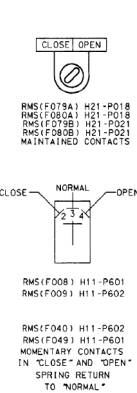
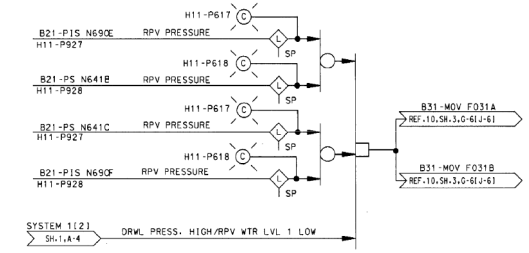


SWITCH DEVELOPMENTS



RHR SUCTION COOLING OUTBOARD ISOLATION GATE VALVE E11-MOV F008 TYPICAL FOR:
SEE TABLE 1



ISOLATION VALVE LOGIC SYSTEM 1 FOR B31-F031A,B
TYPICAL FOR: [SYSTEM 2]

TABLE 1

DESCRIPTION	E11-MOV	RMS	RMS LOCATION	PANEL INDICATION	REF.	SH.	COORD.	PCIS VALVE GROUP
RHR SUCTION COOLING OUTBOARD ISOLATION GATE VALVE	F008	F008	H11-P601	H11-P601	9	5	H-3	6
RHR SUCTION COOLING INBOARD ISOLATION GATE VALVE	F009	F009	H11-P602	H11-P602	9	5	F-3	6

RHR DISCH. TO RADWASTE ISOLATION GLOBE VALVE
E11-MOV F040: SEE TABLE 2

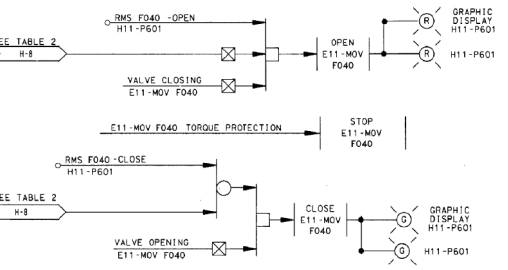


TABLE 2

DESCRIPTION	E11-MOV	RMS	RMS LOCATION	PANEL INDICATION	REF.	SH.	COORD.	PCIS VALVE GROUP	INPUT DESCRIPTION
RHR DISCH. TO RADWASTE ISOLATION GLOBE VALVE	F040	F040	H11-P602	H11-P601	9	4	D-4		NS4 ISOL VALVE LOGIC DIV. 2 DRYWELL PRESS. HIGH/RPV WTR LVL 3 LOW

FOR NOTES, SEE DWG. H-19937, H-19939 FOR REFERENCES, SEE DWG. H-19938

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. T256308A, SH-11, REV. 4; SH-2, REV. 4; AND SH-3, REV. 4. SC1 ACCESSION NO. S-15326, S-15327, AND S-15328 RESPECTIVELY.

MPL NO. E11-1030

MPL No. E11-1030 (ACAD001) H19942

SOUTHERN COMPANY

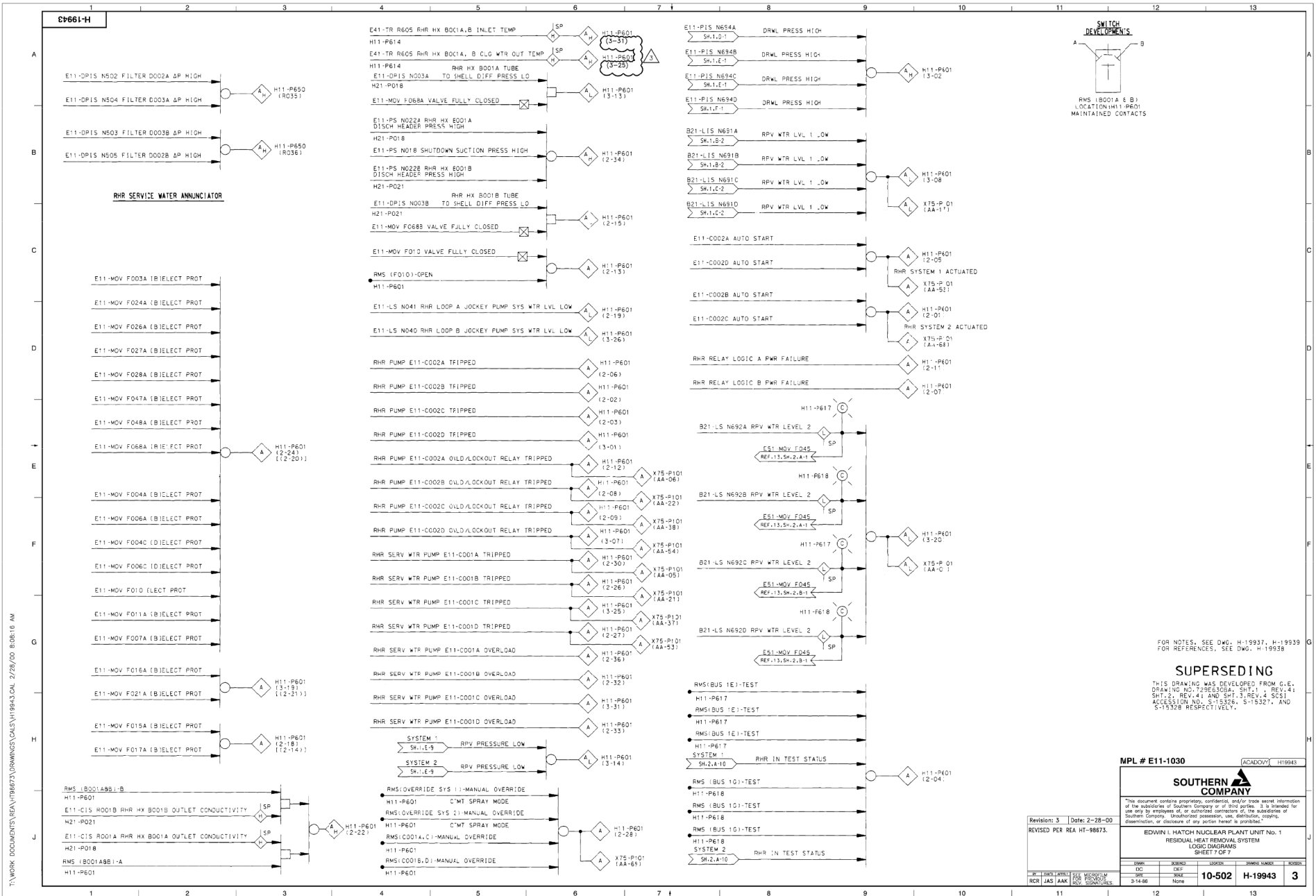
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EDWIN I. HATCH NUCLEAR PLANT UNIT No.1
RESIDUAL HEAT REMOVAL SYSTEM
LOGIC DIAGRAMS
SHEET 6 of 7

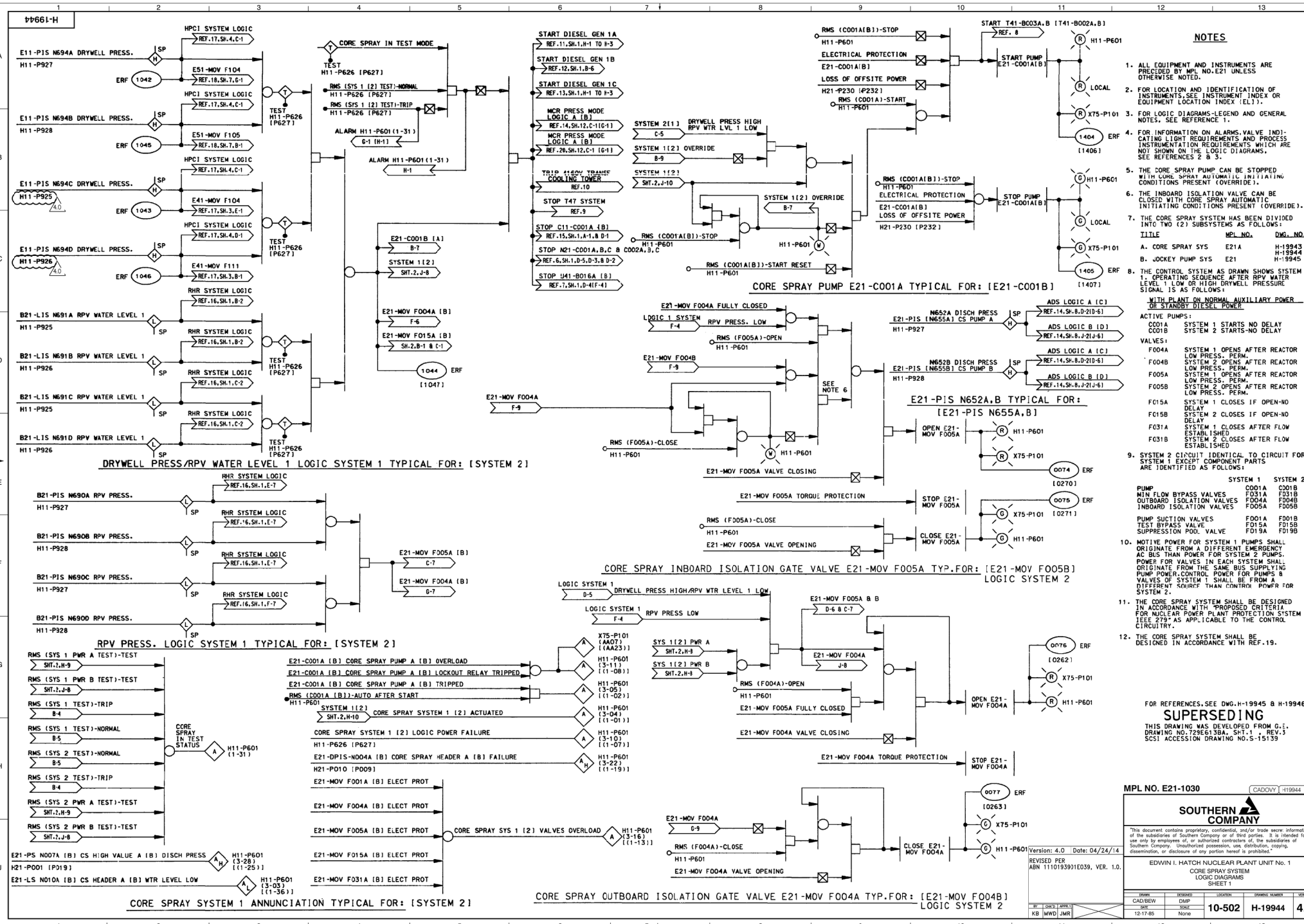
Revisions: 6 Date: 1-14-88
REVISED PER ABN 97-0302.

NO.	DATE	BY	CHKD.	REV.	DESCRIPTION
6	1-14-88	BT	RLP	PKR	REV. 6/10/88

DATE	ISSUED	LOCATION	ISSUED TO	REVISION
3-14-88	No Scale		10-502	H-19942



T:\WORK\DOCUMENTS\REA\H19943\DRAWINGS\CALS\H19943.DWG 2/28/00 8:06:16 AM



NOTES

- ALL EQUIPMENT AND INSTRUMENTS ARE PRECEDED BY MFL NO. E21 UNLESS OTHERWISE NOTED.
- FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS, SEE INSTRUMENT INDEX OR EQUIPMENT LOCATION INDEX (ELI).
- FOR LOGIC DIAGRAMS-LEGEND AND GENERAL NOTES, SEE REFERENCE 1.
- FOR INFORMATION ON ALARMS, VALVE INDICATING LIGHT REQUIREMENTS AND PROCESS INSTRUMENTATION REQUIREMENTS WHICH ARE NOT SHOWN ON THE LOGIC DIAGRAMS, SEE REFERENCES 2 & 3.
- THE CORE SPRAY PUMP CAN BE STOPPED WITH CORE SPRAY AUTOMATIC INITIATING CONDITIONS PRESENT (OVERRIDE).
- THE INBOARD ISOLATION VALVE CAN BE CLOSED WITH CORE SPRAY AUTOMATIC INITIATING CONDITIONS PRESENT (OVERRIDE).
- THE CORE SPRAY SYSTEM HAS BEEN DIVIDED INTO TWO (2) SUBSYSTEMS AS FOLLOWS:

TITLE	MFL NO.	DWG. NO.
A. CORE SPRAY SYS	E21A	H-19943
B. JOCKEY PUMP SYS	E21B	H-19944
		H-19945
- THE CONTROL SYSTEM AS DRAWN SHOWS SYSTEM 1 OPERATING SEQUENCE AFTER RPV WATER LEVEL 1 LOW OR HIGH DRYWELL PRESSURE SIGNALS AS FOLLOWS:

WITH PLANT ON NORMAL AUXILIARY POWER OR STANDBY DIESEL POWER

ACTIVE PUMPS:
 SYSTEM 1 STARTS NO DELAY
 CORE SPRAY SYSTEM 2 STARTS NO DELAY

VALVES:
 SYSTEM 1 OPENS AFTER REACTOR LOW PRESS. PERM.
 SYSTEM 2 OPENS AFTER REACTOR LOW PRESS. PERM.
 SYSTEM 1 OPENS AFTER REACTOR LOW PRESS. PERM.
 SYSTEM 2 OPENS AFTER REACTOR LOW PRESS. PERM.
 SYSTEM 1 CLOSSES IF OPEN-NO DELAY
 SYSTEM 2 CLOSSES IF OPEN-NO DELAY
 SYSTEM 1 CLOSSES AFTER FLOW ESTABLISHED
 SYSTEM 2 CLOSSES AFTER FLOW ESTABLISHED
- SYSTEM 2 CIRCUIT IDENTICAL TO CIRCUIT FOR SYSTEM 1 EXCEPT COMPONENT PARTS ARE IDENTIFIED AS FOLLOWS:

SYSTEM 1	SYSTEM 2
PUMP C001A	C001B
MIN FLOW BYPASS VALVES F031A	F031B
OUTBOARD ISOLATION VALVES F004A	F004B
INBOARD ISOLATION VALVES F005A	F005B
PUMP SUCTION VALVES F004A	F001B
TEST BYPASS VALVE F015A	F015B
SUPPRESSION POOL VALVE F019A	F019B
- MOTIVE POWER FOR SYSTEM 1 PUMPS SHALL ORIGINATE FROM A DIFFERENT EMERGENCY AC BUS THAN POWER FOR SYSTEM 2 PUMPS. POWER FOR VALVES IN EACH SYSTEM SHALL ORIGINATE FROM THE SAME BUS SUPPLYING PUMP POWER CONTROL POWER FOR PUMPS B VALVES OF SYSTEM 1 SHALL BE FROM A DIFFERENT SOURCE THAN CONTROL POWER FOR SYSTEM 2.
- THE CORE SPRAY SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH PROPOSED CRITERIA FOR NUCLEAR POWER PLANT PROTECTION SYSTEM IEEE 2793 AS APPLICABLE TO THE CONTROL CIRCUITRY.
- THE CORE SPRAY SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH REF. 19.

