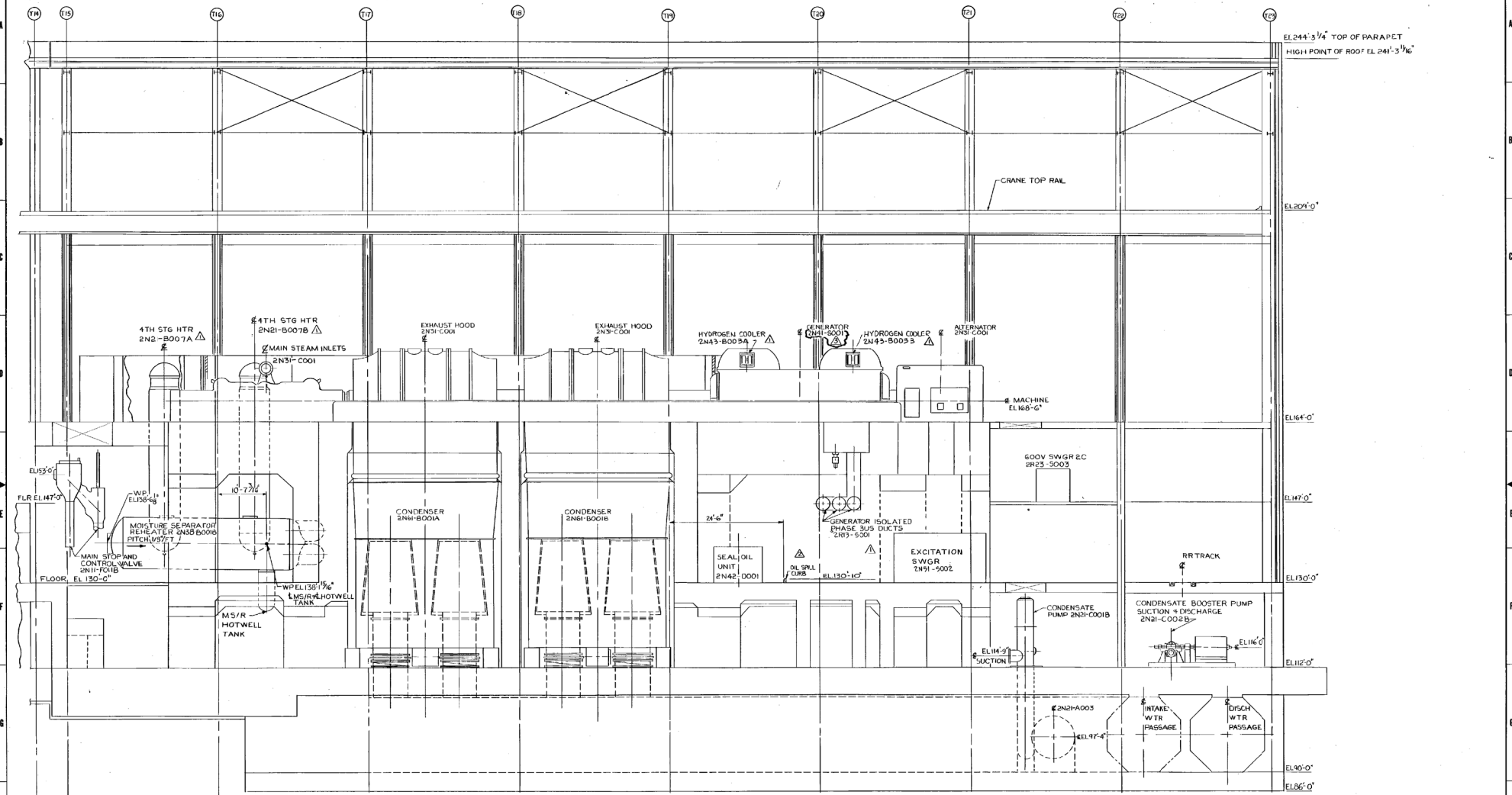


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Version: 13.0 Date: 07-02-15
 REVISED PER AEN
 SNC115357M013, VER. 2.0

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
 GENERAL ARRANGEMENT - TURBINE
 ROOM OPERATING FLOOR
 EL. 164'-0"

ISSUED	REVISION	LOCATION	ISSUING NUMBER	VERSION
AK	TRP	DFM	5-24-71	1/8"=1'-0"
10-502	H-21004	13.0		

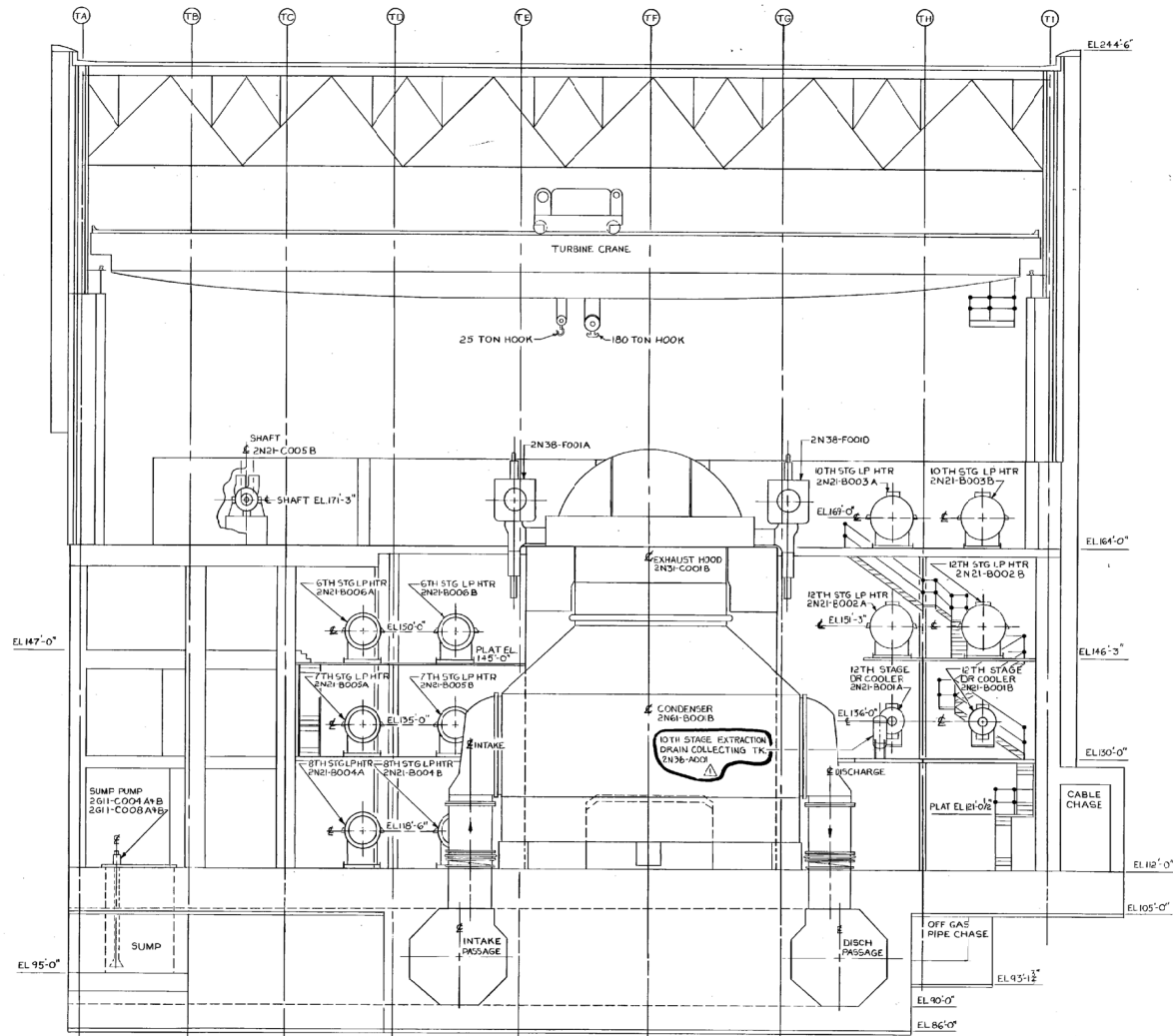


ELEVATION "A-A"
LOOKING EAST

WORK THIS DWG WITH DWG: 11-B1001, 21002, 21003, 21004, 21007, 21019

BECHTEL JOB 8511 GAITHERSBURG, MARYLAND SOUTHERN SERVICES INC. FOR GEORGIA POWER CO., ATLANTA, GA. GENERAL ENGINEERING DEPARTMENT PLANT HATCH UNIT NO. 2 GENERAL ARRANGEMENT TURBINE BUILDING ELEVATION "A-A"		DRAWN: [Signature] DATE: 10/1/73	CHECKED: [Signature] DATE: 10/1/73
		DRAWING NUMBER 10-502	
		SHEET NO. H21006	
		LOCATION 10-502	