FOR REFERENCES, SEE DWG. H-19945 & H-19946

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G-5, DRAWING NO. (235) 58A, SH. 1, REV. 3
 SCS1 ACCESSION DRAWING NO. 5-15139

MPL NO. E21-1030

CADDOY 119944

SOUTHERN COMPANY

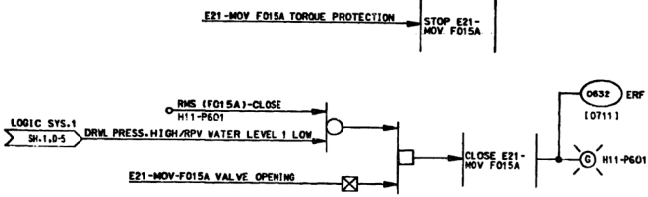
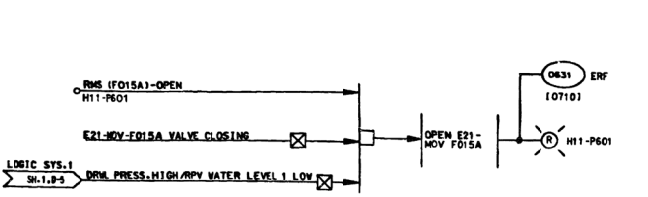
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EDWIN I. HATCH NUCLEAR PLANT UNIT NO. 1
 CORE SPRAY SYSTEM
 LOGIC DIAGRAMS
 SHEET 1

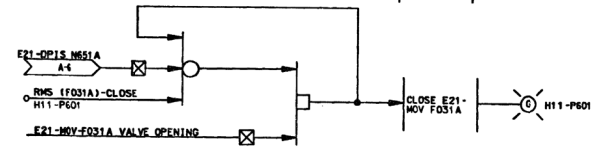
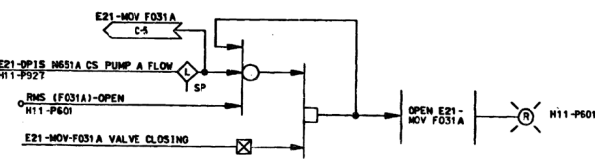
DATE	BY	CHK'D	APP'D	LOGIC	DESIGN	ISSUE
12-17-85	None	None	None	None	None	None

Version: 4.0 Date: 04/24/14
 REVISED PER ABN 111019391E039, VER. 1.0

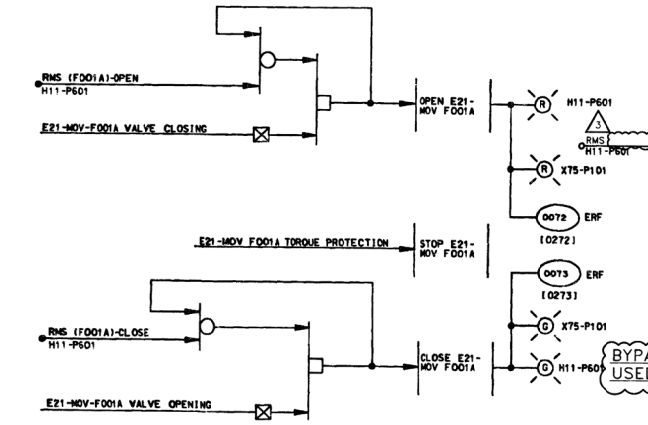
NO.	DATE	BY	CHK'D	APP'D	LOGIC	DESIGN	ISSUE
10-502	H-19944	4.0					



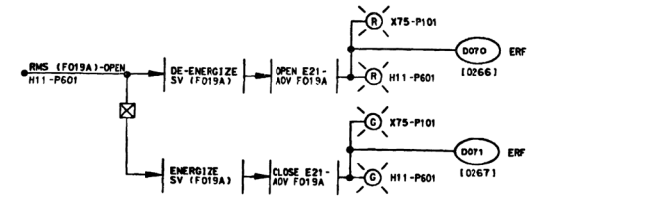
CORE SPRAY TEST BYPASS GLOBE VALVE E21-MOV F015A TYP. FOR: [E21-MOV F015B] LOGIC SYSTEM 2



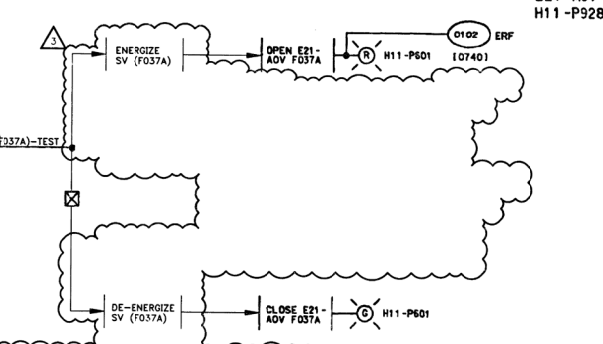
CORE SPRAY PUMP MINIMUM FLOW BYPASS GATE VALVE E21-MOV F031A TYP. FOR: [E21-MOV F031B] H11-P928



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

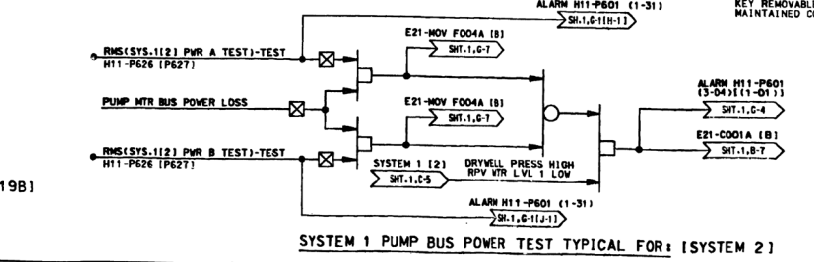


CORE SPRAY SUPPRESSION POOL VALVE E21-AOV F019A TYPICAL FOR: [E21-AOV F019B]



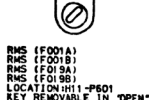
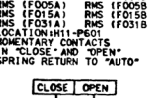
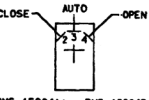
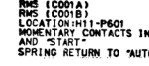
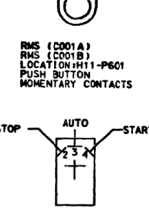
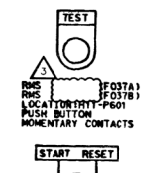
BYPASS VALVE E21-AOV-F037A & B USED FOR LEAK TESTING CHECK VALVES: [E21-F006A & B]

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



SYSTEM 1 PUMP BUS POWER TEST TYPICAL FOR: [SYSTEM 2]

SWITCH DEVELOPMENTS



REFERENCES

TITLE	MPL NO.	DWG. NO.
1. LOGIC DIAGRAMS-LEGEND AND GENERAL NOTES	A21-1030	H-19900
2. CORE SPRAY SYSTEM P810	E21-1010	H-16331
3. JOCKEY PUMP SYSTEM P810 AND PROCESS FLOW DIAGRAM	E21-1050	H-16328
4. NUCLEAR BOILER SYSTEM P810 SHEET 1	B21-1010	H-16062
5. NUCLEAR BOILER SYSTEM P810 SHEET 2	B21-1010	H-16063
6. NUCLEAR BOILER SYSTEM P810 SHEET 3	B21-1010	H-16145
7. RHR SYSTEM P810 SHEET 1	E11-1010	H-16329
8. RHR SYSTEM P810 SHEET 2	E11-1010	H-16330
9. CONDENSATE & F.W. SYS P810 SHEETS 1-4	N21-1010	H-11019 H-11605 H-11605
10. TURBINE BUILDING CHILLED WATER SYSTEM P810 SHEET 1	P63-1010	H-16326
11. TURBINE BUILDING CHILLED WATER SYSTEM P810 SHEET 2	P63-1010	H-16327
12. SAFEGUARD EQUIPMENT COOLING SYSTEM P810	T41-1030	H-16023
13. PRIMARY CONTAINMENT COOLING SYSTEM P810 & PFD	T47-1010	H-16007
14. ELEMENTARY DIAGRAM-600V STATION SERVICE SUPPLY AC'S	R25	H-13385
15. ELEMENTARY DIAGRAM-DIESEL GENERATOR 1A	R43	H-13412
16. ELEMENTARY DIAGRAM-DIESEL GENERATOR 1B	R43	H-13413
17. ELEMENTARY DIAGRAM-DIESEL GENERATOR 1C	R43	H-13414
18. NUCLEAR BOILER SYSTEM LOGIC DIAGRAMS SHEETS 1-12	B21-1030	H-19801 THRU H-19812
19. CONTROL ROD DRIVE HYDRAULIC SYSTEM LOGIC DIAGRAMS SHEETS 1-9	C11-1030	H-19818 THRU H-19925
20. RESIDUAL HEAT REMOVAL SYSTEM LOGIC DIAGRAMS SHEETS 1-7	E11-1030	H-19937 THRU H-19943
21. HIGH PRESSURE COOLANT INJECTION SYSTEM LOGIC DIAGRAMS SHEETS 1-8	E41-1030	H-19947 THRU H-19954
22. REACTOR CORE ISOLATION COOLING SYSTEM LOGIC DIAGRAMS SHEETS 1-8	E51-1030	H-19955 THRU H-19962
23. GE 22A2988 ELECTRICAL EQUIPMENT SEPARATION FOR SAFEGUARD SYSTEMS	A70	5-17108
24. NUCLEAR BOILER SYSTEM LOGIC DIAGRAMS SHEETS 1-12	2821-1030	H-24701 THRU H-24712

FOR NOTES, SEE DWG. H-19944.

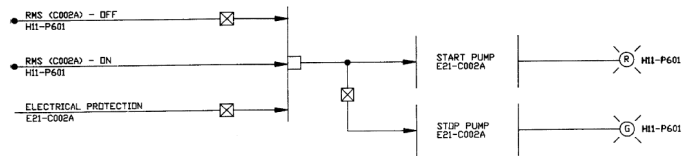
SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 729E8138A, SH.1-1, REV.3 SCS1 ACCESSION DRAWING NO. S-15139

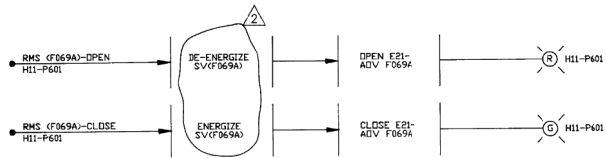
MPL NO. E21-1030		ACADWY	H19846
Southern Company Services, Inc. for Georgia Power Company, Atlanta, GA General Engineering Department			
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EDWIN I. HATCH NUCLEAR PLANT UNIT NO. 1 CORE SPRAY SYSTEM LOGIC DIAGRAMS SHEET 2 OF 3			
DATE	DESIGN	ISSUED	REVISED
12-18-78	DMP	None	10-502
H-19945		3	

Revision: 3 Date: 7/9/80
SCANNED, VERIFIED BY LCE
REMOVED PER AEM 86-0021-002
AND AEM 86-0021-003

9*661-H



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

SWITCH DEVELOPMENTS



RMS (C002A)
RMS (C002B)
LOCATION: H11-P641
MAINTAINED CONTACTS



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

REFERENCES

- CONT. FROM H-19945
- 21. EDF MULTIPLEXER SYSTEM I.E.D. X75-1000 H-16401
 - 22. ANNUNCIATOR SIGNALS TO TIC I.E.D. X75-1000 H-16402
 - 23. DIGITAL INPUT SIGNALS TO THE EDF COMPUTER SYSTEM I.E.D. X75-1000 H-16405
- H-16406
SHEET 4
H-16407
SHEET 5
H-16415

FOR NOTES, SEE DWG. H-19944.

MPL. NO. E21-1030

BECHTEL JOB 651: GAITHERSBURG, MARYLAND		SOUTHERN SERVICES INC. FOR	
		GEORGIA POWER CO., ATLANTA, GA. GENERAL ENGINEERING DEPARTMENT	
EDWIN HATCH NUCLEAR PLANT UNIT NO.1 CORE SPRAY SYSTEM LOGIC DIAGRAMS SHEET 3 OF 3		GASKINT 3-12-86	DATE 10-03-86
REV. 2 DATE: 8-31-90 REVISED IN RESPONSE TO WCN 89-279-03.	SCALE 10-502	SHEET NO. 10-502	DATE H-19946

SWITCH DEVELOPMENTS

NOTES

CLOSE STOP OPEN



RMS(F002) RMS(F003) KEYLOCK MAINTAINED CONTACTS KEY REMOVABLE IN "OPEN"

RESET NORMAL



RMS(INBOARD ISOLATION SIGNAL RESET) RMS(OUTBOARD ISOLATION SIGNAL RESET) LOCATION: H11-P601 KEYLOCK MAINTAINED CONTACTS KEY REMOVABLE IN "NORMAL"

ISOLATE



RMS(HPCI LEAK DET. SYSTEM A TIMER BYPASS) RMS(HPCI LEAK DET. SYSTEM B TIMER BYPASS) LOCATION: H11-P614 PUSHBUTTON MOMENTARY CONTACTS

NORMAL TEST



1. ALL EQUIPMENT AND INSTRUMENTS ARE PRECEDED BY MPL NO. E41 UNLESS OTHERWISE NOTED.
2. FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS, SEE INSTRUMENT INDEX OR EQUIPMENT LOCATION INDEX (E41-1).
3. FOR LOGIC DIAGRAMS-LEGEND AND GENERAL NOTES, SEE REFERENCE 1.
4. FOR INFORMATION ON ALARMS, VALVE INDICATING LIGHT REQUIREMENTS AND PROCESS INSTRUMENTATION REQUIREMENTS WHICH ARE NOT SHOWN ON THE LOGIC DIAGRAMS, SEE REFERENCE 2.
5. THE HPCI SYS IS ARRANGED FOR TEST OF PUMP AT FULL FLOW & ALL VALVES FOR OPEN AND CLOSE CAPACITY AT ANY TIME EXCEPT WHEN INITIATION SIGNAL OR AUTO ISOLATION SIGNAL IS ACTIVATED. IN THE EVENT THE INITIATION SIGNAL OCCURS WHILE TEST IS UNDERWAY THE SYS. AUTOMATICALLY RETURNS TO START-UP MODE.
6. DELETED
7. ISOLATION SIGNAL SWITCHES SHALL BE OF THE TYPE THAT CLOSE CONTACTS FOR THE SPECIFIED ISOLATION EVENT. WHERE AUX. RELAYS ARE USED IN THE ISOLATION CHANNELS, THEY SHALL BE POWERED FROM THE STATION BATTERIES.
8. DELETED
9. THE HPCI SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH REFERENCE 8 AND WITH PROPOSED CRITERIA FOR NUCLEAR POWER PLANT PROTECTION SYSTEMS IEEE-279-AS APPLICABLE TO THE CONTROL CIRCUITRY.

REFERENCES

TITLE	MPL NO.	DWG. NO.
1. LOGIC DIAGRAMS-LEGEND AND GENERAL NOTES	A21-103C	H-19900
2. HPCI SYSTEM P&ID SHEET 2	E41-101C	H-16332 H-16333
3. NUCLEAR POWER SYSTEM P&ID SHEET 1	B21-101C	H-16062 H-16063 H-16145
4. RHIR SYSTEM P&ID SHEET 2	E11-101C	H-16329 H-16330
5. RCIC SYSTEM P&ID SHEET 2	E51-101C	H-16334 H-16335
6. SAFEGUARD EQUIP. COOLING SYSTEM P&ID	T41-103C	H-16023
7. CORE SPRAY SYSTEM LOGIC DIAGRAMS SHEET 3	E21-103C	H-19944 H-19945 H-19946

(CONT. ON H-19949)

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM C.E. DRAWING NO. 72962784, SHT. 1, REV. 7, SHT. 2, REV. 7, AND SHT. 3, REV. 7. SCS ACCESSION DRAWING NO. S-16193, S-16194, AND S-17137 RESPECTIVELY.

MPL No. E41-1030 (0VY2007) H19947

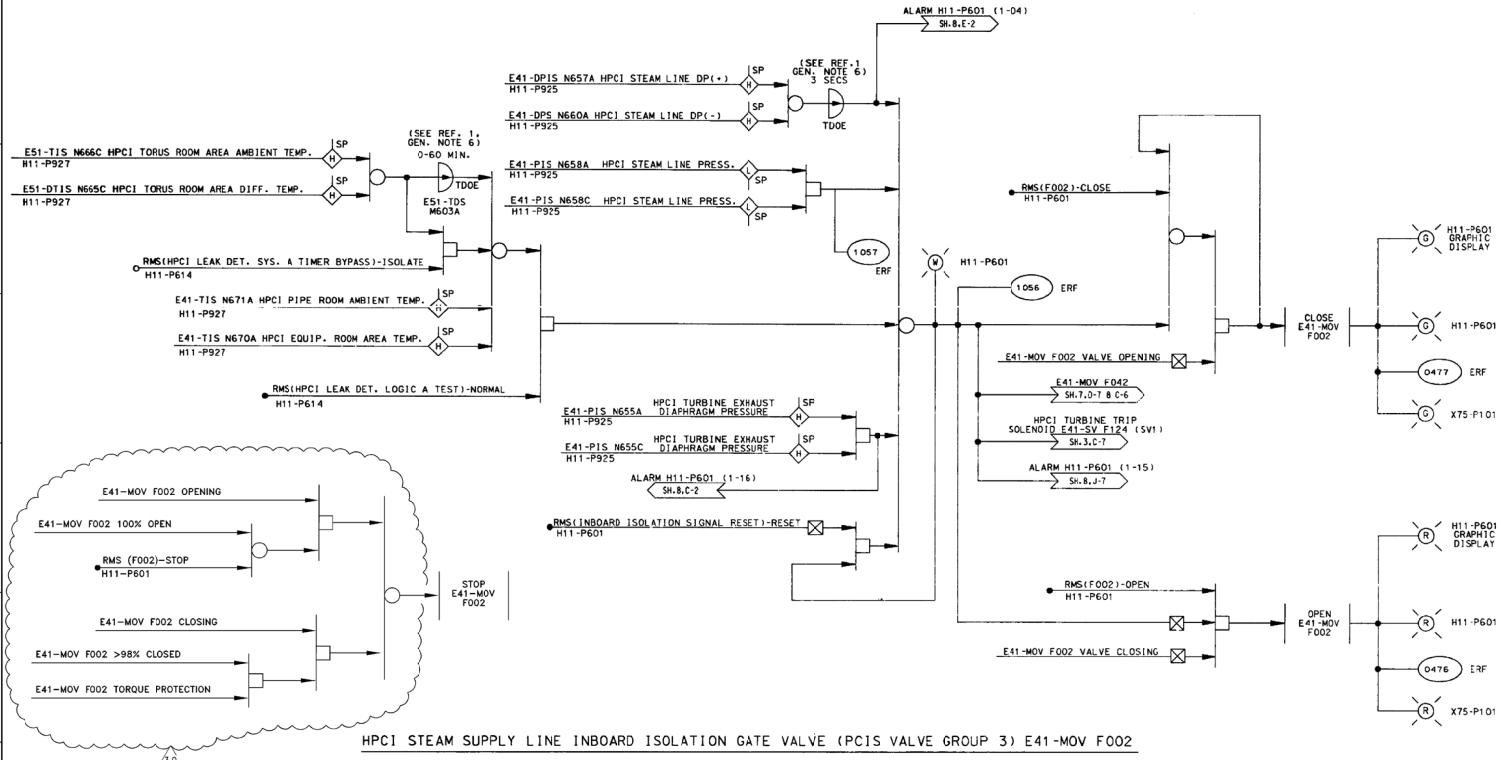


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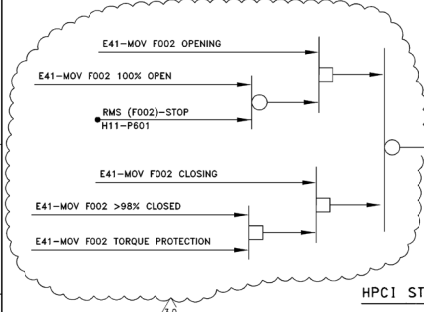
Version: 3.0 Date: 5/7/12
REVISED PER ABRN 105077001.002, VER. 1.0

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

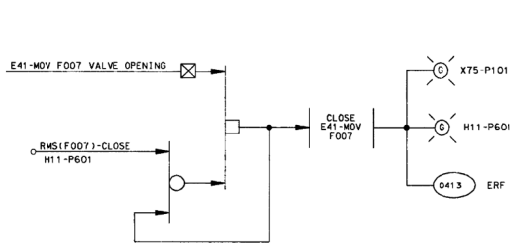
NO.	DATE	BY	CHKD.	LOCATED	ISSUED	REVISION
1	12-16-85	JLD	MWD	JMR	None	

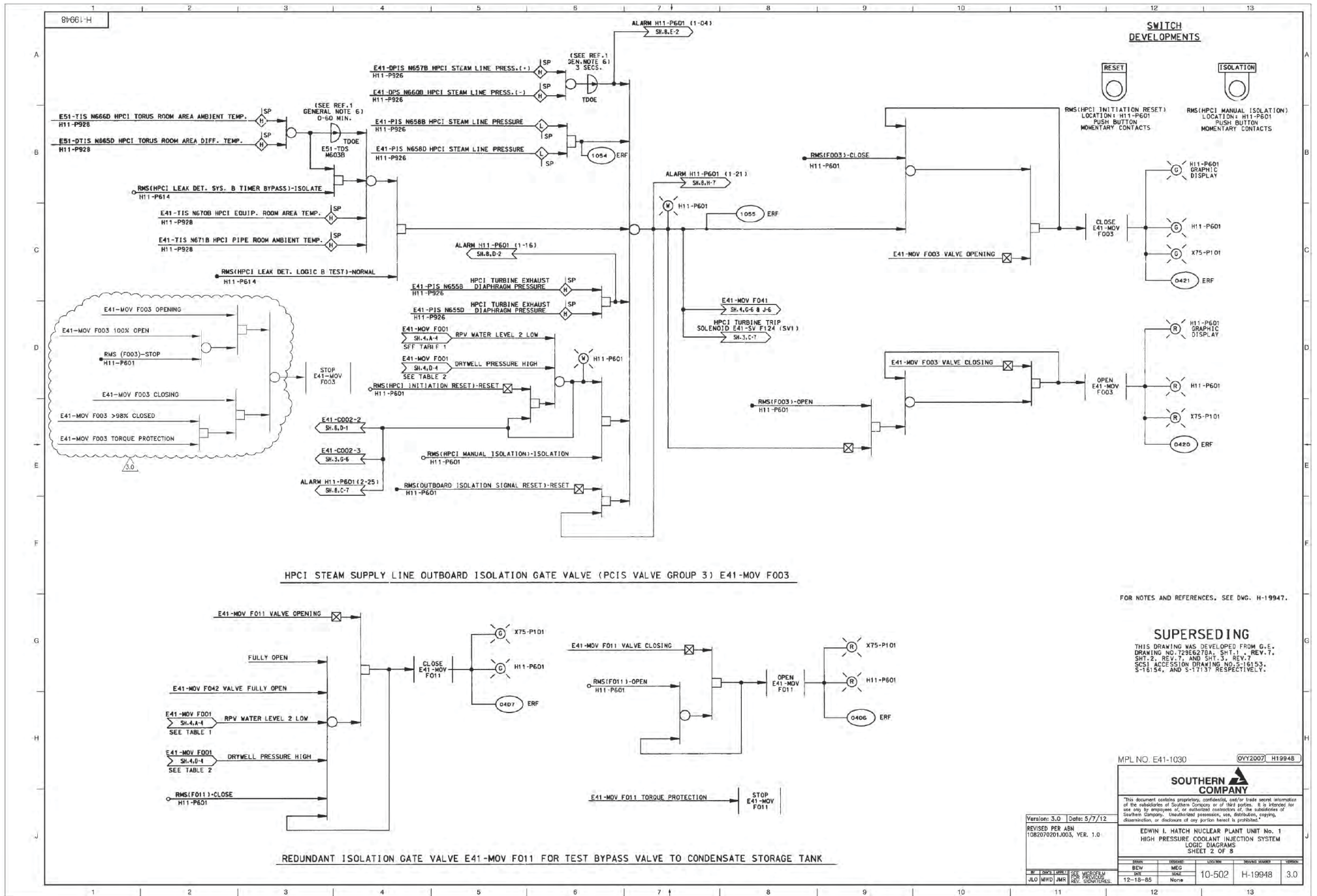


HPCI STEAM SUPPLY LINE INBOARD ISOLATION GATE VALVE (PCIS VALVE GROUP 3) E41-MOV F002



HPCI PUMP DISCHARGE ISOLATION GATE VALVE E41-MOV F007





HPCI STEAM SUPPLY LINE OUTBOARD ISOLATION GATE VALVE (PCIS VALVE GROUP 3) E41-MOV F003

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

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. T2956278A, SHT. 1, REV. 7, SHT. 2, REV. 7, AND SHT. 3, REV. 7. SC51 ACCESSION DRAWING NO. S-16153, S-16154, AND S-17137 RESPECTIVELY.

MPL NO. E41-1030 OY22007 H1994B



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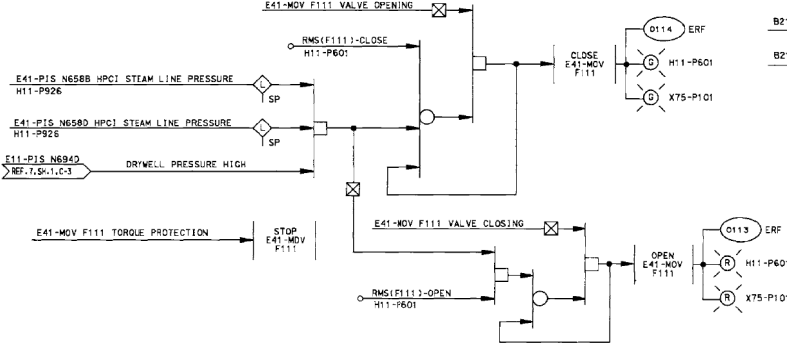
EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
HIGH PRESSURE COOLANT INJECTION SYSTEM
LOGIC DIAGRAMS
SHEET 2 OF 8

Version: 3.0 Date: 5/7/12
REVISED PER ABN 128207002, VER. 1.0

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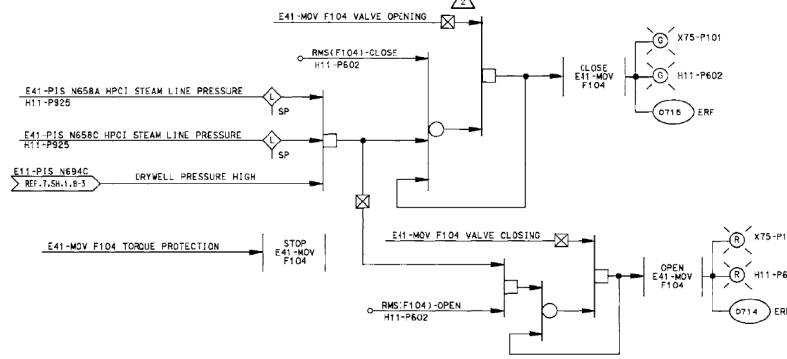
REV	DATE	BY	CHKD	APP'D	REASON
1	10-502	H-19948	3.0		

6V661-H



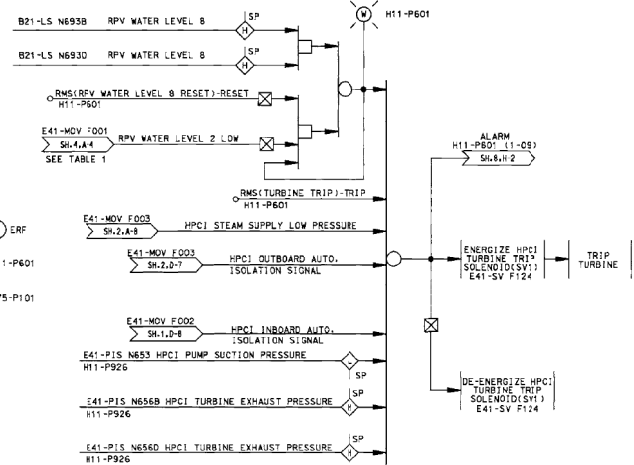
TURBINE EXHAUST VACUUM BREAKER OUTBOARD GATE VALVE E41-MOV F111

PCIS VALVE GROUP 8

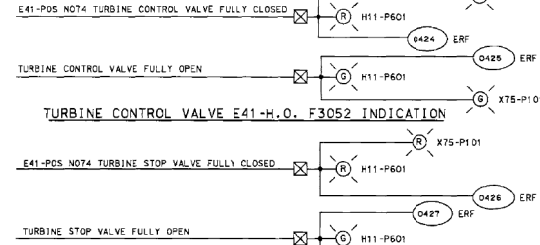


TURBINE EXHAUST VACUUM BREAKER INBOARD GATE VALVE E41-MOV F104

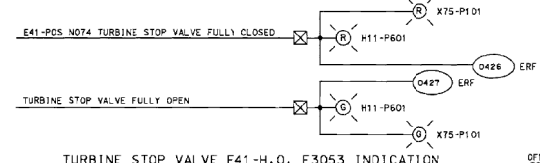
PCIS VALVE GROUP 8



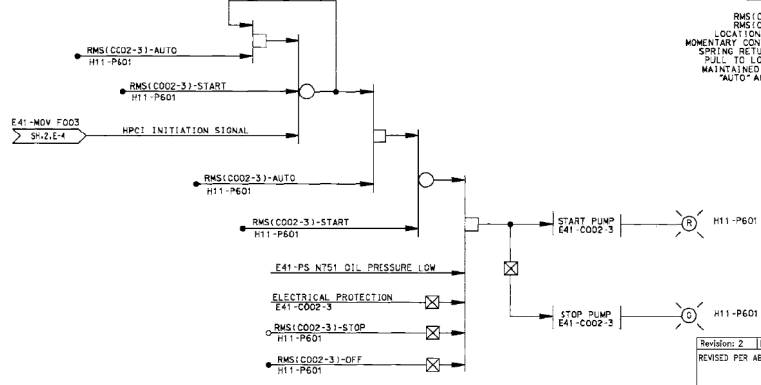
HPCI TURBINE TRIP SOLENOID E41-SV F124 (SV1)



TURBINE CONTROL VALVE E41-H.O. F3052 INDICATION

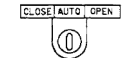


TURBINE STOP VALVE E41-H.O. F3053 INDICATION



HPCI AUXILIARY OIL PUMP E41-CO02-3

SWITCH DEVELOPMENTS



RMS(F104)
LOCATION: H11-P602
RMS(F111)
LOCATION: H11-P601
MOMENTARY CONTACTS
SPRING RETURN
TO AUTO



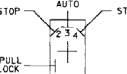
RMS(RPV WATER LEVEL 8 RESET)
LOCATION: H11-P601
PUSH BUTTON
MOMENTARY CONTACTS



RMS(TURBINE TRIP)
LOCATION: H11-P601
PUSH BUTTON
MOMENTARY CONTACTS



RMS(POWER TEST)
LOCATION: H11-P601
MAINTAINED CONTACTS



RMS(CO02-3)
LOCATION: H11-P601
MOMENTARY CONTACTS IN "STOP"
SPRING RETURN TO "AUTO"
PULL TO LOCK IN "OFF"
MAINTAINED CONTACTS IN
"AUTO" AND "START"

REFERENCES

TITLE	MPL NO.	DWG. NO.
8. GE2222988 ELECTRICAL DIAGRAM SEPARATION FOR SAFEGUARD SYSTEMS	ATO	S-17198
9. HPCI SYSTEM ELEMENTARY LOGIC DIAGRAMS SHEETS 1 THRU 12	E41A-1030	H-17162
10. NUCLEAR BOILER SYSTEM LOGIC DIAGRAMS SHEETS 1 THRU 12	B21-1030	H-19961
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 TFC IED	X75-1010	H-16402
14. DIGITAL INPUT SIGNALS TO THE ERF COMPUTER SYS. IED	X75-1010	H-16414
15. RCIC SYSTEM LOGIC DIAGRAMS SHEETS 1 THRU 15.	E51-1010	H-19955
		H-19952

FOR NOTES AND REFERENCES, SEE DWG. H-19947

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM C.E. DRAWING NO. IZ58272A, SHT.1, REV. 7, SHT.2, REV. 7, AND SHT.3, REV. 3. REV. 3 CSCI ACCESSION DRAWING NO. S-15153, S-16154, AND S-17137 RESPECTIVELY.

MPL NO. E41-1030

MPL No. E41-1030

ACAD/OTY H19949

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EDWIN I. HATCH NUCLEAR PLANT UNIT No.1
HIGH PRESSURE COOLANT INJECTION SYSTEM
LOGIC DIAGRAMS
SHEET 3 of 8

Revised: 2 Date: 1-14-88
REVISED PER AEN 97-0302.