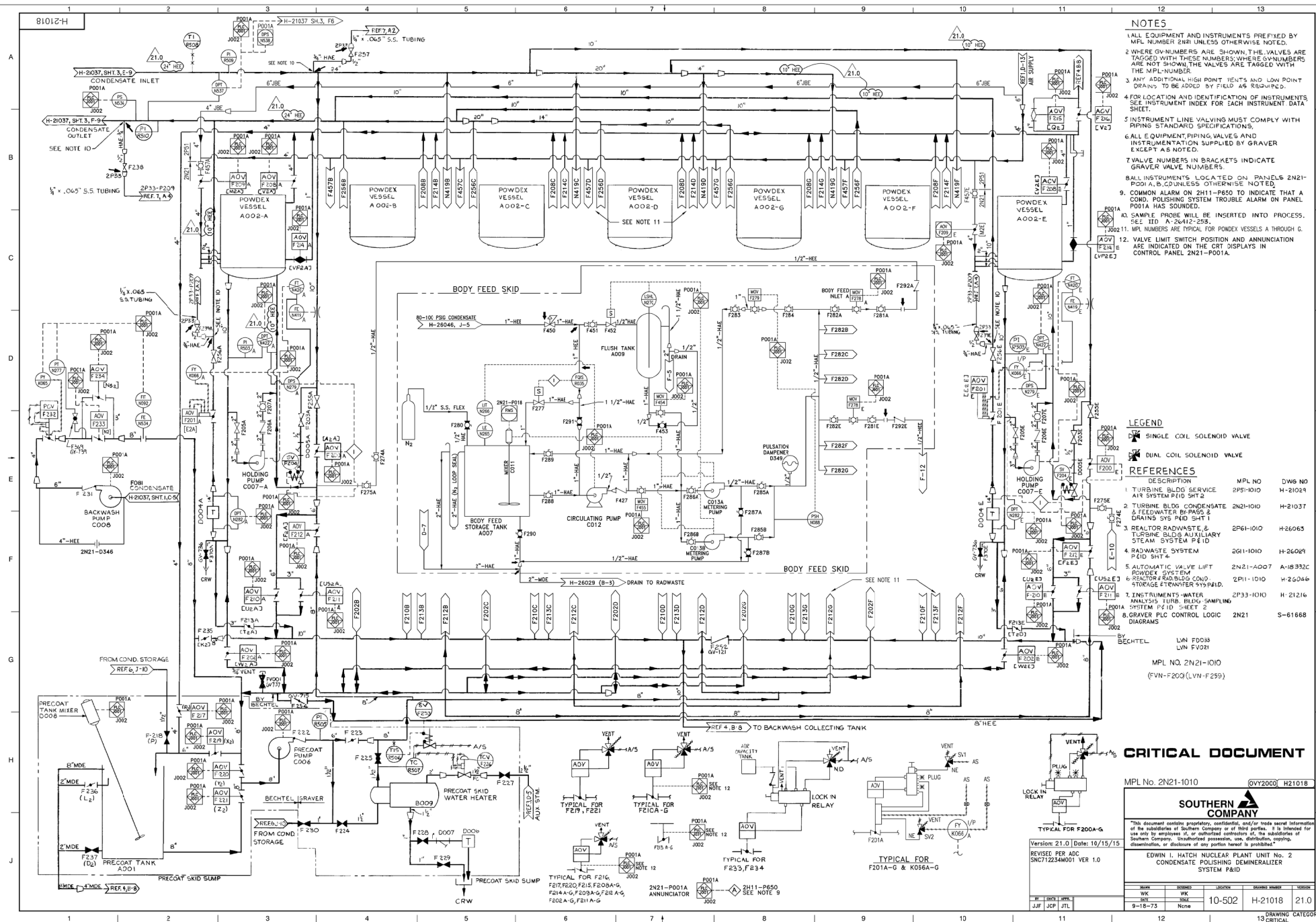
22 99-GPPD Magnificent W 477



ELEVATION 'B-B'
LOOKING SOUTH

WORK THIS DWG WITH DWG H-21001, 21002, 21003, 21004, 21006, 21011

BECHTEL	
JOB 6511	GAITHERSBURG, MARYLAND
SOUTHERN SERVICES INC.	
FOR	
GEORGIA POWER CO., ATLANTA, GA.	
GENERAL ENGINEERING DEPARTMENT	
PLANT HATCH UNIT NO. 2	
GENERAL ARRANGEMENT	
TURBINE BUILDING ELEVATION 'B-B'	
DESIGNED BY CHECKED BY DATE 7/9/73	DRAWING NUMBER 10-502 H21007

**CRITICAL DOCUMENT**MPL No. 2N21-1010 OVY2000 H21018

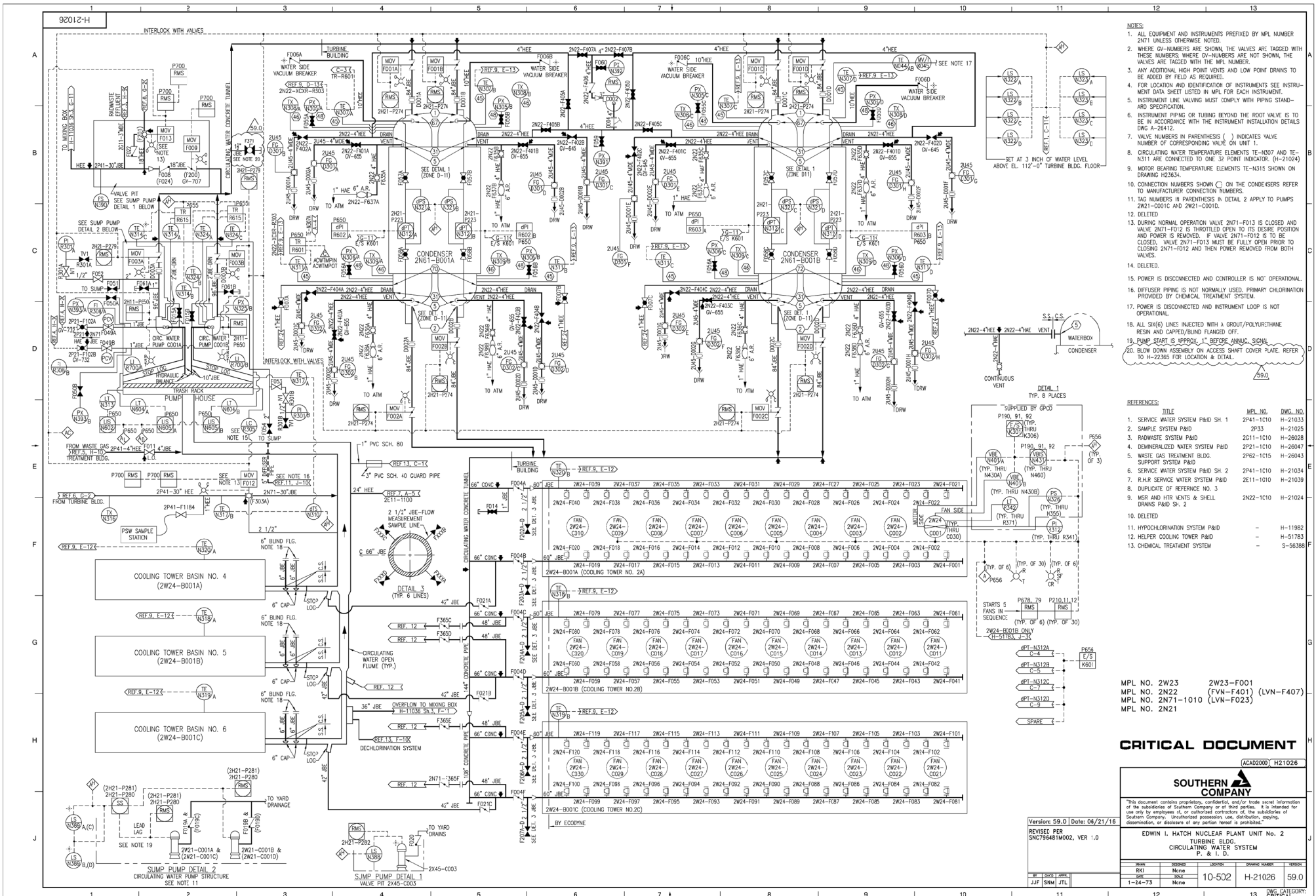
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
CONDENSATE POLISHING DEMINERALIZER
SYSTEM P&ID

MAWN	DETENDED	LOCATION	DRAWING NUMBER	VERSION
WK	WK	10-502	H-21018	21.0
DATE	SCALE			
9-18-73	None			

13	DRAWING CATEGORY	
	CRITICAL	



- NOTES:**
1. ALL EQUIPMENT AND INSTRUMENTS PREFIXED BY MPL NUMBER 2N71 UNLESS OTHERWISE NOTED.
 2. WHERE GV-NUMBERS ARE SHOWN, THE VALVES ARE TAGGED WITH THESE NUMBERS. WHERE GV-NUMBERS ARE NOT SHOWN, THE VALVES ARE TAGGED WITH THE MPL NUMBERS.
 3. ANY ADDITIONAL HIGH POINT VENTS AND LOW POINT DRAINS TO BE ADDED BY FIELD AS REQUIRED.
 4. FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS SEE INSTRUMENT DATA SHEET LISTED IN MPL FOR EACH INSTRUMENT.
 5. INSTRUMENT LINE VALVING MUST COMPLY WITH PIPING STANDARDS SPECIFICATION.
 6. INSTRUMENT PIPING OR TUBING BEYOND THE ROOT VALVE IS TO BE IN ACCORDANCE WITH THE INSTRUMENT INSTALLATION DETAILS DWG A-28412.
 7. VALVE NUMBERS IN PARENTHESES () INDICATES VALVE NUMBER OF CORRESPONDING ONE ON UNIT 1.
 8. CIRCULATING WATER TEMPERATURE ELEMENTS TE-N007 AND TE-N311 ARE CONNECTED TO ONE 32 POINT INDICATOR (H-21024).
 9. MOTOR BEARING TEMPERATURE ELEMENTS TE-N315 SHOWN ON DRAWING NUMBERS SHOWN ON CONDENSERS REFER TO MANUFACTURER CONNECTION NUMBERS.
 10. TAG NUMBERS IN PARENTHESES IN DETAIL 2 APPLY TO PUMPS 2N21-C001C AND 2N21-C001D.
 11. DELETED.
 12. DURING NORMAL OPERATION VALVE 2N71-F013 IS CLOSED AND VALVE 2N71-F012 IS THROTTLED OPEN TO ITS DESIRED POSITION AND POWER IS REMOVED. IF VALVE 2N71-F012 IS TO BE CLOSED, VALVE 2N71-F013 MUST BE FULLY OPEN PRIOR TO CLOSING 2N71-F012 AND THEN POWER REMOVED FROM BOTH VALVES.
 13. DELETED.
 14. DELETED.
 15. POWER IS DISCONNECTED AND CONTROLLER IS NOT OPERATIONAL.
 16. DIFFUSER PIPING IS NOT NORMALLY USED. PRIMARY CHORALATION PROVIDED BY CHEMICAL TREATMENT SYSTEM.
 17. POWER IS DISCONNECTED AND INSTRUMENT LOOP IS NOT OPERATIONAL.
 18. ALL SIX(6) LINES INJECTED WITH A GROUT/POLYURETHANE RESIN AND CAPPED/BLIND FLANGED OFF.
 19. PUMP START IS APPROX. 1" BEFORE ARIAC SIGNAL.
 20. BLOW DOWN ASSEMBLY ON ACCESS SHIRT COVER PLATE. REFER TO H-22365 FOR LOCATION & DETAIL.

REFERENCES:

ITEM	MPL NO.	DWG. NO.
1. SERVICE WATER SYSTEM P&ID SH 1	2P41-1C10	H-21033
2. SAMPLE SYSTEM P&ID	P233	H-21025
3. RADWASTE SYSTEM P&ID	2G11-1C10	H-26028
4. DEMINERALIZED WATER SYSTEM P&ID	2P21-1C10	H-26043
5. WASTE GAS TREATMENT BLDG.	2P62-1C15	H-26047
6. SERVICE WATER SYSTEM P&ID SH 2	2P41-1C10	H-21034
7. R.H.R. SERVICE WATER SYSTEM P&ID	2E11-1010	H-21039
8. DUPLICATE OF REFERENCE NO. 3	2N22-1C10	H-21024
9. MGR AND HTR VENTS & SHELL DRAINS P&ID SH 2	2N22-1C10	H-21024
10. DELETED	-	-
11. HYPOCHLORINATION SYSTEM P&ID	-	H-11982
12. HELPER COOLING TOWER P&ID	-	H-51783
13. CHEMICAL TREATMENT SYSTEM	-	S-56386

MPL NO. 2W23 (2W23-F001)
MPL NO. 2N22 (FVN-F401) (LVN-F407)
MPL NO. 2N71-1010 (LVN-F023)
MPL NO. 2N21

CRITICAL DOCUMENT

ACAD2000 H21026

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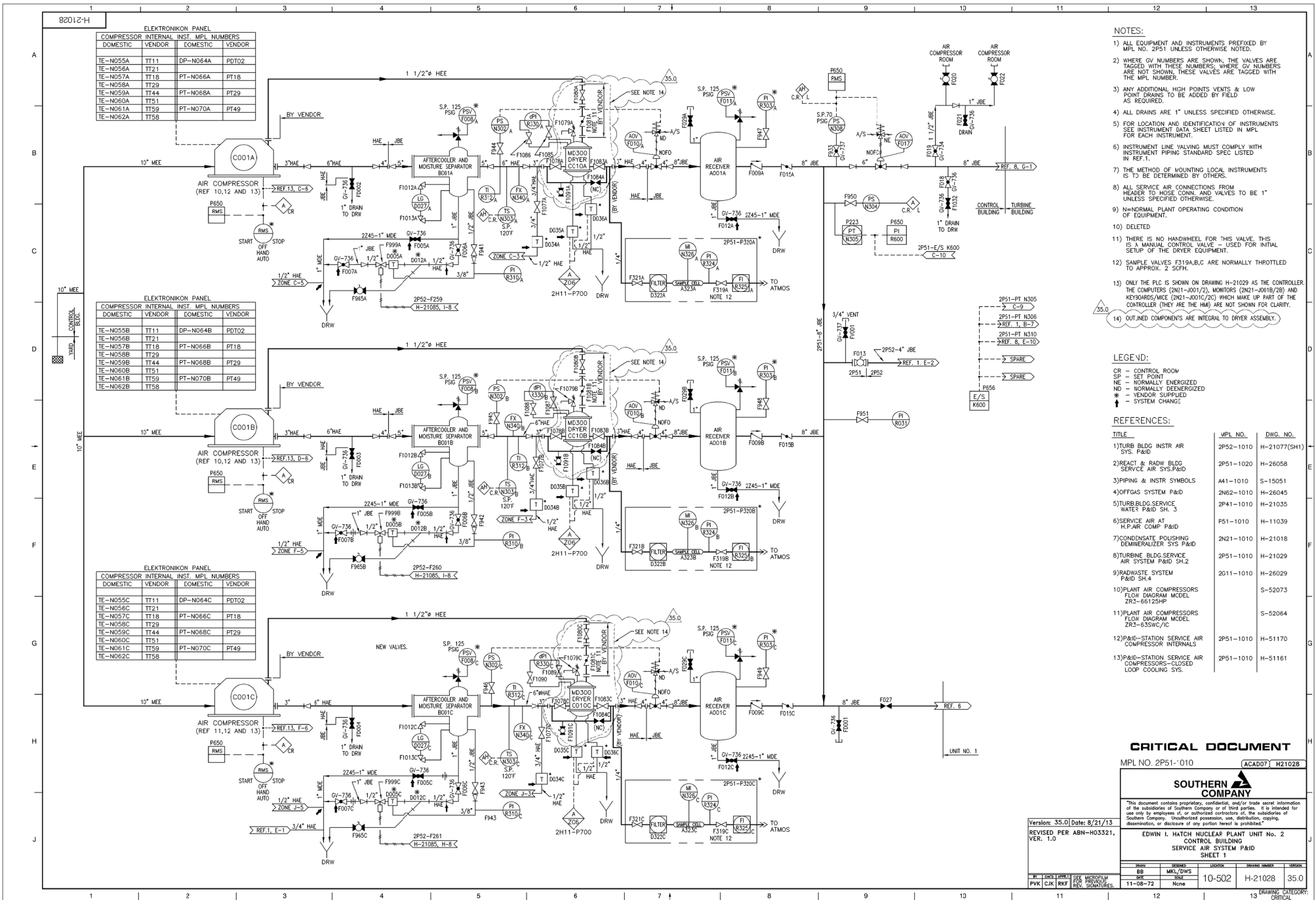
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
CIRCULATING WATER SYSTEM
P. & I. D.

REV	DESCRIPTION	DATE	BY	CHKD	APPD
1	Initial	10-502	H-21026	59.0	
2	Revised	1-24-73	None		

Version: 59.0 Date: 06/21/16
REVISED PER SNG795461M002, VER 1.0

DWG. CATEGORY: CRITICAL



- NOTES:
- 1) ALL EQUIPMENT AND INSTRUMENTS PREFIXED BY MPL NO. 2P51 UNLESS OTHERWISE NOTED.
 - 2) WHERE GV NUMBERS ARE SHOWN, THE VALVES ARE TAGGED WITH THESE NUMBERS. WHERE GV NUMBERS ARE NOT SHOWN, THESE VALVES ARE TAGGED WITH THE MPL NUMBER.
 - 3) ANY ADDITIONAL HIGH POINT VENTS & LOW POINT DRAINS TO BE ADDED BY FIELD AS REQUIRED.
 - 4) ALL DRAINS ARE 1" UNLESS SPECIFIED OTHERWISE.
 - 5) FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS SEE INSTRUMENT DATA SHEET LISTED IN MPL FOR EACH INSTRUMENT.
 - 6) INSTRUMENT LINE VALVING MUST COMPLY WITH INSTRUMENT PIPING MOUNTING SPEC LISTED IN REF. 1.
 - 7) THE METHOD OF SIZING LOCAL INSTRUMENTS IS TO BE DETERMINED BY OTHERS.
 - 8) ALL SERVICE AIR CONNECTIONS FROM HEADER TO HOSE CONN. AND VALVES TO BE 1" UNLESS SPECIFIED OTHERWISE.
 - 9) N=NORMAL PLANT OPERATING CONDITION OF EQUIPMENT.
 - 10) DELETED
 - 11) THERE IS NO HANDWHEEL FOR THIS VALVE. THIS IS A MANUAL CONTROL VALVE USED FOR INITIAL SETUP OF THE DRYER EQUIPMENT.
 - 12) SAMPLE VALVES F319A,B,C ARE NORMALLY THROTTLED TO APPROX. 2 SCFH.
 - 13) ONLY THE PLC IS SHOWN ON DRAWING H-21029 AS THE CONTROLLER. THE COMPUTERS (2N1-001/2), MONITORS (2N21-001B/2B) AND KEYBOARDS/MICE (2N21-001C/2C) WHICH MAKE UP PART OF THE CONTROLLER (THEY ARE THE HMI) ARE NOT SHOWN FOR CLARITY.
 - 14) OUTLINED COMPONENTS ARE INTEGRAL TO DRYER ASSEMBLY.

- LEGEND:
- CR - CONTROL ROOM
 - SP - SET POINT
 - NE - NORMALLY ENERGIZED
 - NO - NORMALLY DEENERGIZED
 - * - VENDOR SUPPLIED
 - † - SYSTEM CHANGE

REFERENCES:

TITLE	MPL NO.	DWG. NO.
1) TURB BLDG INSTR AIR SYS. P&ID	2P52-1010	H-21077(SH1)
2) REACT & RADW BLDG SERVICE AIR SYS. P&ID	2P51-1020	H-26058
3) PIPING & INSTR SYMBOLS	A41-1010	S-15051
4) OFFGAS SYSTEM P&ID	2N62-1010	H-26045
5) TURB. BLDG. SERVICE WATER P&ID SH. 3	2P41-1010	H-21035
6) SERVICE AIR AT H.P. AIR COMP. P&ID	P51-1010	H-11039
7) CONDENSATE FLOWING DEMINERALIZER SYS. P&ID	2N21-1010	H-21018
8) TURBINE BLDG. SERVICE AIR SYSTEM P&ID SH. 2	2P51-1010	H-21029
9) RADWASTE SYSTEM P&ID SH. 4	2G11-1010	H-26029
10) PLANT AIR COMPRESSORS FLOW DIAGRAM MODEL ZR3-66125HP		S-52073
11) PLANT AIR COMPRESSORS FLOW DIAGRAM MODEL ZR3-635WC/IC		S-52064
12) P&ID-STATION SERVICE AIR COMPRESSOR INTERNALS	2P51-1010	H-51170
13) P&ID-STATION SERVICE AIR COMPRESSORS-LOADED LOOP COOLING SYS.	2P51-1010	H-51161