BY	CHKD	APPV	DATE
BT	RLP	PKR	12-18-85

NO.	ISSUED	ISSUED BY	ISSUED FOR
10-502	H-19949	2	

OS66 I-H

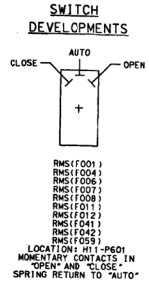
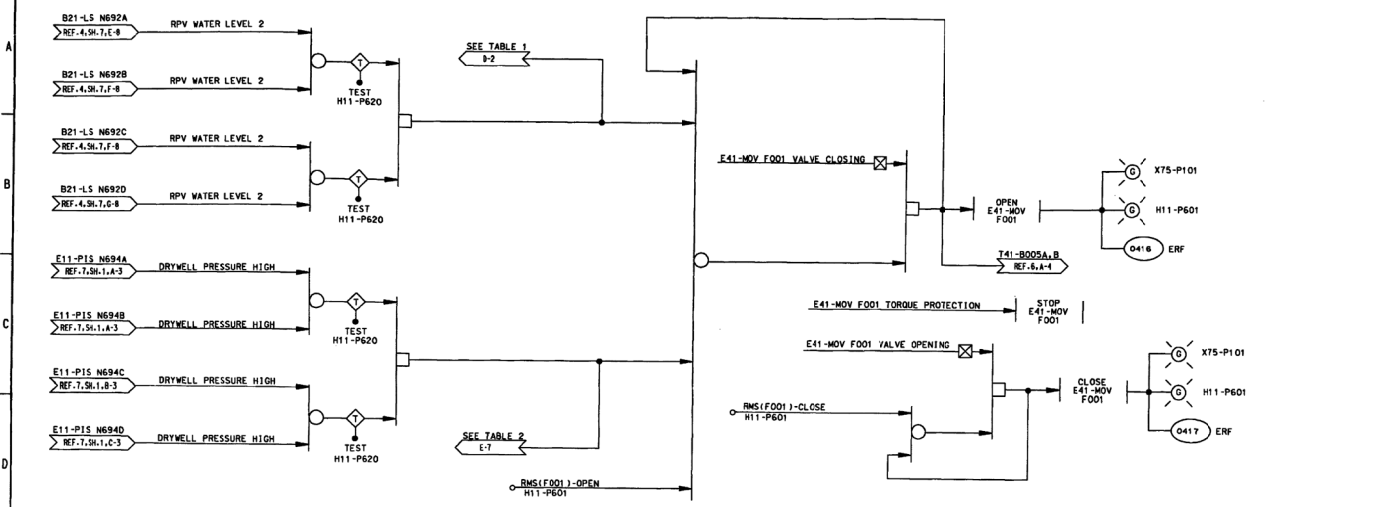


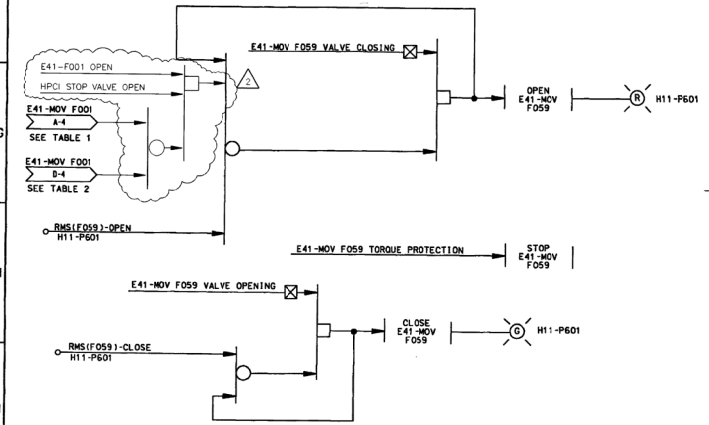
TABLE 1

TAG NUMBER	FUNCTION	SHT. NO.	COORD.
HPCI TURBINE TRIP SOLENOID SV1	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

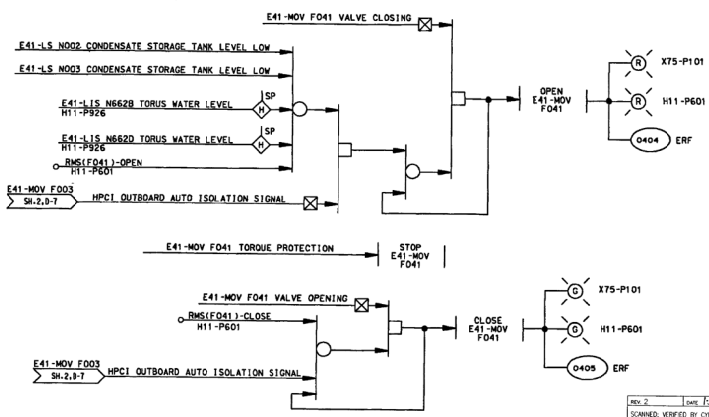
HPCI TURBINE STEAM SUPPLY GATE VALVE E41-MOV F001

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

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

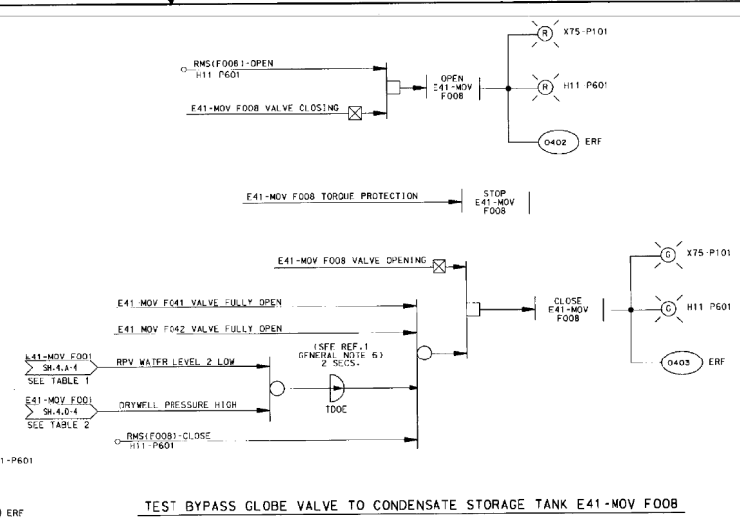
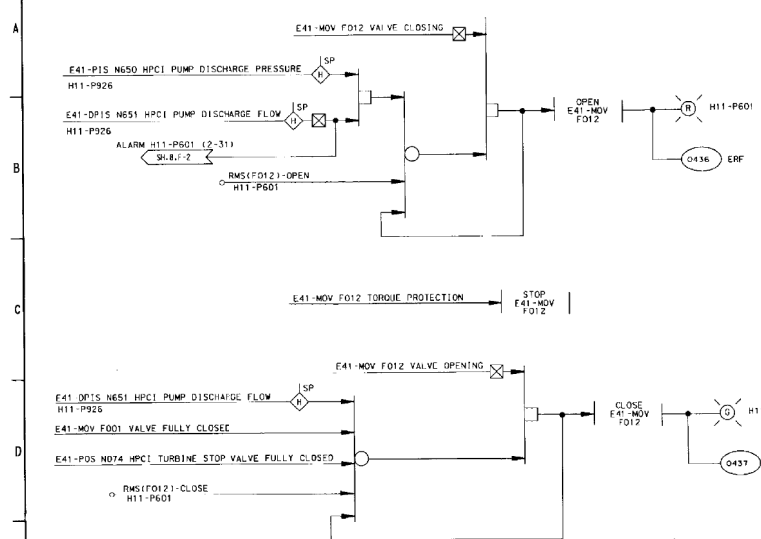
SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM O.E. DRAWING NO. 7286278A, SHT. 1, REV. 2; SHT. 2, REV. 1; AND SHT. 3, REV. 1. SC51 ACCESSION DRAWING NO. S-16153, S-16154, AND S-17137 RESPECTIVELY.

MPL NO. E41-1030 (REV. 11/1990)

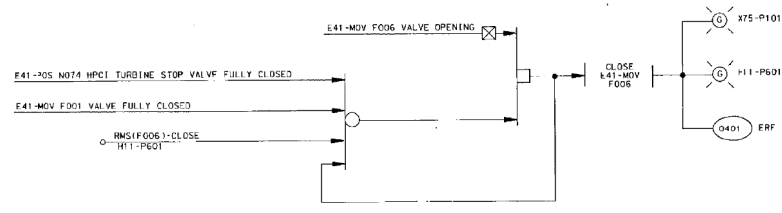
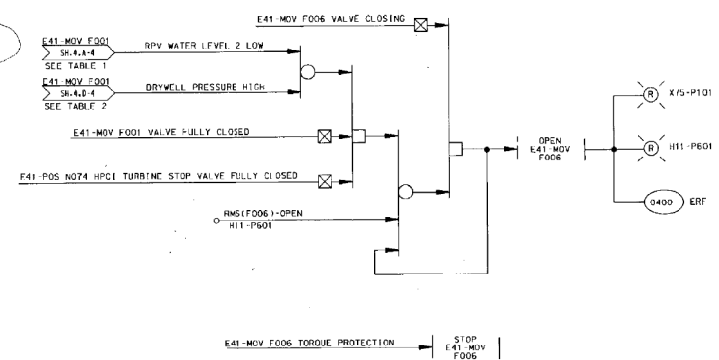
<p>BECHTEL JOB 6511 GAITHERSBURG, MARYLAND</p>		<p>SOUTHERN SERVICES INC. FOR</p>	
		<p>GEORGIA POWER CO., ATLANTA, GA. CENTRAL ENGINEERING DEPARTMENT</p>	
<p>EDWIN I. HATCH NUCLEAR PLANT UNIT NO. 1 HIGH PRESSURE COOLANT INJECTION SYSTEM LOGIC DIAGRAMS SHEET 4 OF 8</p>		<p>SCALE: 1"=10'-0"</p>	
<p>DATE: 10-5-82</p>		<p>DATE: 10-5-82</p>	
<p>10-502</p>		<p>H-19950</p>	

19561-H



MINIMUM FLOW BYPASS TO TORUS ISOLATION
 (PCIS VALVE GROUP 3) GLOBE VALVE E41-MOV F012

TEST BYPASS GLOBE VALVE TO CONDENSATE STORAGE TANK E41-MOV F008



HPC1 PUMP DISCHARGE ISOLATION GATE VALVE E41-MOV F006

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

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM C.E. DRAWING NO. 2296278A, SHEET 1, REV. 7, SHEET 2, REV. 7, AND SHEET 3, REV. 3. SCRI ACCESSION DRAWING NO. S-16153, S-16154, AND S-17137, RESPECTIVELY.

MPL NO. E41-1030

BECHTEL

JOB 5511 GAITHERSBURG, MARYLAND

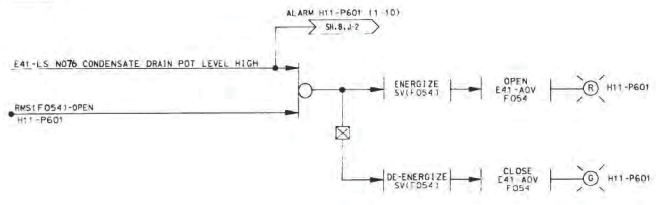
SOUTHERN SERVICES INC.
FOR

GEORGIA POWER CO., ATLANTA, GA.
GENERAL ENGINEERING DEPARTMENT
EDWIN L. HATCH NUCLEAR PLANT UNIT NO. 1
HIGH PRESSURE COOLANT INJECTION SYSTEM
LOGIC DIAGRAMS
SHEET 5 OF 8

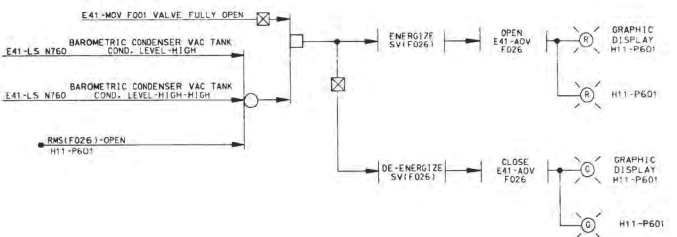
NO.	REVISION	DATE	BY	CHKD.	APP'D.
1	ISSUED FOR CONSTRUCTION	10/14/82			
2	REVISION				
3	REVISION				
4	REVISION				

DATE	10/14/82	SCALE	
DRAWN		LOCATION	10-502
CHECKED		SHEET NO.	H-19951

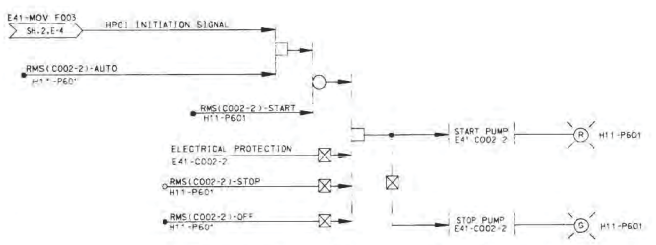
29661-H



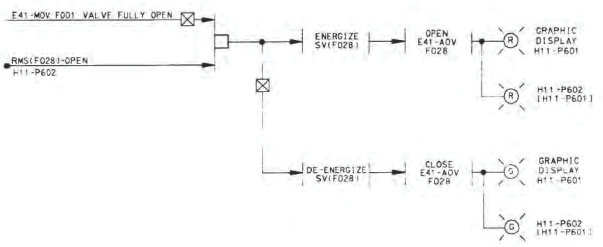
CONDENSATE DRAIN POT DRAIN TRAP BYPASS VALVE E41-AOV F054



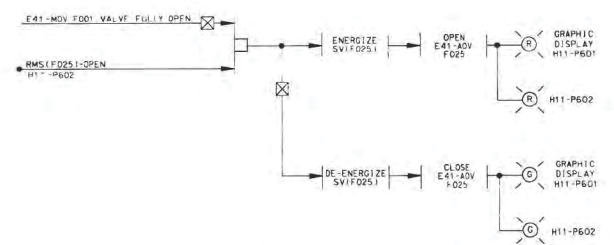
CONDENSATE PUMP DISCHARGE TO CRW ISOLATION VALVE E41-AOV F026



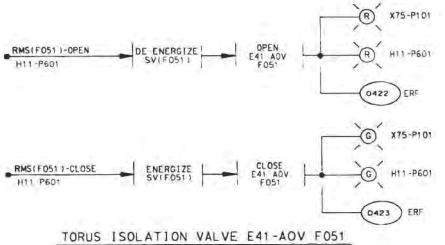
BAROMETRIC CONDENSER VACUUM PUMP E41-CO02-2



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

SWITCH DEVELOPMENTS



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

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 2966275A, SHEET 1, REV. 7, SH-2, REV. 7, AND OTHERS, REV. 7. SCO: 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	
DATE: 10-5-82 BY: [Signature] CHECKED: [Signature] DESIGNED: [Signature] DRAWN: [Signature] REVISIONS: [Table]	TITLE: TORUS ISOLATION VALVE E41-AOV F051 PROJECT: [Blank] SHEET NO.: 10-502 DATE: 10-5-82 H-19952

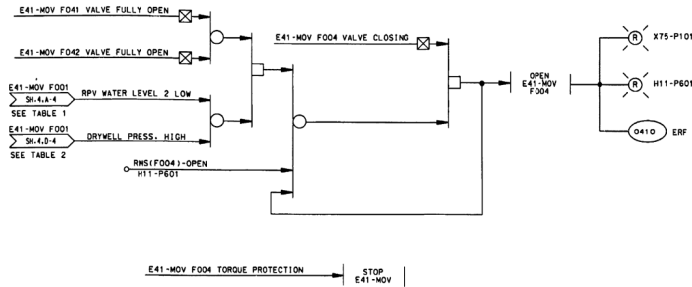
REV 3	DATE 9-22-82
REVISED PER WCR 80009093	
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BY: [Signature]	CHK: [Signature]
DATE: [Blank]	DATE: [Blank]

55661-H

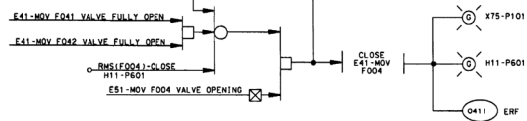
SWITCH DEVELOPMENTS

STOP AUTO START

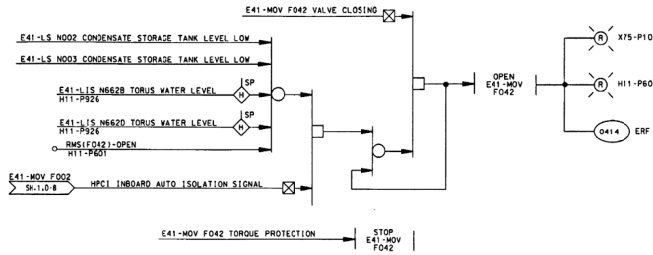
RMS(C002-1) LOCATION H11-P601 MOMENTARY CONTACTS IN "STOP" AND "START" SPRING RETURN TO "AUTO"