CRITICAL DOCUMENT

MPL NO. 2P51-010 ACAD07 H21028



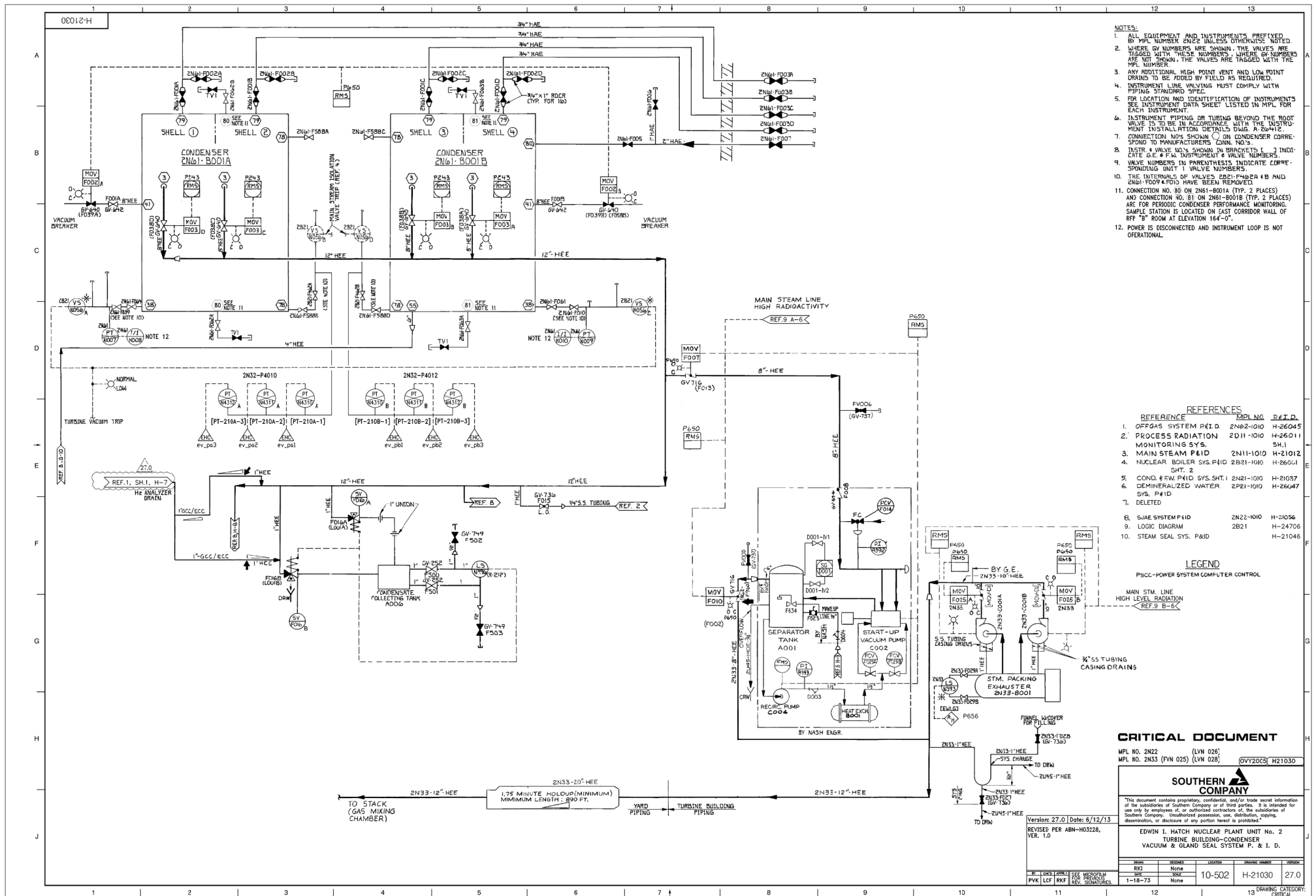
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
CONTROL BUILDING
SERVICE AIR SYSTEM P&ID
SHEET 1

Version: 35.0 Date: 8/21/13
REVISED PER ABN-H03321, VER. 1.0

NO.	DATE	BY	CHK	REV.	DESCRIPTION	LOCATION	ISSUED	REVISION	ORIGINAL
1	11-08-72	PVK	CJK	RNF	SEE MICROFILM FOR SIGNATURES	None	10-502	H-21028	35.0

DRAWING CATEGORY: CRITICAL



1 HS 21012-H

HOTWELL GAGE GLASS EQUIPMENT NUMBERS

2N61-B001A					2N61-B001B				
'A'	'A1'	'A2'	'A3'	'B'	'B1'	'B2'	'B3'		
D001A	F021	F022	F023	D001B	F043	F044	F045		
D002A	F024	F025	F026	D002B	F046	F047	F048		
D003A	F027	F028	F029	D003B	F049	F050	F051		
D004A	F030	F031	F032	D004B	F052	F053	F054		
D005A	F033	F034	F035	D005B	F055	F056	F057		
D006A	F036	F037	F038	D006B	F058	F059	F060		

Notes: ALL EQUIPMENT No.'s IN ABOVE CHART ARE PREFIXED BY MPL No. 2N61.
ALL PIPING AND EQUIPMENT SIZES ARE 3/4".

NOTES:

- ALL EQUIPMENT AND INSTRUMENTS PREFIXED BY MPL NUMBER 2N21 UNLESS OTHERWISE NOTED.
- WHERE GV-NUMBERS ARE SHOWN, THE VALVES ARE TAGGED WITH THESE NUMBERS; WHERE GV-NUMBERS ARE NOT SHOWN, THE VALVES ARE TAGGED WITH MPL #.
- ANY ADDITIONAL HIGH POINT VENTS AND LOW POINT DRAINS TO BE ADDED BY FIELD AS REQUIRED.
- FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS SEE INSTRUMENT DATA SHEET LISTED IN INSTRUMENT INDEX FOR EACH INSTRUMENT.
- INSTRUMENT LINE VALVING MUST COMPLY WITH PIPING STANDARD SPEC.
- INSTRUMENT PIPING OR TUBING BEYOND THE ROOT VALVE IS TO BE IN ACCORDANCE WITH THE INSTRUMENT INSTALLATION DETAILS DWG. A-26412.
- VALVE & INSTRUMENT NUMBERS IN PARENTHESES INDICATE THE CORRESPONDING VALVE & INSTRUMENT NUMBERS FOR UNIT 1.
- VALVE T014 SUPPLIED BY GRAVER; NO. 62 VALVES F011 & F012 (GVs) HAVE BEEN REMOVED RENDERING THEM NONOPERABLE.
- CONNECTION No.'s SHOWN ON CONDENSERS CORRESPOND TO MANUFACTURER'S CONNECTION No.'s.
- VALVE NUMBERS IN BRACKETS [] INDICATES G.E. VALVE NUMBER.
- PORTIONS OF PIPES EMBEDDED IN CONCRETE SHALL BE FABRICATED FROM STAINLESS STEEL AND REQUIREMENTS OF THE PIPE SPECS OF THE UPSTREAM LINE.
- SAMPLE PROBE WILL BE INSERTED INTO PROCESS. SEE ID A-26412-252.
- SUPPLIED BY GPC FIELD.
- DELETED.
- INDICATING LIGHTS ARE PROVIDED ON PANEL 2H21-P308, TO SHOW PRESSURE SWITCH FAIL.
- INDICATING LIGHTS ARE PROVIDED ON PANEL 2H21-P307, TO SHOW PRESSURE SWITCH FAIL.
- INDICATING LIGHTS ARE PROVIDED ON J BOX 2AM5011, TO SHOW PRESSURE SWITCH FAIL.
- INDICATING LIGHTS ARE PROVIDED ON J BOX 2AM5012, TO SHOW PRESSURE SWITCH FAIL.
- INDICATING LIGHTS ARE PROVIDED ON J BOX 2AM5013, TO SHOW PRESSURE SWITCH FAIL.
- DELETED.
- INDICATING LIGHTS ARE PROVIDED ON PANELS 2N21-P019A AND B TO SHOW NORMAL OPERATION.
- ORIFICE HAS A 1/8" DIA. VENT HOLE ADDED. TOP OF VENT HOLE IS WITHIN 3/4" OF 1/16" BELOW TOP OF PIPE ID. THE VENT HOLE ALLOWS VENTING OF NON-CONDENSABLE GASES PER ENG-309 NPPG LOG NO. 2N21-0306-011 AND CALCULATION SHW 94-002.
- INSTRUMENTS ABANDONED IN PLACE.
- FEEDWATER HEATER TUBE-SIDE VENTS, DRAINS, AND RELIEF VALVES ARE SHOWN ON DRAWINGS H-21024 & H-21025.
- ASTERISKS (*) INDICATES COMPONENTS ORIGINALLY SUPPLIED BY VENDOR.
- ONLY THE PLC IS SHOWN ON DRAWING H-21037 SH.4 AS THE CONTROLLER. THE COMPUTERS (2N21-001/2), MONITORS (2N21-001B/2B AND KEYBOARDS/MICE (2N21-001C/2C) WHICH MAKE UP PART OF THE CONTROLLER (THEY ARE THE HM) ARE NOT SHOWN FOR CLARITY.

REFERENCES:

Description	MPL No.	Dwg. No.
1. FEEDWATER CONTROL SYS. DESIGN SPEC	2C32-4010	S-25321
2. NUCLEAR BOILER SYS. PAID SH. 1	2821-1010	H-26000
3. CONDENSATE POLISHING DEAMINER/VALVE SYSTEM PAID	2N21-1010	H-21018
4. REACTOR & RADWASTE BLDGS - CONDENSATE STORAGE & TRANSFER SYS. PAID	2P11-1010	H-26046
5. MSR AND HEATER VENTS & SHELL DRAINS SYS. PAID SH.1, SH.2, & SH.3	2N22-1010	H-21023 H-21024 H-21025
6. DEAMINER/VALVE WATER SYSTEM PAID	2P21-1010	H-26047
7. MAIN STEAM SYS. PAID		H-21012
8. FUEL POOL COOLING SYS. PAID	2041-1010	H-26039
9. COND. VACUUM & GLAND SEAL SYS.		H-21030
10. TURBINE & GEN. AUX. SYS. I.E.D. RPT. CONTROL DIA.		H-21246
11. FEEDWATER CONTROL SYSTEM	2C32-1010	76E966
12. REACTOR REDUCIRCUATION SYSTEM	2B31-1030	S-27482
13. SAMPLING SYSTEM PAID		H-21205
14. TORUS DRAINAGE & PURIFICATION SYSTEM PAID AND PFD.	2051-1010	H-26042
15. RADWASTE SYSTEM PAID SH. 4	2011-1010	H-26029

REFERENCES CONTINUED ON H-21037 SHEET 2

CRITICAL DOCUMENT

MPL No. 2N21-1010 (ACAD2015) H21037(01)



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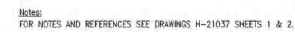
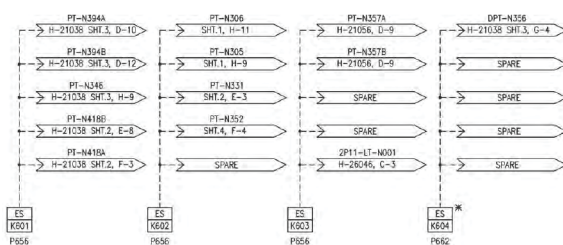
EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
CONDENSATE & FEEDWATER SYSTEM PAID

Version: 58.0 Date: 3/15/15

REVISED PER ABRN
SNC559916M017, VER. 1.0

REV.	DESCRIPTION	LOCATION	DESIGN NUMBER	ORIGIN
1	10-17-91	No Scale	10-502	H-21037 Sheet

DRAWING CATEGORY: CRITICAL

**CRITICAL DOCUMENT**

MPL # 2N21-1010

Acad2K H2103705



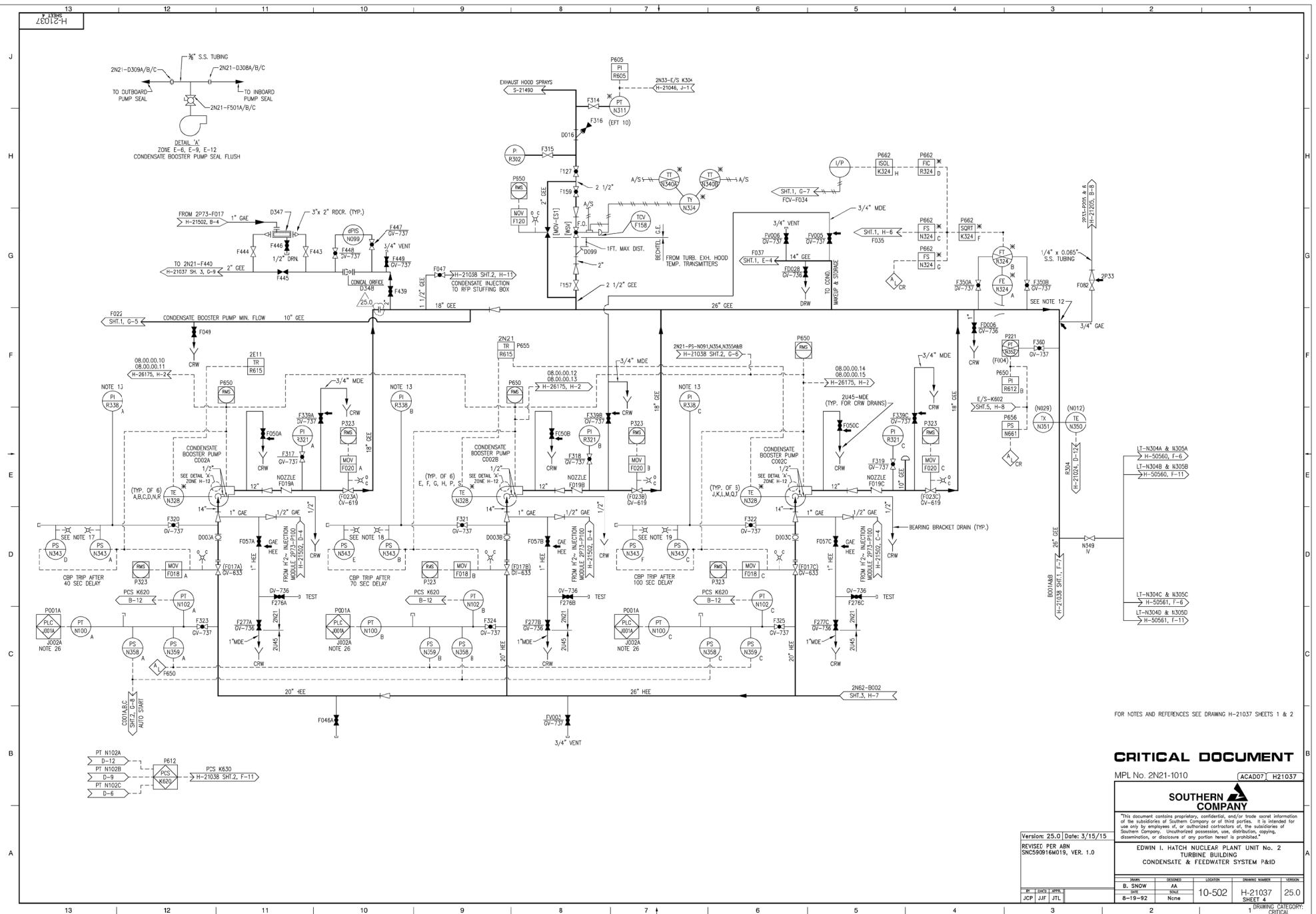
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9.	EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2 TURBINE BUILDING CONDENSATE & FEEDWATER SYSTEM P&ID
----	---

Version: 11.0	Date: 12-13-10
REVISED PER ABN-H02099, VERSION 1.0	

					SHEET 5 OF 5				
					DETAILS	DISCOUNT	LOCATIONS	DEVELOPED	REMARKS
					B. SNOW	None			
					DATE	None			
					8-20-92	None	10-502	H-21037 SHEET 5	11.0

1 DRAWING CATEGORY
CRITICAL



FOR NOTES AND REFERENCES SEE DRAWING H-21037 SHEETS 1 & 2

CRITICAL DOCUMENT

MPL No. 2N21-1010 ACAD07 H21037



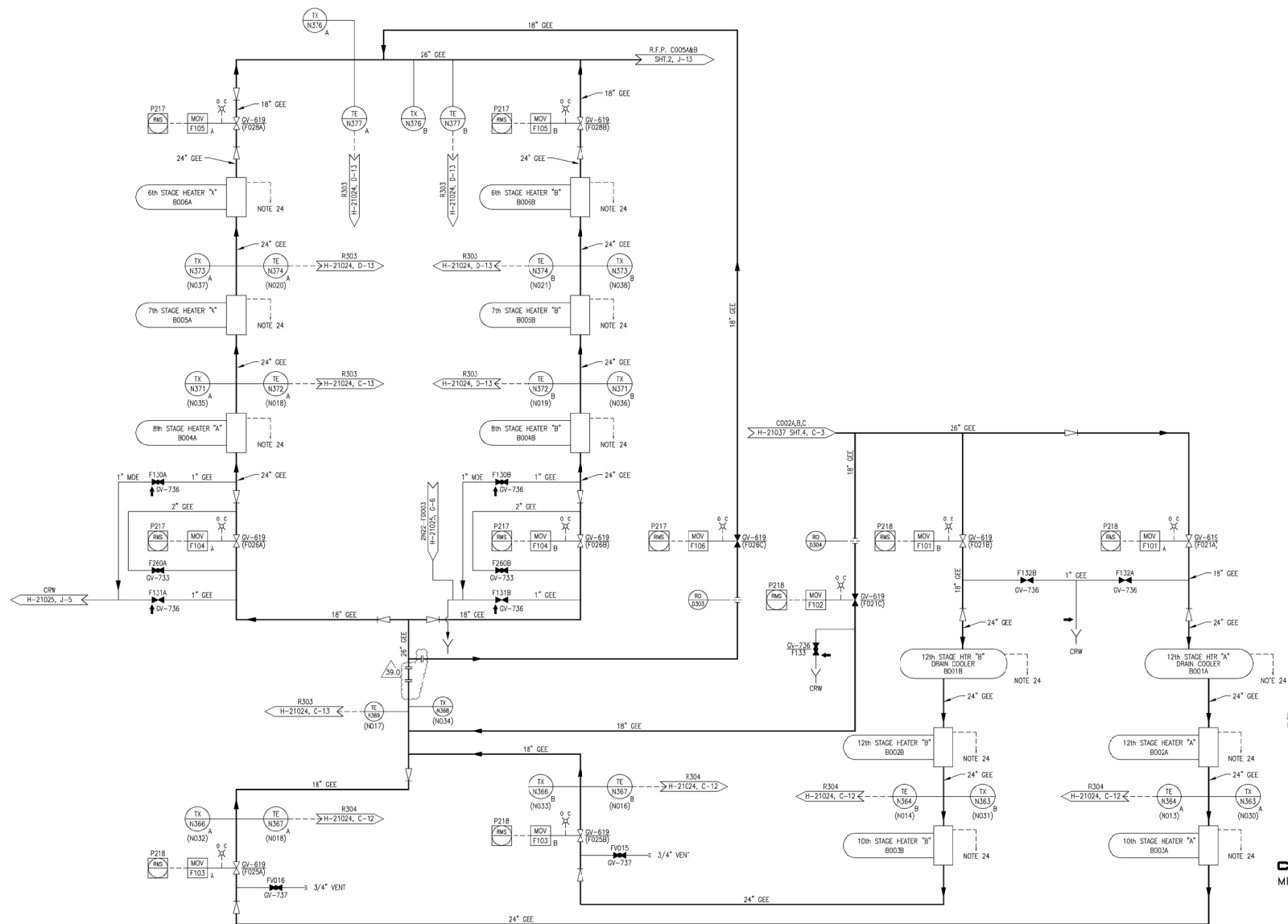
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
TURBINE BUILDING
CONDENSATE & FEEDWATER SYSTEM P&ID

Version: 25.0	Date: 3/15/15
REVISED PER ABN SNC590916M019, VER. 1.0	

		DRAWN		DESIGNED		LOCATION		DRAWING NUMBER		VERSION							
		B. SNOW		JA		10-502		H-21037 SHEET 4		25.0							
		DATE		SHEET													
		8-19-92		None													
<table border="1"> <tr> <td>BY</td> <td>CHK'D</td> <td>APP'D</td> </tr> <tr> <td>JCP</td> <td>JJF</td> <td>JTL</td> </tr> </table>		BY	CHK'D	APP'D	JCP	JJF	JTL	3		2		1		DRAWING CATEGORY: CATEGORICAL			
BY	CHK'D	APP'D															
JCP	JJF	JTL															

I HS B0012H



Note:
FOR NOTES AND REFERENCES SEE H-21037 SHEETS 1 AND 2.