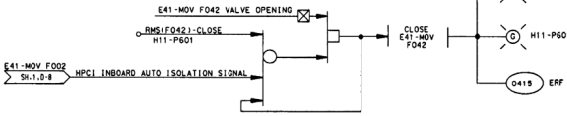
E41-MOV F004 TORQUE PROTECTION → STOP E41-MOV



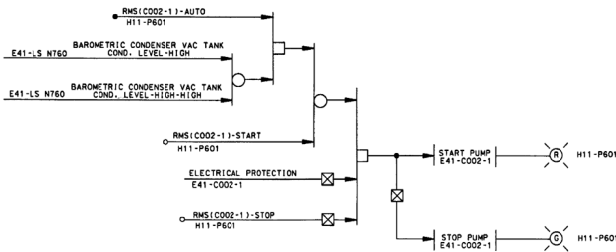
PUMP SUCTION FROM CONDENSATE STORAGE TANK ISOLATION GATE VALVE E41-MOV F004



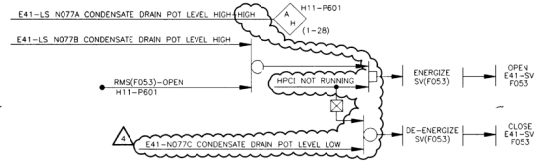
E41-MOV F042 TORQUE PROTECTION → STOP E41-MOV F042



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



BAROMETRIC CONDENSER VACUUM TANK CONDENSATE PUMP E41-C002-1



TURBINE EXHAUST DRAIN POT DRAIN VALVE E41-SV F053

E41-C002-3 HPCI AUX. OIL PUMP ELECTRICAL PROTECTION (1-06)

E41-LS N759 HPCI OIL TANK LEVEL HIGH (11-P601)

E41-LS N759 HPCI OIL TANK LEVEL LOW (11-30)

E41-LS N002 CONDENSATE STORAGE TANK LEVEL LOW (11-P601)

E41-LS N003 CONDENSATE STORAGE TANK LEVEL LOW (X75-P101)

E41-LS N662B TORUS WATER LEVEL (H11-P926)

E41-LS N662D TORUS WATER LEVEL (H11-P926)

E41-MOV F002 VALVE FULLY OPEN (H11-P603)

E41-MOV F003 VALVE FULLY OPEN (2-7)

E41-MOV F111 VALVE FULLY OPEN (H11-P601)

E41-MOV F104 VALVE FULLY OPEN (11-14)

FOR NOTES AND REFERENCES, SEE DWG. H-19917

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 296E278A SH 1, REV. 7, SH 2, REV. 1, AND SH 3, REV. 2. 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

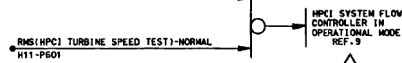
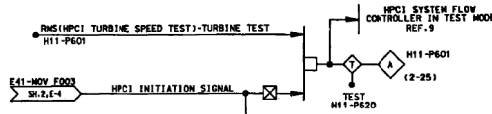
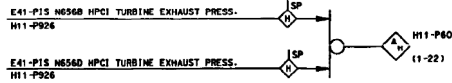
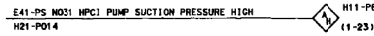
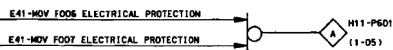
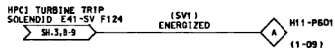
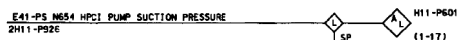
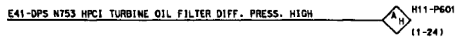
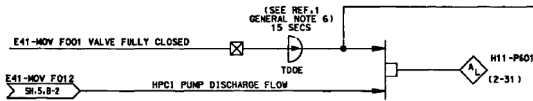
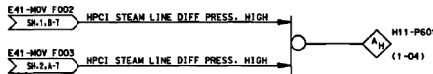
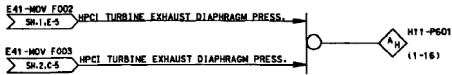
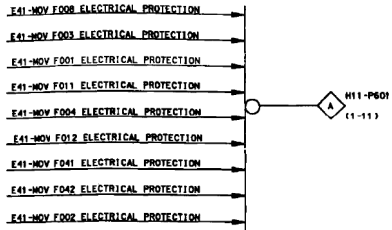
GEORGIA POWER CO., ATLANTA, GA. GENERAL ENGINEERING DEPARTMENT

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

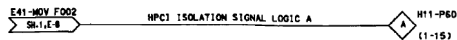
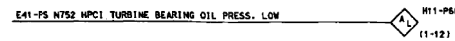
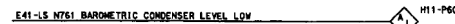
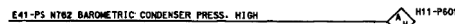
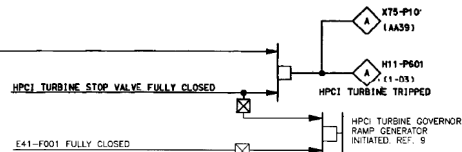
SHEET 7 OF 8

NO.	DATE	BY	CHKD.	APP.	REVISION
1	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
2	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
3	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
4	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
5	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
6	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
7	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
8	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
9	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
10	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
11	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
12	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
13	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807

NO.	DATE	BY	CHKD.	APP.	REVISION
1	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
2	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
3	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
4	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
5	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
6	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
7	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
8	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
9	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
10	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
11	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
12	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807
13	11/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	REVISED PER WORK ORDER NO. 87-007-C, DORP-807



HPCI TURBINE SPEED CONTROL E41-FIC-R612



SWITCH DEVELOPMENTS



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

FOR NOTES AND REFERENCES, SEE DWG. N-19947

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 7296278A; SHEET 1, REV. 7, SHEET 2, REV. 7, AND SHEET 3, REV. 7. SCS ACCESSION DRAWING NO. S-16153, S-16154, AND S-17137, RESPECTIVELY.

MPL # E41-1030

ACADWY H1884

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

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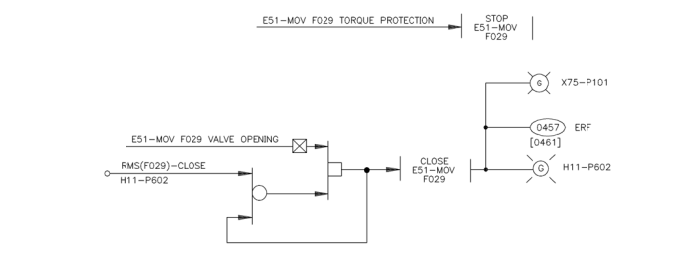
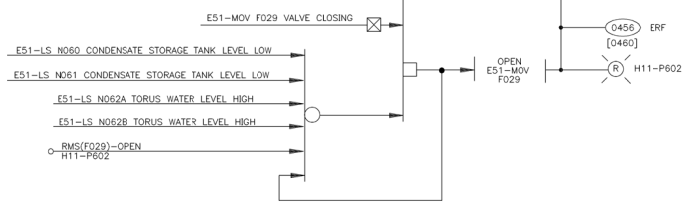
EDWIN L HATCH NUCLEAR PLANT UNIT No. 1 HIGH PRESSURE COOLANT INJECTION SYSTEM LOGIC DIAGRAMS SHEET 8 OF 8

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

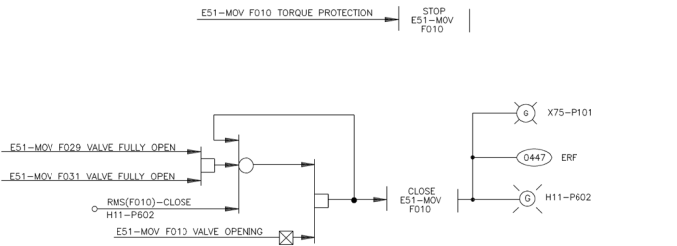
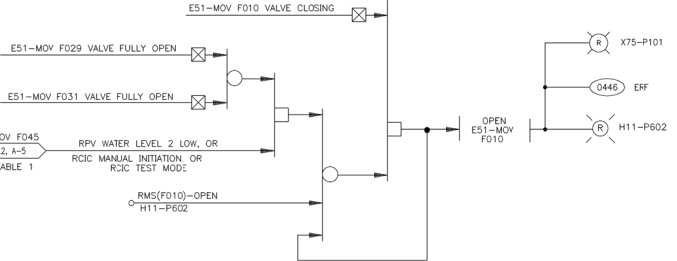
NO.	DATE	BY	CHKD.	REVISED	REASON
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2					
3	6/11/04				

10-502 H-19954 3

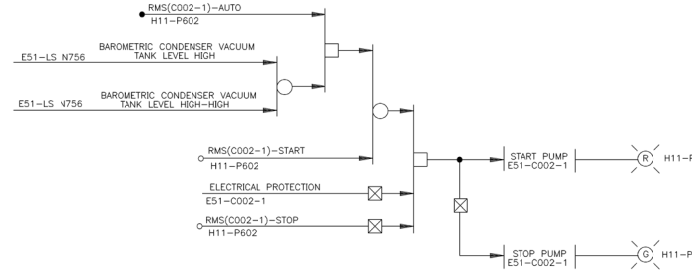
SS661-H



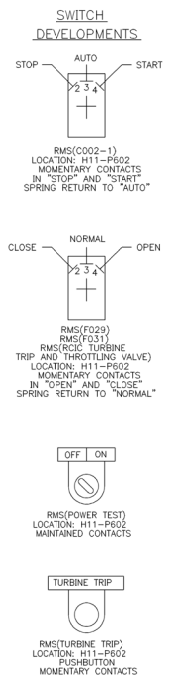
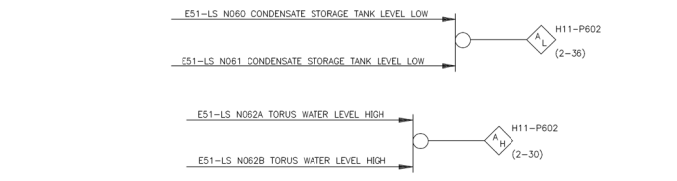
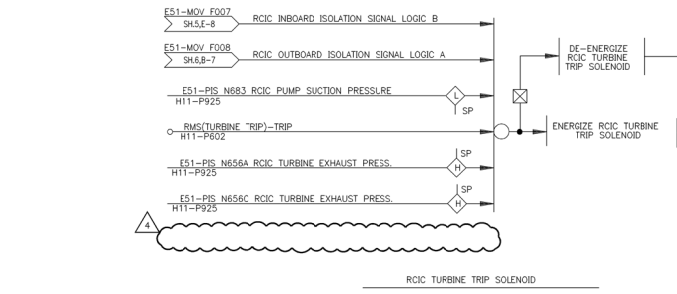
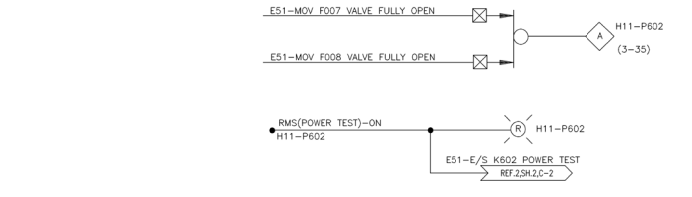
PUMP SUCTION FROM TORUS ISOLATION GATE VALVE E51-MOV F029 TYPICAL FOR:[E51-MOV F031]



PUMP SUCTION FROM CONDENSATE STORAGE TANK ISOLATION GATE VALVE E51-MOV F010



BAROMETRIC CONDENSER VACUUM TANK CONDENSATE PUMP E51-C002-1



- NOTES**
1. ALL EQUIPMENT AND INSTRUMENTS ARE PRECEDED BY MPL NO E51 UNLESS OTHERWISE NOTED.
 2. FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS, SEE INSTRUMENT INDEX OR EQUIPMENT LOCATION INDEX (ELI).
 3. FOR LOGIC DIAGRAMS--LEGEND AND GENERAL NOTES, SEE REFERENCE 1.
 4. FOR INFORMATION ON ALARMS, VALVE INDICATING LIGHT REQUIREMENTS AND PROCESS INSTRUMENTATION REQUIREMENTS WHICH ARE NOT SHOWN ON THE LOGIC DIAGRAMS, SEE REFERENCE 2.
 5. IF THE TURBINE TRIP AND THROTTLING VALVE IS CLOSED USING THE SPRING MECHANISM THE VALVE CAN NOT BE OPENED UNTIL THE SPRING MECHANISM IS MANUALLY RESET AT THE TURBINE E51-C002.
 6. ISOLATION SIGNAL SWITCHES SHALL BE OF THE TYPE THAT CLOSE CONTACTS FOR THE SPECIFIED ISOLATION EVENT--WHERE AUXILIARY RELAYS ARE USED IN THE ISOLATION CHANNELS THEY SHALL BE POWERED FROM THE STATION BATTERIES.
 7. THE RCIC SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH REFERENCE 7 AND WITH "PROPOSED CRITERIA FOR NUCLEAR POWER PLANT PROTECTION SYSTEM (IEEE-279)" AS APPLICABLE TO THE CONTROL CIRCUITRY.
 8. ALL POWER FOR OPERATION OF D.C. VALVE MOTORS SHALL ORIGINATE FROM A PLANT D.C. BUS. POWER FOR AC OPERATED VALVES SHALL ORIGINATE FROM AN EMERGENCY A.C. BUS.
 9. THE RCIC SYS. IS ARRANGED FOR TEST OF PUMP AT FULL FLOW & ALL VALVES FOR OPEN & CLOSE CAPABILITY AT ANY TIME EXCEPT WHEN INITIATION SIGNAL OR AUTO ISOLATION SIGNAL IS ACTIVATED. IN EVENT THE INITIATION SIGNAL OCCURS WHILE TEST IS UNDERWAY THE SYS. AUTOMATICALLY RETURNS TO START-UP MODE.
 10. IF TURBINE TRIP SOLENOID IS ENERGIZED, TRIP AND THROTTLING VALVE IS DE-ENERGIZED FROM ACTUATOR AND THE VALVE CLOSES. AFTER THE SOLENOID HAS BEEN DE-ENERGIZED, THE ACTUATOR MUST BE DRIVEN TO THE FULLY CLOSED POSITION BEFORE THE VALVE CAN OPEN AGAIN.

FOR REFERENCES SEE DRAWING H-19956
SUPERSEDING
THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 729E22BA, SHT.1, REV.8 DHT.2, REV.0, SHT.3, SHT.4 AND, SHT.4, REV.8. SC51 ACCESSION DRAWING NO. S-18159, S-18160, S-18161 AND, S-18107 RESPECTIVELY.