CRITICAL DOCUMENT
MPL No. 2N21-1010

ACAD2K H2103801

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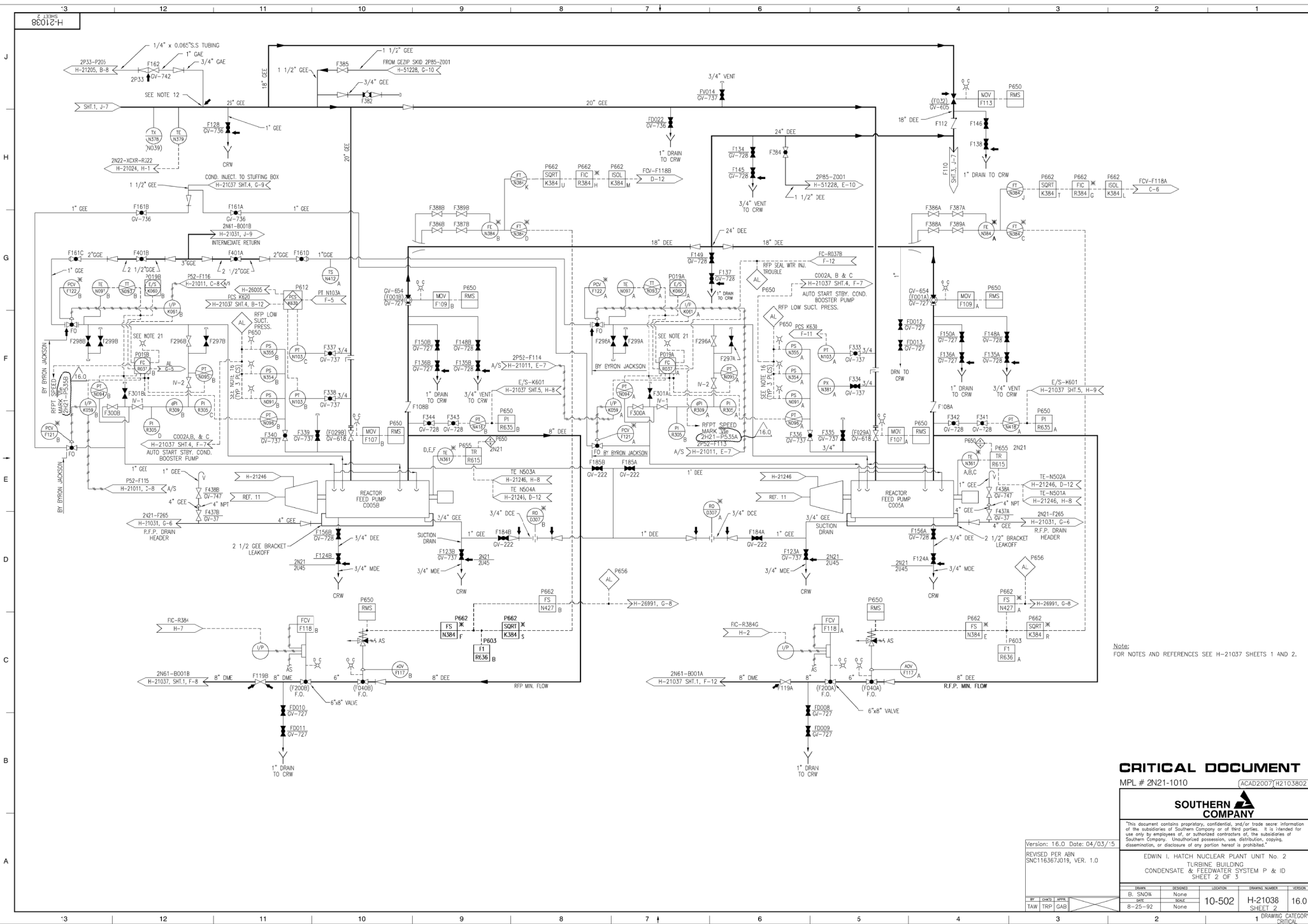
EDWIN I. HATCH NUCLEAR PLANT UNIT No.2
TURBINE BUILDING
CONDENSATE & FEEDWATER SYSTEM P&ID
SHEET 1 OF 3

Version: 39.0 Date: 3/15/15
REVISED PER AEN
SNC5901EM0203, VER. 2.0

BY	DATE	APPV
JCP	DAB	JTL

DESIGN	DESIGNED	LOCATED	DRAWING NUMBER	VERSION
B-SHOW	-	-	10-502	39.0
SHEET	-	None	H-21038	39.0
			SHEET 1	

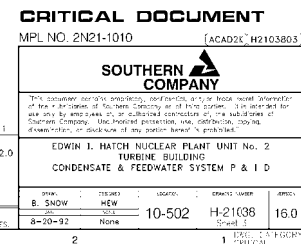
DRAWING CATEGORY:
CRITICAL

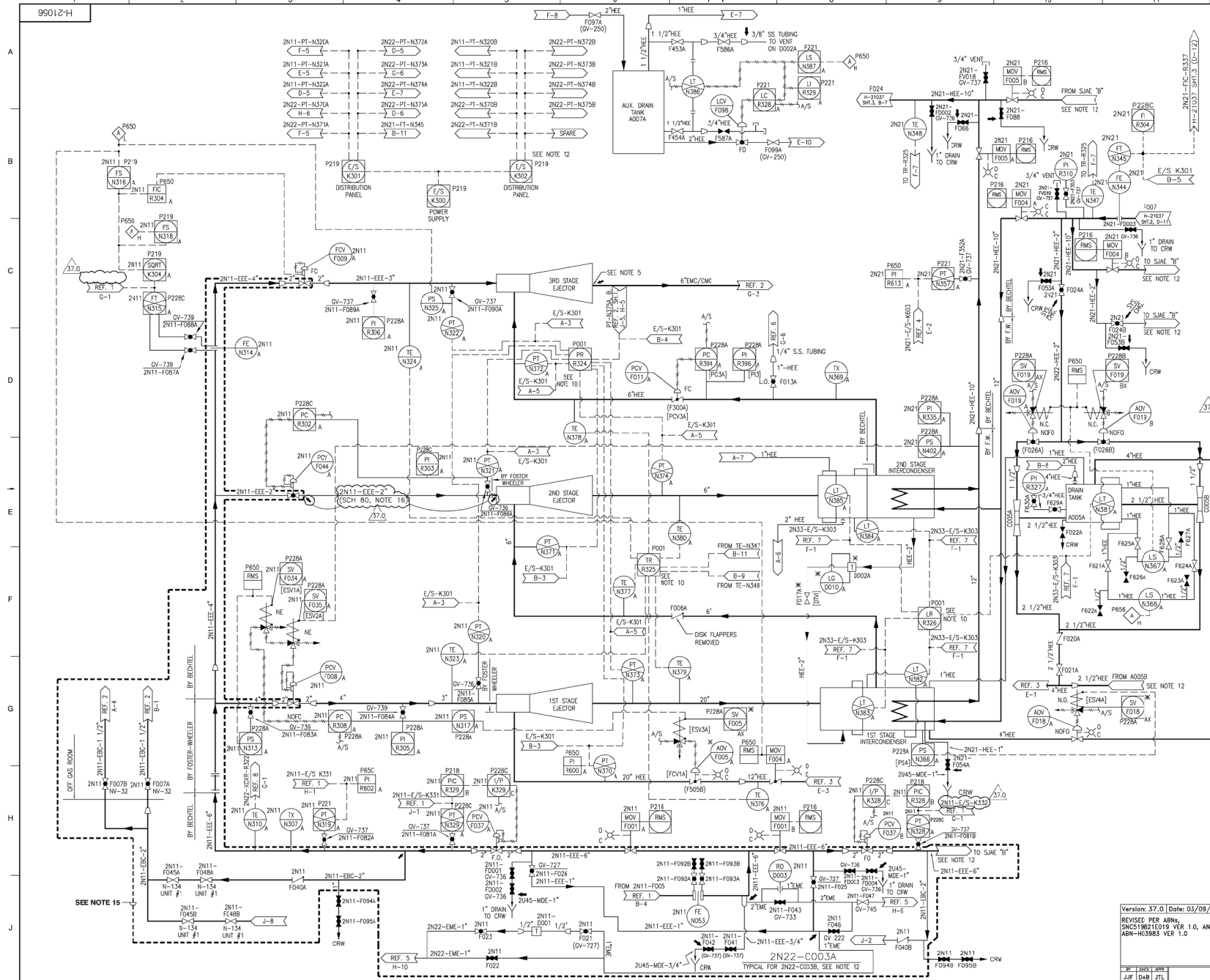


Note:
FOR NOTES AND REFERENCES SEE H-21037 SHEETS 1 AND 2.

CRITICAL DOCUMENT
MPL # 2N21-1010 (ACAD2007)H2103802

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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2 TURBINE BUILDING CONDENSATE & FEEDWATER SYSTEM P & ID SHEET 2 OF 3			
Version: 16.0 Date: 04/03/15 REVISED PER AEN SNC116367J015, VER. 1.0	TAW TRP GAB	10-502 H-21038 SHEET 2	16.0 SHEET 2 DRAWING CATEGORY: CRITICAL





NOTES

1. ALL EQUIPMENT & INSTRUMENTS PREFIXED BY MPL NO. 2N22 UNLESS OTHERWISE NOTED.
2. WHERE GV NUMBERS ARE SHOWN, THE VALVES ARE TAGGED WITH THESE NUMBERS; WHERE GV NUMBERS ARE NOT SHOWN, THE VALVES ARE TAGGED WITH MPL NUMBERS.
3. VALVE AND INSTRUMENT NUMBERS IN [] INDICATE VENDOR'S IDENTIFICATION NUMBER.
4. VALVE AND INSTRUMENT NUMBERS IN () INDICATE UNIT 1 IDENTIFICATION NUMBER.
5. STEAM JET AIR EJECTOR DISCHARGE NOZZLE FLANGE SHALL HAVE 1500# RATING.
6. ANY ADDITIONAL HIGH POINT VENTS AND LOW POINT DRAINS TO BE ACC'D BY FIELD AS REQUIRED.
7. INSTRUMENT LINE VALVING MUST COMPLY WITH PIPING STANDARD SPEC.
8. FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS SEE INSTRUMENT DATA SHEET LISTED IN MPL FOR EACH INSTRUMENT.
9. INSTRUMENT PIPING OR TUBING BEYOND THE ROOT VALVE IS TO BE IN ACCORDANCE WITH THE I.D.S. DWG A-28412.
10. R324, R325, AND R326 ARE ALL MULTI POINT RECORDERS; R324 WILL BE SWITCHED BACK AND FORTH BETWEEN THE A & B EJECTOR.
11. ALL INSTRUMENTS AND VALVES WITH SUFFIX "A" FOR SIAE "A" HAVE A CORRESPONDING SUFFIX "B" FOR SIAE "B".
12. SYSTEM "A" SHOWN, SYSTEM "B" IDENTICAL EXCEPT WHERE NOTED.
13. AN ASTERISK * INDICATES SUPPLIED BY EQUIPMENT VENDOR.
14. THE INTERNALS FOR THIS CHECK VALVE HAVE BEEN REMOVED.
15. IN SUPPORT OF MSW ALTERNATE LEAKAGE TREATMENT PATHWAY, WHICH IS CREDITED FOR AST (10CFR50.67), THE HIGHLIGHTED EQUIPMENT, PIPING, AND ASSOCIATED SUPPORTS HAVE BEEN SEISMICALLY VERIFIED TO MAINTAIN THEIR STRUCTURAL AND PRESSURE BOUNDARY INTEGRITY WHEN HATCH DBE AND 1/2 SMC EARTHQUAKE LOADS ARE APPLIED WITH DEAD LOADS. FUTURE REPAIRS OR MODIFICATIONS SHOULD BE PERFORMED IN A MANNER THAT MAINTAINS THIS SEISMIC QUALIFICATION.
16. AS FOUND CONDITIONS WITH UT TESTING OF 2" PIPE INDICATE SCH 80 PIPING IN INDICATED AREAS, RATHER THAN SCH 160 NORMALLY REQUIRED BY PIPE CLASS EEL. THIS IS FULLY ACCEPTABLE FOR THE PRESSURE AND CONDITIONS OF THE FOSTER WHEELER SKID. (REF. ABN-H03583)