MPL # E51-1030 ACA2K H19955

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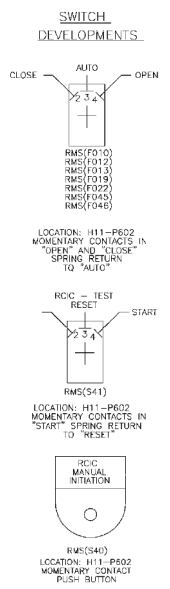
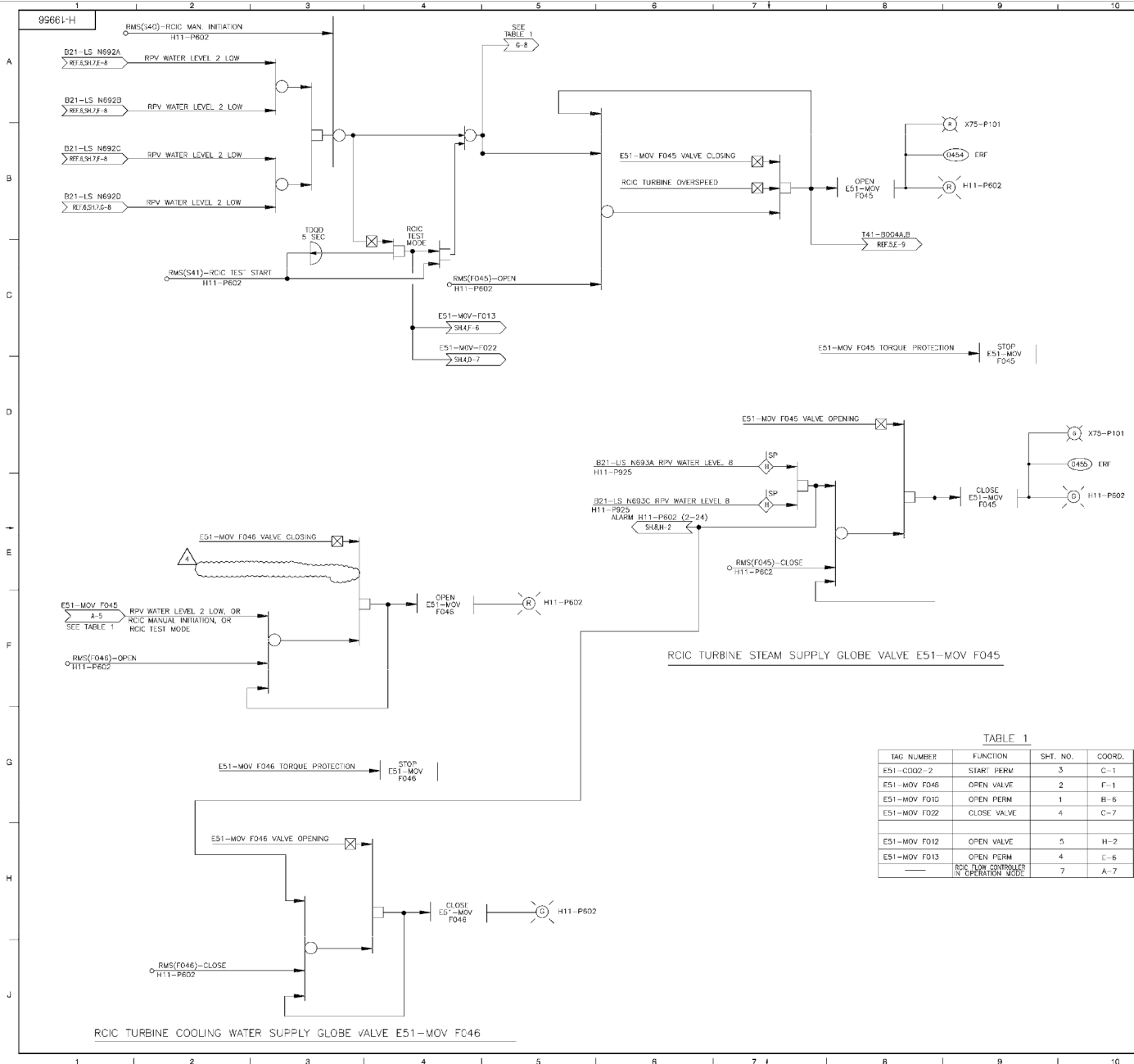
EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
REACTOR CORE ISOLATION COOLING SYSTEM
LOGIC DIAGRAM
SHEET 1 OF 8

DESIGN	DATE	DESIGNED	DRAWING NUMBER	REVISION
CADD/BW	DMP		10-502	H-19955
RCR	CTW	RLP	None	1-14-86

Revision: 4 Date: 3-1-02
REVISED PER ABN 00-0025-002.

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REFERENCES

ITEM	TITLE	MPL NO.	DWG. NO.
1.	LOGIC DIAGRAMS—LEGEND AND GENERAL NOTES	A21-1030	H-19909
2.	RCIC SYSTEM P&ID SHEETS 1 & 2	E51-1010	H-16334 H-16335
3.	NUCLEAR BOILER SYSTEM P&ID SHEETS 1 & 2	B21-1010	H-16057 H-16058 H-16145
4.	RHR SYSTEM P&ID SHEETS 1 & 2	E11-1010	H-16329 H-16330
5.	SAFEGUARD EQUIP. COOLING SYSTEM P&ID	T41-1030	H-16025
6.	RHR SYSTEM LOGIC DIAGRAMS SHEETS 1 THRU 7	E11-1030	H-19937 THRU H-19943
7.	CORE SPRAY SYSTEM LOGIC DIAGRAMS SHEETS 1 THRU 3	E21-1030	H-19944 THRU H-19943
8.	GE 2242989 ELECTRICAL EQUIPMENT SEPARATION FOR SAFEGUARD SYSTEMS	A70	S-17108
9.	RCIC SYSTEM ELEMENTARY DIAGRAMS—SHT 1 THRU 8	E51A-1040H-17147	THRU H-17153 H-14237
10.	NUCLEAR BOILER SYSTEM LOGIC DIAGRAMS THRU SHEETS 1 THRU 12	B21-1030	H-19901 THRU H-19912
11.	HIGH PRESSURE COOLANT INJECTION SYSTEM LOGIC DIAGRAMS SHEETS 1 THRU 8	E41-1030	H-19947 THRU H-19994
12.	ERF MULTIPLEXER SYSTEM I.E.D.	X75-1010	H-16401
13.	ANNUNCIATOR SIGNALS TO TSC I.E.D.	X75-1010	H-16408
14.	DIGITAL INPUT SIGNALS TO THE ERF COMPUTER SYSTEM I.E.D.	X75-1010	H-16407 H-16408 H-16416

TABLE 1

TAG NUMBER	FUNCTION	SHT. NO.	COORD.
E51-C002-2	START PERM	3	C-1
E51-MOV F046	OPEN VALVE	2	F-1
E51-MOV F010	OPEN PERM	1	B-6
E51-MOV F022	CLOSE VALVE	4	C-7
E51-MOV F012	OPEN VALVE	5	H-2
E51-MOV F013	OPEN PERM	4	E-6
RCIC FLOW CONTROLLER IN OPERATION MODE		7	A-7

FOR NOTES SEE DWG. H-19955.

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 72392228A, SHT. 1, REV. 5, SHT. 2, REV. 6, SHT. 3, REV. 7 AND, SHT. 4, REV. 8. SEE ACCESSION DRAWING NOS. S-16159, S-16160, S-16161 AND, S-16107 RESPECTIVELY.

MPL # E51-1030 (ACAD) 4 (H19955)

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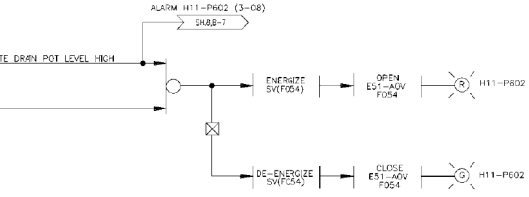
EDWIN L. HATCH NUCLEAR PLANT UNIT No. 1
REACTOR CORE ISOLATION COOLING SYSTEM
LOGIC DIAGRAMS
SHEET 2 OF 8

Revision: 4 Date: 10-14-99
REVISED PER ABN 99-0347.

NO.	DATE	BY	CHKD.	REVISION
1	1-15-86	None		
4	10-502	H-19956		4

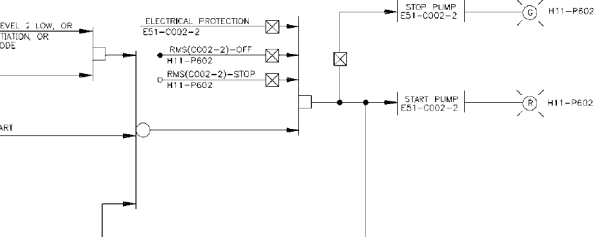
29861-H

E51-LS N088 CONDENSATE DRAIN POT LEVEL HIGH
RMS(F054)-OPEN
H11-P602



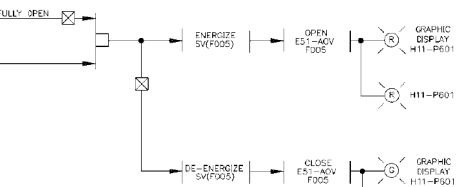
CONDENSATE DRAIN POT DRAIN VALVE E51-AOV F054

E51-MOV F045
> U12A-5
SEE TABLE 1
RCW WATER LEVEL 2 LOW OR
RCIC WAT. INITIATION OR
RCIC TEST MODE
RMS(C002-2)-AUTO
H11-P602
RMS(C002-2)-START
H11-P602

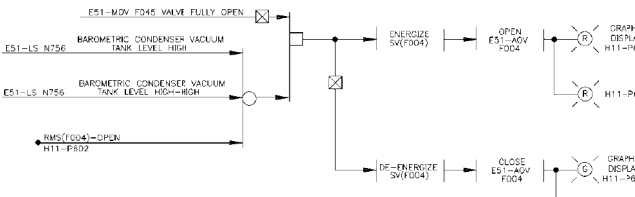


BAROMETRIC CONDENSER VACUUM PUMP E51-C002-2

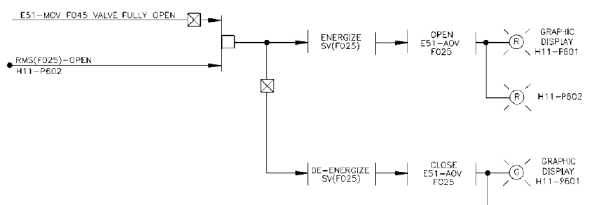
E51-MOV F045 VALVE FULLY OPEN
RMS(F005)-OPEN
H11-P601
DE-ENERGIIZE SV(F005)
ENERGIIZE SV(F005)
OPEN E51-AOV F005
CLOSE E51-AOV F005



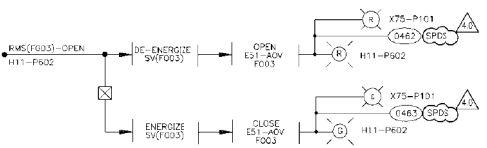
CONDENSATE PUMP DISCHARGE TO CRW ISOLATION OUTBOARD VALVE E51-AOV F005



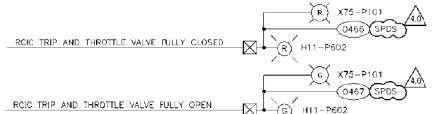
CONDENSATE PUMP DISCHARGE TO CRW ISOLATION INBOARD VALVE E51-AOV F004



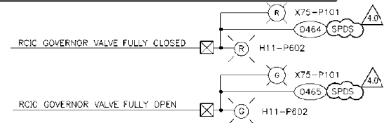
STEAM LINE DRAIN TO MAIN CONDENSER ISOLATION INBOARD VALVE E51-AOV F026
STEAM LINE DRAIN TO MAIN CONDENSER ISOLATION OUTBOARD VALVE E51-AOV F028
H11-P601



TORUS ISOLATION VALVE E51-AOV F003



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

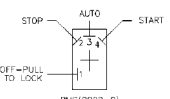


GOVERNOR VALVE E51-H.O.F523 INDICATION

SWITCH DEVELOPMENTS



RMS(F003)
RMS(F004)
RMS(F025)
RMS(F045)
LOCATION: H11-P602
RMS(F005)
RMS(F026)
LOCATION: H11-P601
MAINTAINED CONTACTS



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

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 72956208A SHT 1, REV 8 SHT 2, REV 5, SHT 3, REV 7 AND SHT 4, REV 5. USCI ACCESSION DRAWING NO. S-16159, S-16160, S-16161 AND, S-16107 RESPECTIVELY.

MPL No. E51-1030 (ACA2PK) H19657

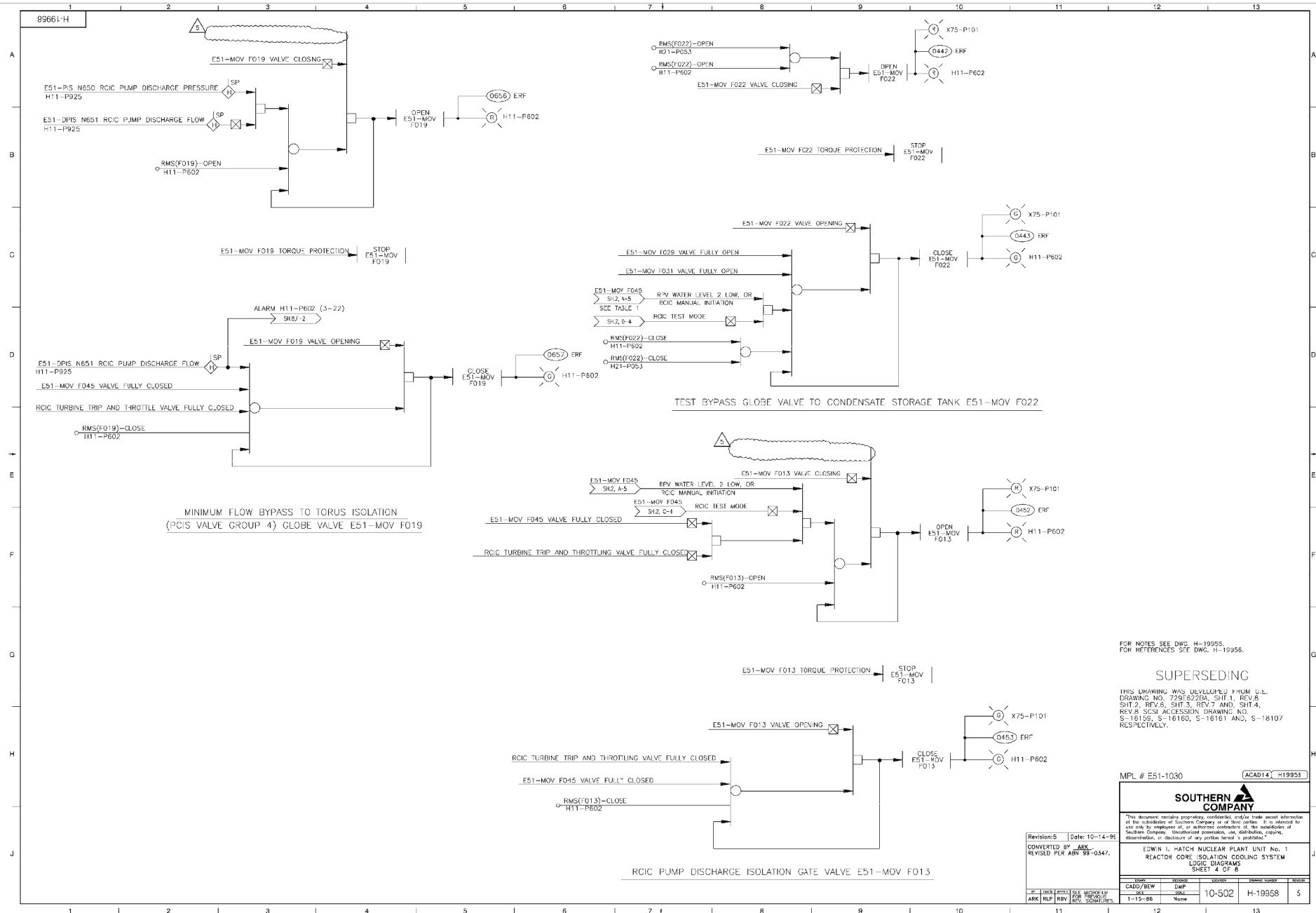


EDWIN L. HATCH NUCLEAR PLANT UNIT No.1
REACTOR CORE ISOLATION COOLING SYSTEM
LOGIC DIAGRAMS
Sheet 3 of 8

Version: 4.0	Date: 4-13-05
REVISED PER	BY
ADN 99-0049-025, VER. 1.0	10-502
1-15-86	No Scale

NO.	DATE	BY	CHKD.	ISSUED	REVISION
1	1-15-86	MLH/BCV	MLH/BCV	10-502	H1-19657
4					

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

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM U.S. DRAWING NO. 729-622(B), SHEET 1, REV. 8 SHEET 2, REV. 5, SHEET 3, REV. 7 AND SHEET 4, REV. 8. SCRS ACCESSION DRAWING NO. S-18159, S-18160, S-18161 AND S-18107 RESPECTIVELY.

MPL # E51-1030 (ACAD14_H19955)

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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
REACTOR CORE ISOLATION COOLING SYSTEM
LOGIC DIAGRAMS
SHEET 4 OF 8

Revision: 5	Date: 10-14-95
CONVERTED BY: ARK	
REVISED PER: ARN 98-0347.	
FOR: SCRS	
REV. SCHEM. SPS.	

NO.	DATE	BY	REASON	ISSUED TO	REVISION
1	1-15-86	None			
10-502		H-19958			5

69861-H

SWITCH DEVELOPMENTS

CLOSE STOP OPEN

RMS (F007)
RMS (F008)
LOCATION: H11-P602
KEYLOCK MAINTAINED CONTACTS, KEY REMOVABLE IN OPEN

RESET NORMAL

RMS(ONBOARD ISOLATION SIGNAL RESET)
RMS(OUTBOARD ISOLATION SIGNAL RESET)
LOCATION: H11-P602
KEYLOCK MAINTAINED CONTACTS, KEY REMOVABLE IN NORMAL

ISOLATE

RMS(RCIC LEAK DET. SYSTEM A TIMER BYPASS)
RMS(RCIC LEAK DET. SYSTEM B TIMER BYPASS)
LOCATION: H11-P614
PUSHBUTTON MOMENTARY CONTACTS

NORMAL TEST

RMS(RCIC LEAK DET. LOGIC A TEST)
RMS(RCIC LEAK DET. LOGIC B TEST)
LOCATION: H11-P614
MAINTAINED CONTACTS KEY REMOVABLE IN "NORMAL" ONL

FOR NOTES SEE DWG. H-19959.
FOR REFERENCES SEE DWG. H-19956.

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 7296622BA, SHT. 1, REV. 8 SHT. 2, REV. 6, SHT. 3, REV. 7 AND, SHT. 4, REV. 8 SUCH AS ACCESSION DRAWING NO. S-18159, S-18160, S-18161 AND, S-18107 RESPECTIVELY.

MPL # E51-1030 (ACAD:4 H19959)

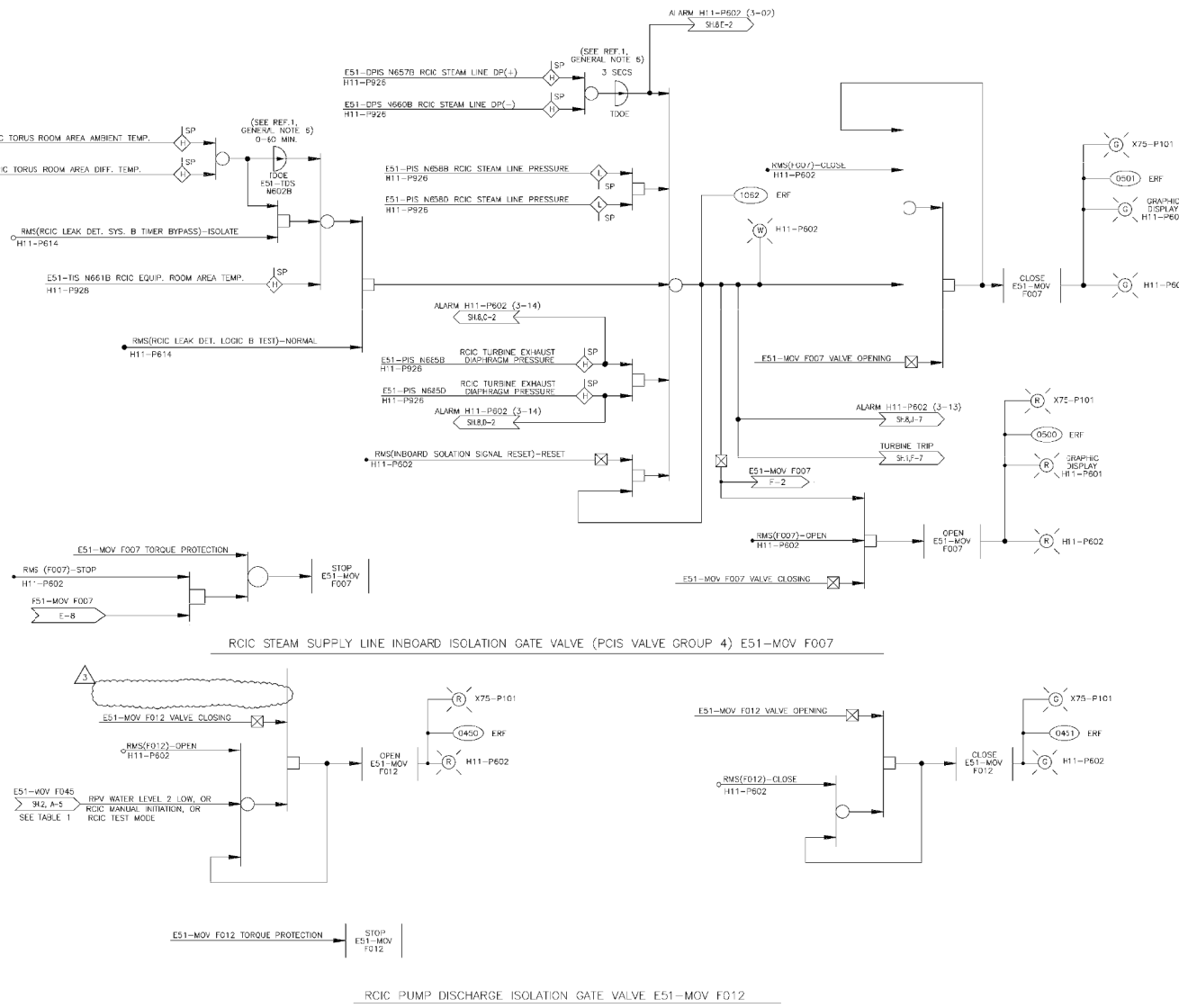
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EDWIN L. HATCH NUCLEAR PLANT UNIT No. 1
REACTOR CORE ISOLATION COOLING SYSTEM
LOGIC DIAGRAMS
SHEET 5 OF 8

Revision: 3 Date: 10-14-95
CONVERTED BY: JLB
REVISED PER: ABR 95-0347.

NO.	DATE	BY	REASON	ISSUED	CONTROL NUMBER	REVISED
1		CADY/BEW	ENP			
2		JAL	ENP			
3	1-15-86	None				
4		None				
5		None				
6		None				
7		None				
8		None				
9		None				
10		None				
11		None				
12		None				
13		None				



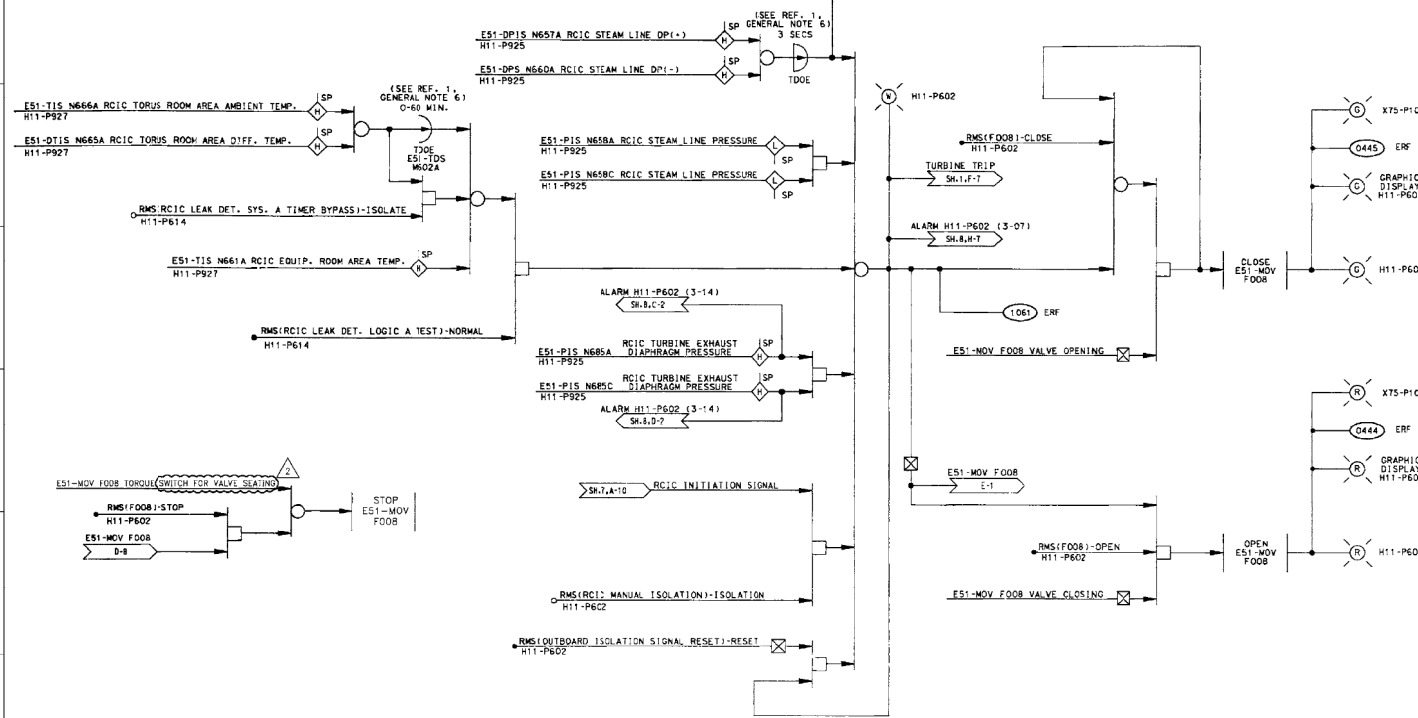
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09661-H

SWITCH DEVELOPMENTS

ISOLATION

RMS(RCIC MANUAL ISOLATION) LOCATION: H11-P602 PUSH BUTTON MOMENTARY CONTACTS



RCIC STEAM SUPPLY LINE OUTBOARD ISOLATION GATE VALVE (PCIS VALVE GROUP 4) E51-MOV F00B

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

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 725642284, SH.1, REV. B SH.1,2, REV. A, SH.3, REV. 7 AND, SH.1,4, REV. B, SH.3 ACCESSION DRAWING NO. S-18159, S-18160, S-18161 AND, S-18107 RESPECTIVELY.

MPL NO. E51-1030 (ACAD) (H19962)



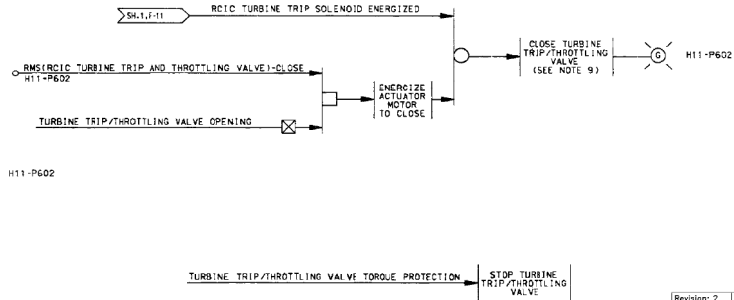
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Revision: 2 Date: 7/8/99
REVISED PER ABN 97-0039-008.

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1 REACTOR CORE ISOLATION COOLING SYSTEM LOGIC DIAGRAMS SHEET 6 OF 8

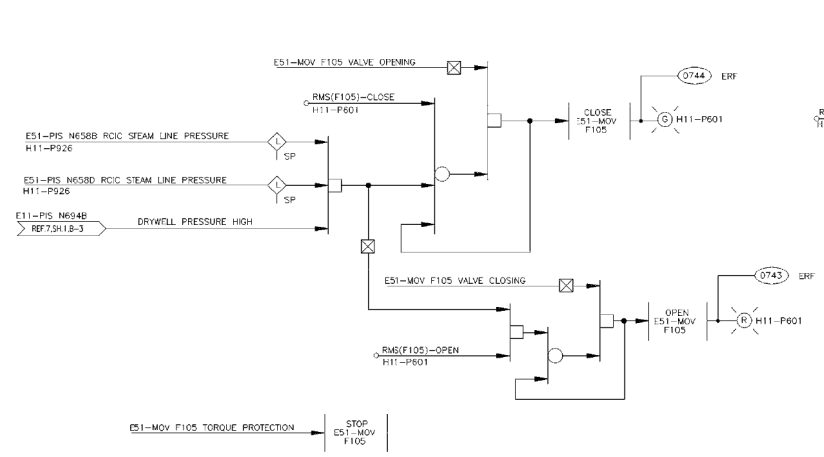
DATE	ENGINEER	LOGIC	EXAMINER	REVISION
11-15-88	None	None	None	2

RCIC TURBINE TRIP AND THROTTLING VALVE E51-MO F524



DATE	ENGINEER	LOGIC	EXAMINER	REVISION
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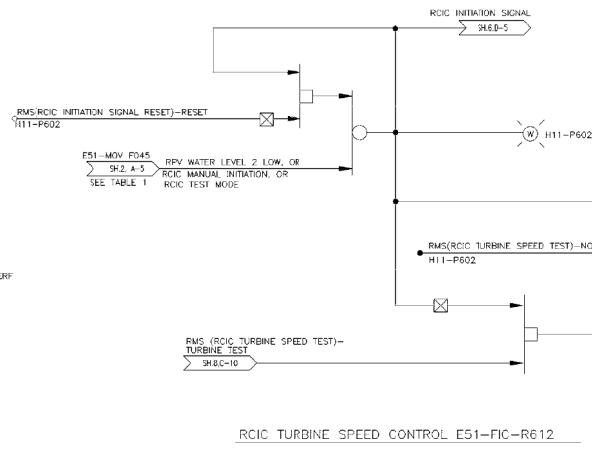
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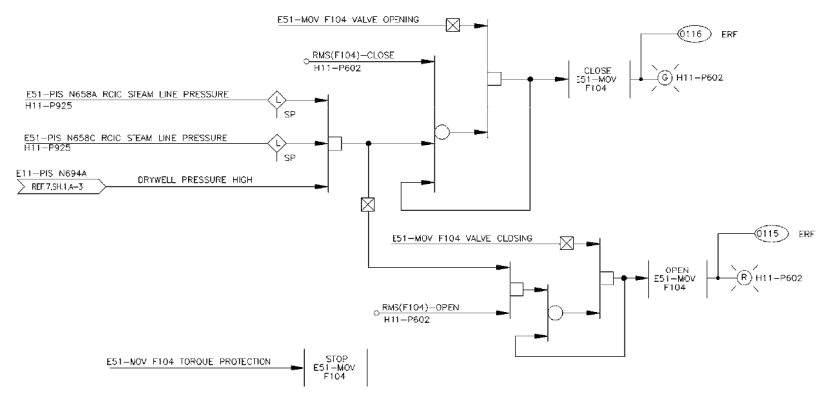
E51-MOV F105 TORQUE PROTECTION → STOP E51-MOV F105

TURBINE EXHAUST VACUUM BREAKER GATE VALVE E51-MOV F105

PCIS VALVE GROUP 9



RCIC TURBINE SPEED CONTROL E51-FIC-R612



E51-MOV F104 TORQUE PROTECTION → STOP E51-MOV F104

TURBINE EXHAUST VACUUM BREAKER GATE VALVE E51-MOV F104

PCIS VALVE GROUP 9

SWITCH DEVELOPMENTS



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

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 228E228A, SHT. 1, REV. 8, SHT. 2, REV. 6, SHT. 3, REV. 7 AND, SHT. 4, REV. 8. SCS ACCESSION DRAWING NO. S-16159, S-16160, S-16161 AND, S-18107 RESPECTIVELY.

MPL No. E51-1030 ACAD001 H19661



EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
REACTOR CORE ISOLATION COOLING SYSTEM
LOGIC DIAGRAMS
SHEET 7 of 8

Revisions: 5 Date: 1-14-88
REVISED PER ABN 97-0302.