REFERENCES

REFERENCE	MPL NO.	DWG. NO.
1. MAIN STEAM P&ID	2N11-1010	H-21012
2. OFFGAS SYSTEM P&ID	2N62-1010	H-26045
3. CONDENSER VACUUM & GLAND SEAL SYS. P&ID	2N22-1010	H-21030
4. CND'S. & FEEDWATER SYSTEM P&ID SH. 1	2N22-1010	H-21031
5. MAIN & RFP TURBINE DRAINS P&ID	2D11-1010	H-26011
6. PROCESS RADIATION MONITORING SYSTEM P&ID SH. 1	2N33-1010	H-21046
7. STEAM SEAL SYSTEM		
8. MSX & HTR VENTS AND SHELL DRAINS P&ID SH. 2	2N22-1010	H-21024

CRITICAL DOCUMENT

MPL NO. 2N22 ACAD2K H21056



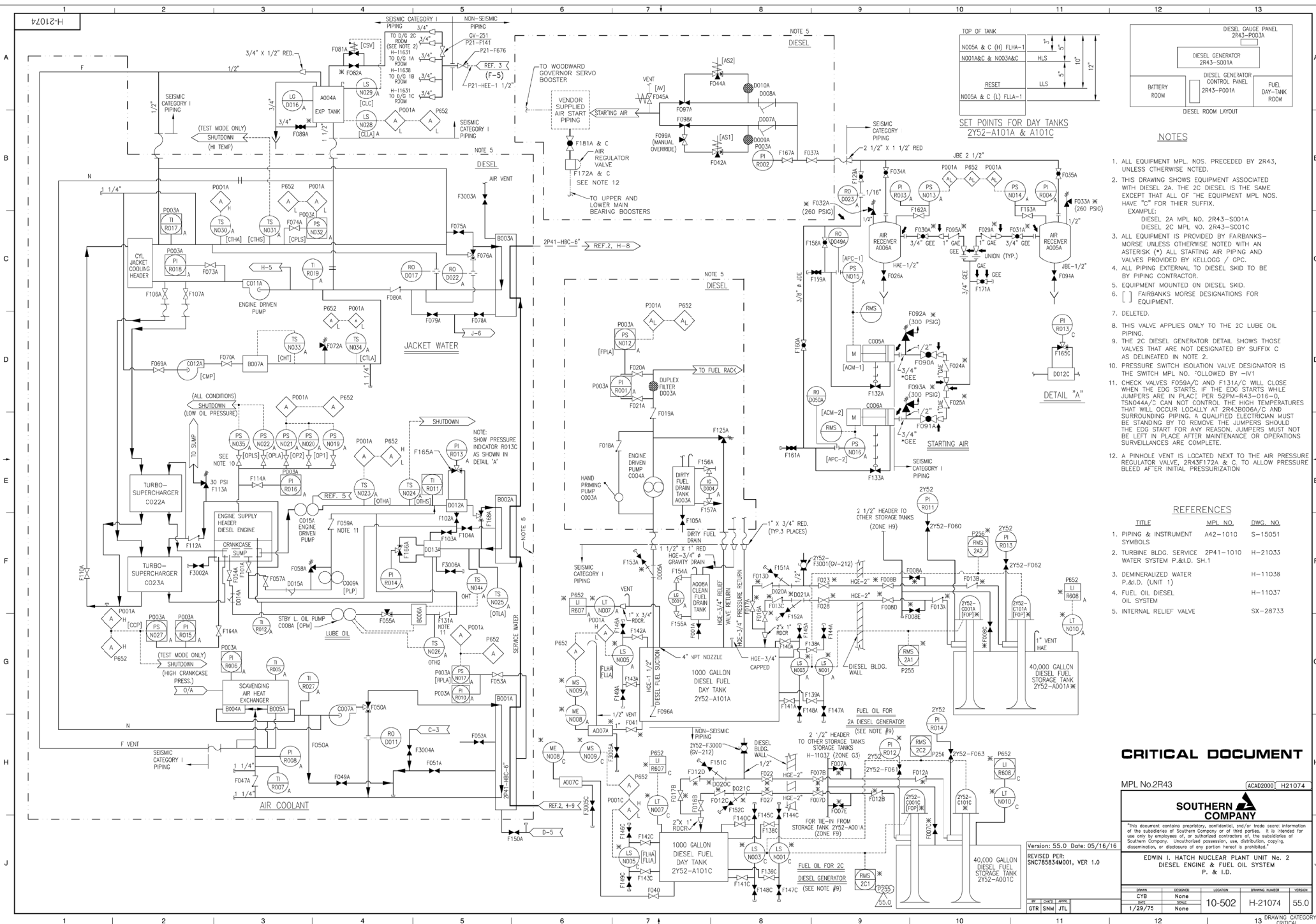
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EDWIN I. HATCH NUCLEAR PLANT Unit No.2
STEAM JET AIR EJECTOR
SYSTEM P&ID

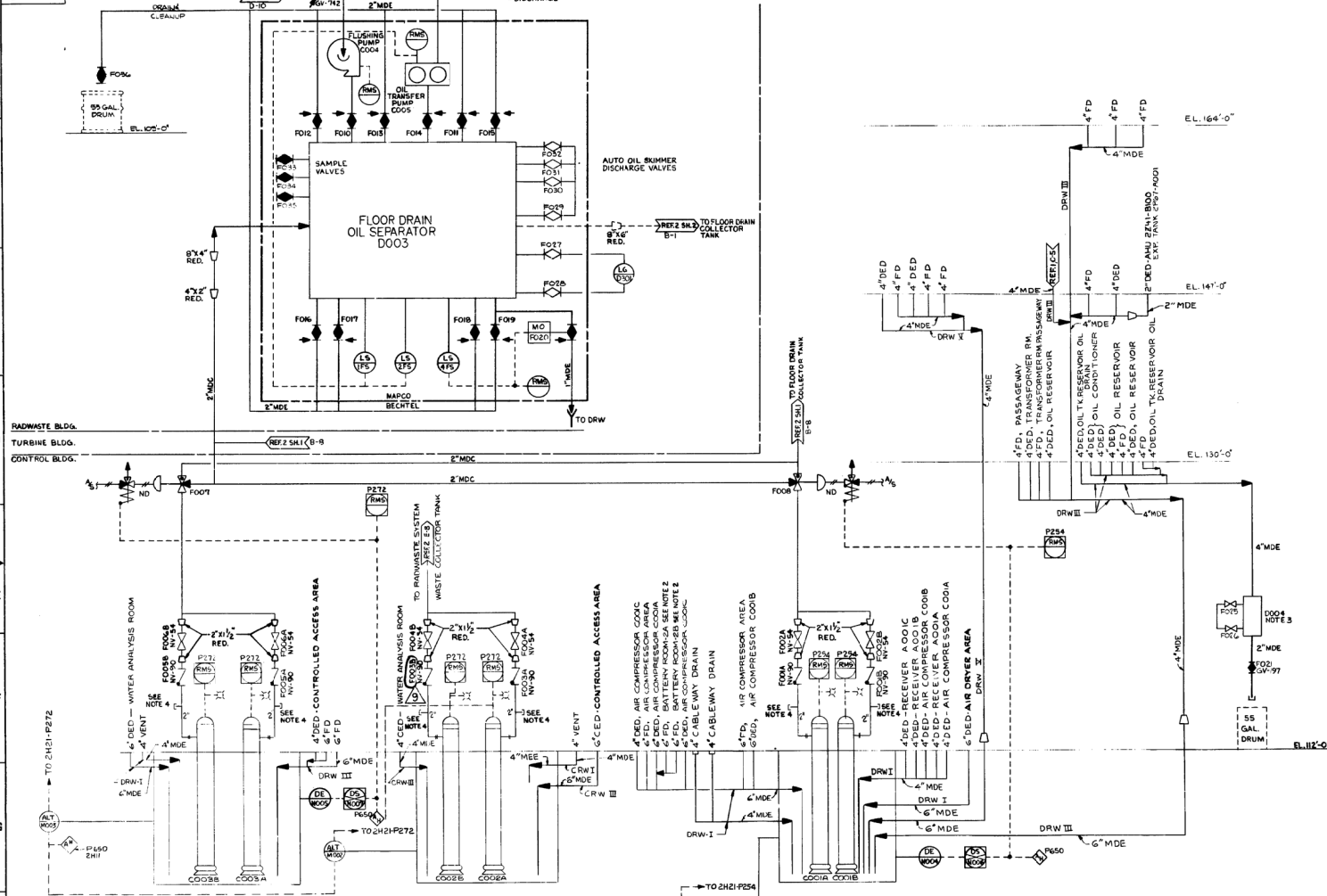
Version: 37.0 Date: 03/09/15
REVISED PER ABN: SNCS19C1019 VER 1.0, AND ABN-H03983 VER 1.0

DATE	BY	REVISION	LOCATION	DRAWING NUMBER	VERSION	
7/28/76	JLF	048	JTL	10-502	H-21056	37.0

DRAWING CATEGORY: CRITICAL



9012-H



LEGEND

DED - DIRTY EQUIPMENT DRAIN
CED - CLEAN EQUIPMENT DRAIN
FD - FLOOR DRAIN

NOTE

1. ALL EQUIPMENT NUMBERS TO BE PRECEDED BY MPL NO. 2245 UNLESS OTHERWISE NOTED.
2. BATTERY ROOM DRAINS SHALL BE FITTED WITH EXPANDABLE PLUGS WHICH SHALL BE INSTALLED IMMEDIATELY PRIOR TO AND DURING OPERATION OF THE UNIT #2 REACTOR.
3. LOCAL COLLECTION TANK D004 TO BE FIELD FABRICATED FROM 24" C.S. PIPING. TANK HEIGHT TO BE APPROX. 3 FEET. TANK TO BE EQUIPPED WITH GAGE GLASS.
4. TEST CONNECTIONS TO BE 3/4" IN SIZE.

REFERENCES

REFERENCE	MPL NO.	DWG. NO.
1. FLOOR, EQUIPMENT & ROOF DRAINS - TURBINE BLDG. - P&ID, SH-1	2245-1010	H-21041
2. RADWASTE SYSTEM P&ID	2241-1010	H-26026-H-26030
3. COND. STORAGE & TRANSFER SYS. P&ID	2241-1010	H-26044
4. DEMINERALIZED WATER SYS. P&ID	2241-1010	H-26047

CRITICAL DOCUMENT

MPL NO. 2245-1010 LVN-FOZZ

BECHTEL

GAITHERSBURG, MARYLAND

SOUTHERN SERVICES INC.

FOR

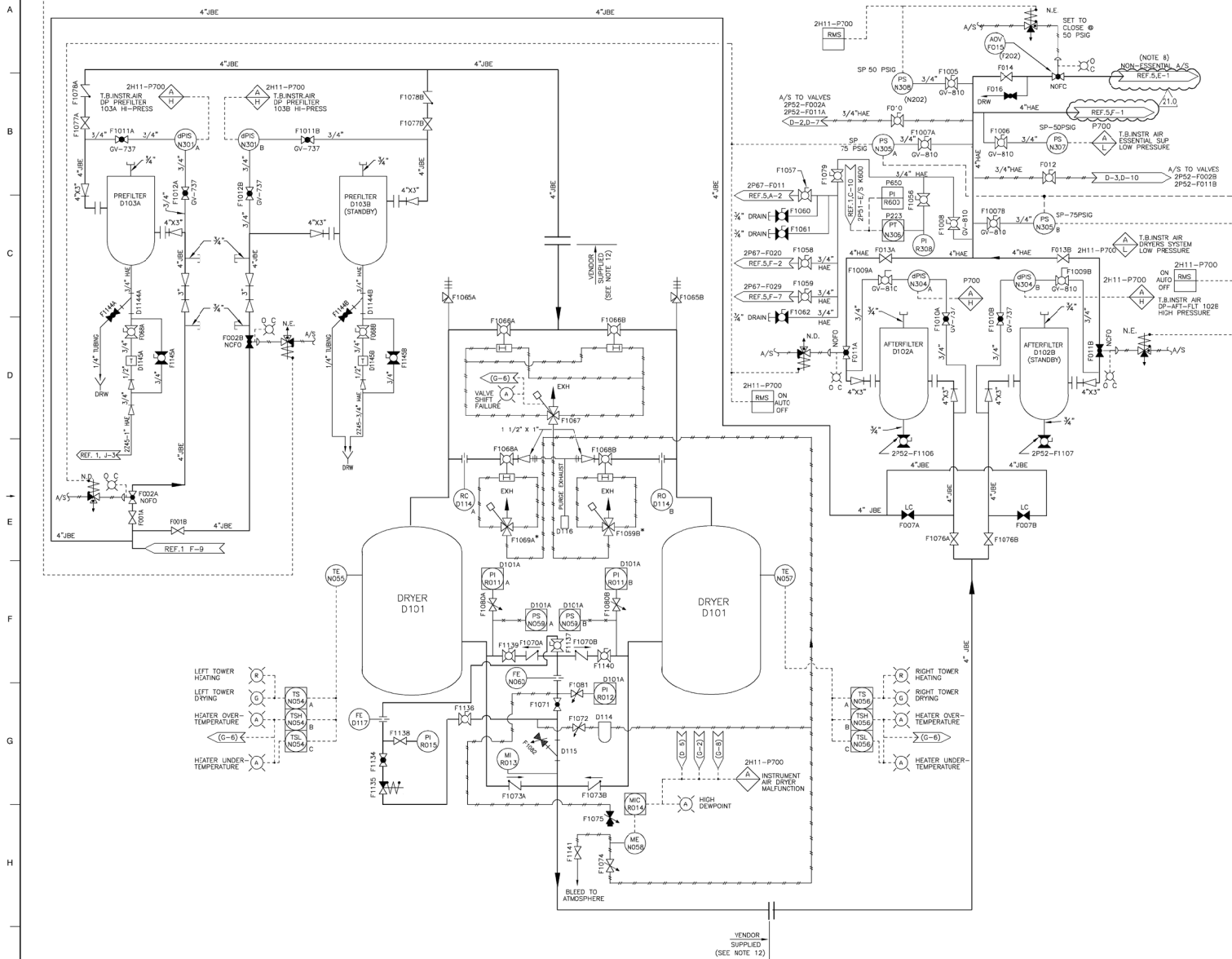
GEORGIA POWER CO., ATLANTA, GA
GENERAL ENGINEERING DEPARTMENT
EDWIN HATCH NUCLEAR PLANT UNIT #2
FLOOR AND EQUIPMENT DRAINS
CONTROL BUILDING - P&ID

REVISION 3 DATE 7-25-70
CHANGE: MPL NO. FROM FO03A TO FO03 IN RESPONSE TO AHS 90-429 (NO OCR)

REVISION 3 DATE 7-25-70
CHANGE: MPL NO. FROM FO03A TO FO03 IN RESPONSE TO AHS 90-429 (NO OCR)

NO.	DATE	BY	CHKD.	APP'D.	REVISION
1	7-25-70	LVN	FOZZ		1
2	7-25-70	LVN	FOZZ		2
3	7-25-70	LVN	FOZZ		3
4	7-25-70	LVN	FOZZ		4
5	7-25-70	LVN	FOZZ		5
6	7-25-70	LVN	FOZZ		6
7	7-25-70	LVN	FOZZ		7
8	7-25-70	LVN	FOZZ		8
9	7-25-70	LVN	FOZZ		9
10	7-25-70	LVN	FOZZ		10

NO.	DATE	BY	CHKD.	APP'D.	REVISION
1	7-25-70	LVN	FOZZ		1
2	7-25-70	LVN	FOZZ		2
3	7-25-70	LVN	FOZZ		3
4	7-25-70	LVN	FOZZ		4
5	7-25-70	LVN	FOZZ		5
6	7-25-70	LVN	FOZZ		6
7	7-25-70	LVN	FOZZ		7
8	7-25-70	LVN	FOZZ		8
9	7-25-70	LVN	FOZZ		9
10	7-25-70	LVN	FOZZ		10



NOTES:

- 1) ALL EQUIPMENT AND INSTRUMENTS PREFIXED BY MPL-NUMBERS 2P52 UNLESS OTHERWISE NOTED.
- 2) WHERE GV-NUMBERS ARE SHOWN THE VALVES ARE TAGGED WITH THESE NUMBERS; WHERE GV-NUMBERS ARE NOT SHOWN, THE VALVES ARE TAGGED WITH THE MPL-NUMBER.
- 3) LOW POINT DRAINS ARE TO BE PROVIDED WHERE NECESSARY AS DETERMINED BY PHYSICAL ROUTING OF PIPE, UNLESS SPECIFIED OTHERWISE.
- 4) FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS, SEE INSTRUMENT DATA SHEET LISTED IN MPL FOR EACH INSTRUMENT.
- 5) INSTRUMENT LINE VALVING MUST COMPLY WITH PIPING STANDARD SPEC.
- 6) INSTRUMENT PIPING OR TUBING BEYOND THE FOOT VALVE IS TO BE IN ACCORDANCE WITH THE INSTRUMENT INSTALLATION DETAILS DWG. A-26412
- 7) VALVE NUMBERS IN () INDICATE VALVE NUMBER OF CORRESPONDING VALVE ON UNIT #1.
- 8) NON-ESSENTIAL AIR-SUPPLY IS NOT REQUIRED FOR EMERGENCY PLANT OPERATION. ESSENTIAL AIR-SUPPLY IS REQUIRED FOR EMERGENCY AND NORMAL PLANT OPERATION.
- 9) ALL VENDOR SUPPLIED DRYER VALVES ARE SHOWN OPEN. DRYER OPERATIONS ARE CONTROLLED INTERNALLY.
- 10) AT OPERATIONS DISCRETION, DISCONTANT AIR DRYER 2P52-D101 MAY BE INCLUDED IN THE NORMAL SYSTEM LINEUP OR BYPASSED AND OPERATED IN STANDBY, AS DETERMINED BY COMPRESSED AIR DEWPOINT INDICATION.

LEGEND:

SP - SET POINT
CR - CONTROL ROOM
N.E. - NORMALLY ENERGIZED
N.D. - NORMALLY DEENERGIZED

REFERENCES:

NO.	TITLE	MPL-NO.	DWG. NO.
1)	CONTROL BLDG. SERVICE AIR SYS. P&ID	2P51-1010	H-21029 SH.1
2)	TURBINE BLDG. INSTR. AIR SYS P&ID SH.2	2P52-1010	H-21082
3)	TURBINE BLDG. INSTR. AIR SYS P&ID SH. 3	2P52-1010	H-21085
4)	TURBINE BLDG. INSTR. AIR SYS P&ID SH.4	2P52-1010	H-21088
5)	TURBINE BLDG. INSTR. AIR SYS P&ID SH.5	2P52-1010	H-21078
6)	CTRL. BLDG. CHILLED WATER COOLING UNITS P&ID	2Z41-1010	H-51179
7)	CTRL. BLDG. SERVICE AIR SYS. P&ID	2P51-1010	H-21029 SH.2

CRITICAL DOCUMENT

MPL No. 2P52-1010 ACAD2000 H21077

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EDWIN I. HATCH NUCLEAR PLANT UNIT No.2
TURBINE BUILDING
INSTRUMENT AIR SYSTEM P&ID
SHEET NO. 1

Version: 21.0 Date: 10/23/15
REVISED PER
SNK71865M001 VER 1.0

BY: JLF
DATE: 11-14-72

CLY: JLF
DATE: 11-14-72

10-502 H-21077 21.0

DWG. CATEGORY: CRITICAL