BY	DATE	CHKD	REVISION	DESCRIPTION	APPROVED
CAF/J/BEN		None			
STP	RLP	PKR	REV. SIGNATURES	1-16-88	No Scale

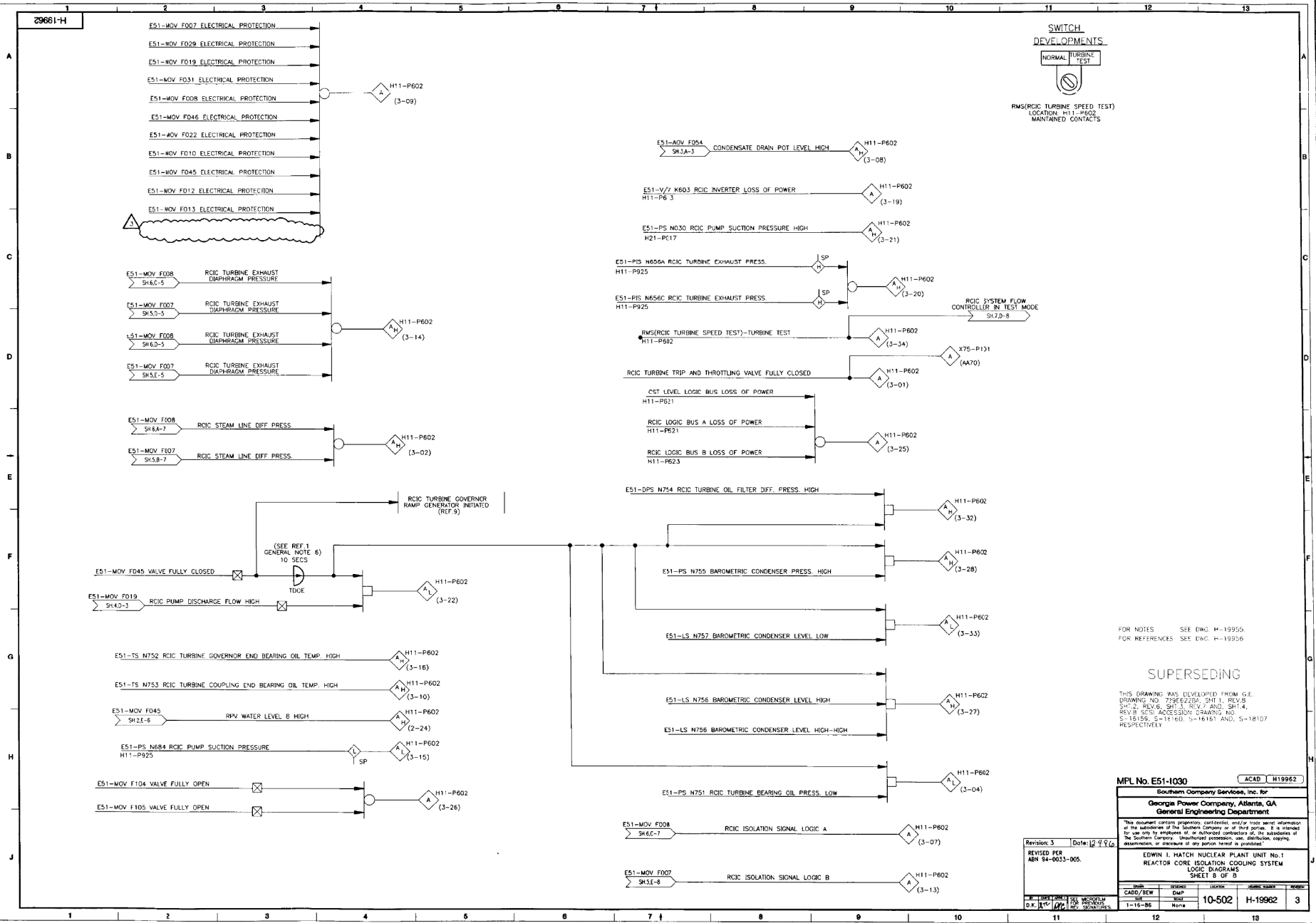
10-502 H-19961 5

29661-H

SWITCH DEVELOPMENTS



RMS(RCIC TURBINE SPEED TEST)
LOCATION: H11-P602
MAINTAINED CONTACTS



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

SUPERSEDING

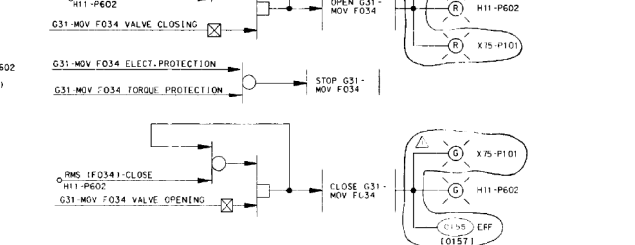
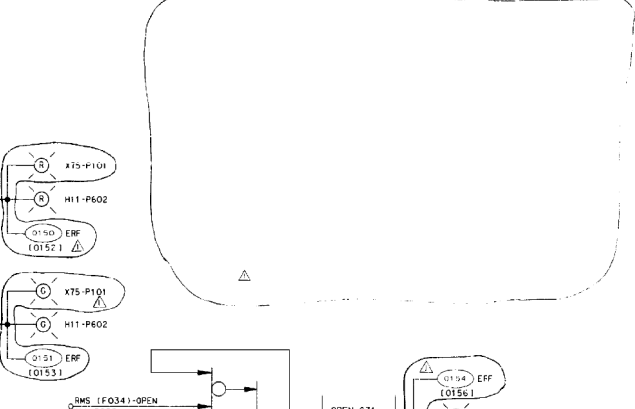
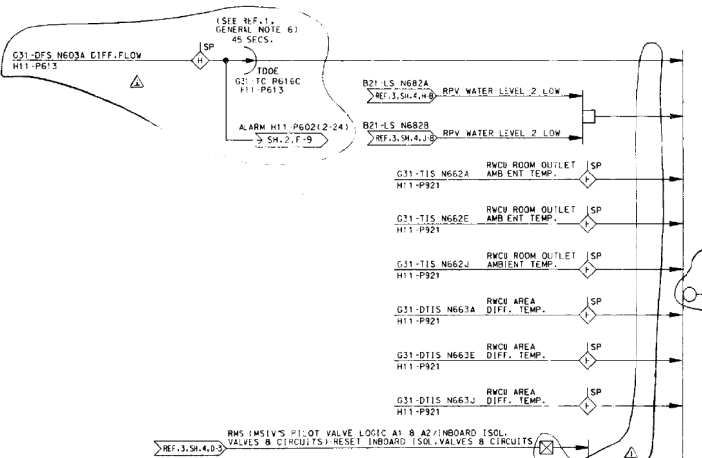
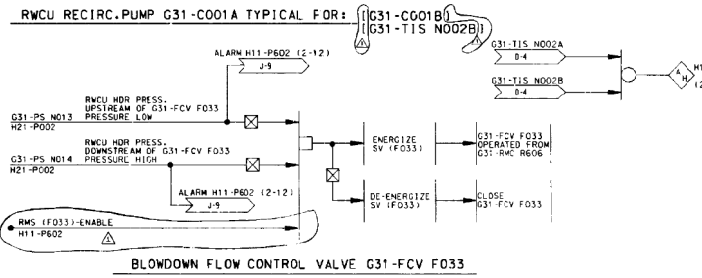
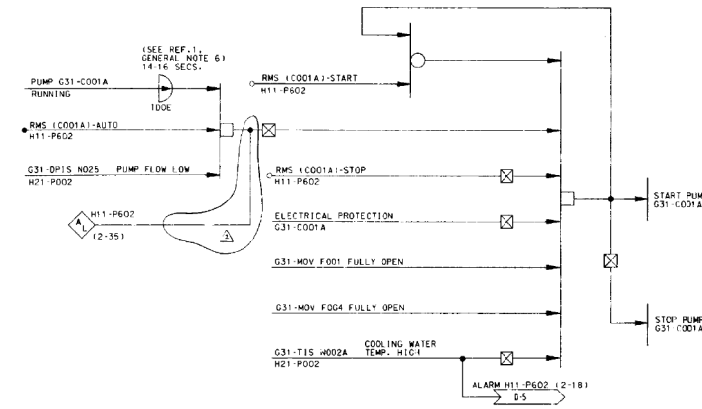
THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 77962204, SHT 1, REV. 8, SHT 2, REV. 9, SHT 3, REV. 7 AND SHT 4, REV. 8. THIS ACCESSORY DRAWING NO. S-18156, S-18160, S-18161 AND S-18107 RESPECTIVELY.

MPL No. E51-1030 ACAD H19962

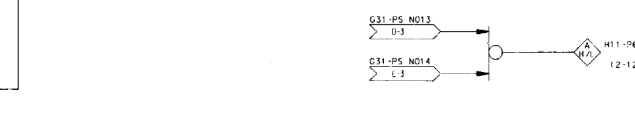
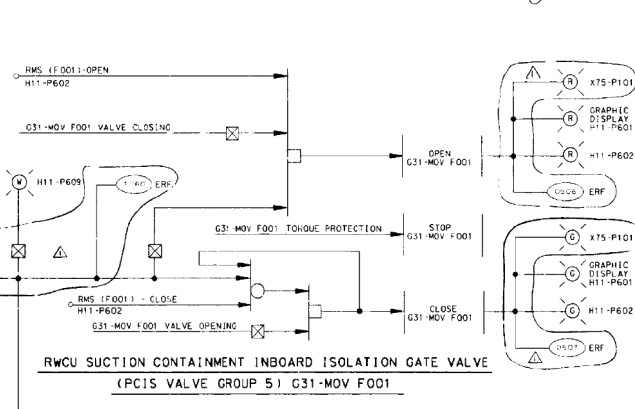
Georgia Power Company Services, Inc. for
Southern Company Services, Atlanta, GA
General Engineering Department
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
REACTOR CORE ISOLATION COOLING SYSTEM
LOGIC DIAGRAMS
SHEET B OF D

Revision: 3 Date: 12/9/62
REVISED PER ABN 94-0033-005.

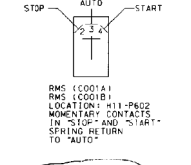
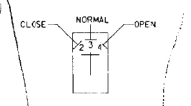
NO.	DATE	BY	CHK'D	REVISION	ISSUED	ISSUE NO.	REVISION
1	1-16-66	None			10-502	H-19962	3



RWCU REJECT TO MAIN CONDENSER ISOL. GATE VALVE G31-MOV F034 TYPICAL FOR: RWCU REJECT TO WASTE COLLECTOR AND SURGE TANK ISOL. GATE VALVE G31-MOV F035



SWITCH DEVELOPMENTS



- NOTES**
1. ALL EQUIPMENT AND INSTRUMENTS ARE PROVIDED BY MPL NO. G31 UNLESS OTHERWISE NOTED.
 2. FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS, SEE INSTRUMENT INDEX OR EQUIPMENT LOCATION INDEX (ELL).
 3. FOR LOGIC DIAGRAMS LEGEND AND GENERAL NOTES, SEE REFERENCE 1.
 4. FOR INFORMATION ON ALARMS, VALVE INDICATING LIGHT REQUIREMENTS AND PROCESS INSTRUMENTATION REQUIREMENTS WHICH ARE NOT SHOWN ON THE LOGIC DIAGRAMS, SEE REFERENCE 2.
 5. APPLICABLE FOR G31-MOV F042 ONLY.

- REFERENCES**
- | TITLE | MPL NO. | DWG. NO. |
|--|----------|----------------------------|
| 1. LOGIC DIAGRAMS LEGEND AND GENERAL NOTES | A21-1030 | H-19500 |
| 2. REACTOR WATER CLEAN UP SYSTEM P&ID SHEETS 1 & 2 | G31-1010 | H-16188
H-16189 |
| 3. NUCLEAR BOILER SYSTEM LOGIC DIAGRAMS SHEETS 1 THRU 12 | B21-1050 | H-15901
THRU
H-15912 |
| 4. STANDBY LIQUID CONTROL SYSTEM LOGIC DIAGRAMS | C41-1050 | H-19326 |
| 5. DIGITAL INPUT SIGNALS TO THE ERF COMPUTER SYSTEM (I.E.D. SHS-6.3) 1-4 OF 12 | X75-1010 | H-16408
H-16416 |
| 6. ERF CLASS 1E DIGITAL ISOLATION SYSTEM (I.E.D.) 1-4 OF 12 | X75-1010 | H-16400 |
| 7. ERF MULTIPLEXER SYSTEM (I.E.D.) 1-4 OF 12 | X75-1010 | H-16401 |

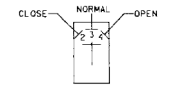
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THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 722608-001-1, REV. 9. SCST ACCESSION DRAWING NO. S15889-9

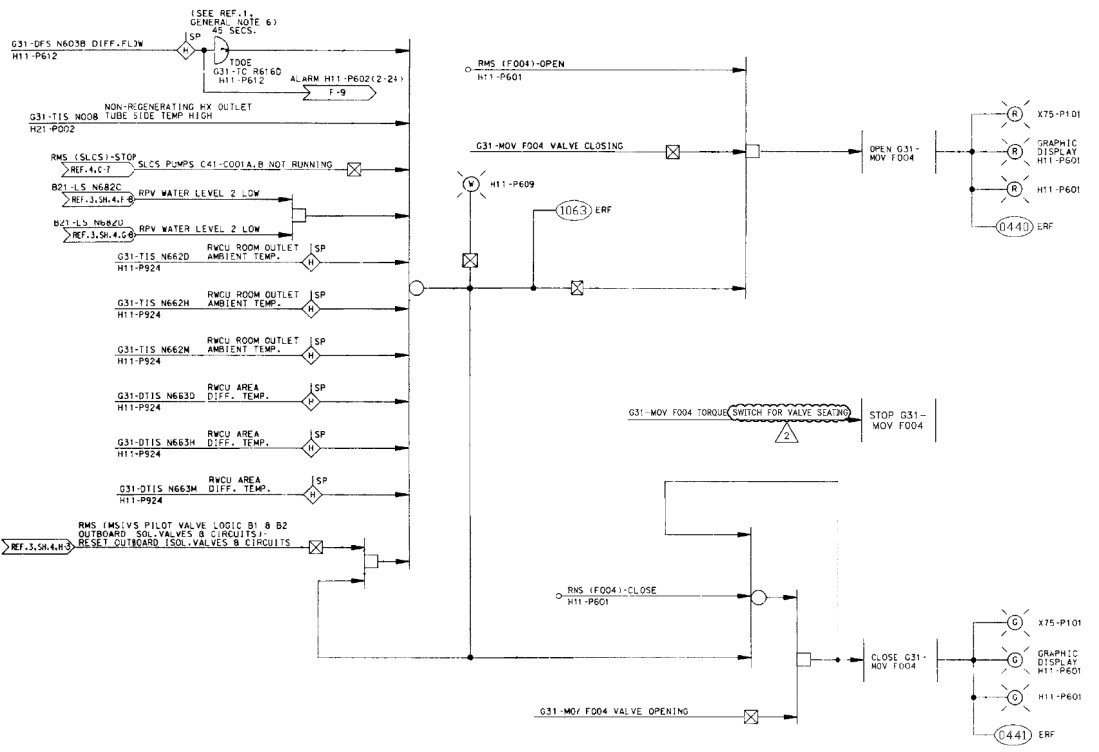
MPL NO. G31-1030	
BECHTEL	
JOB 6511	GATTHE'SBURG, MARYLAND
SOUTHERN SERVICES INC. FOR	
GEORGIA POWER CO., ATLANTA, GA. GENERAL ENGINEERING DEPARTMENT	
EDWIN E. WATSON NUCLEAR PLANT UNIT NO. 1 REACTOR WATER CLEAN UP SYSTEM LOGIC DIAGRAMS SHEET 1 OF 2	
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
OFFSHORE P. NO. 3-18.56	SCALE
ISSUED BY	DATE
LOCATION	SHEET NO.
10-502	H-19963

79661-H

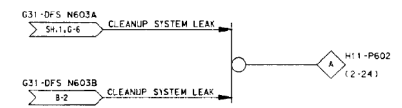
SWITCH DEVELOPMENTS



RMS (F001) LOCATION H11-P602
 RMS (F004) LOCATION H11-P601
 MOMENTARY CONTACTS IN "CLOSE" AND "OPEN" SPRING RETURN TO "NORMAL"



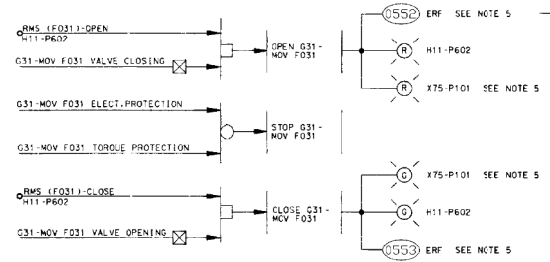
RCU SUCTION CONTAINMENT OUTBOARD ISOLATION GATE VALVE (PCIS VALVE GROUP 5) G31-MOV F004



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

SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM C.E. DRAWING NO. 728F608, SH-1.1, REV. 9 SCG1 ACCESSION DRAWING NO. 515899



**RCU G31-RO D001 BYPASS GLOBE VALVE G31-MOV F031 TYPICAL FOR:
 RCU RETURN ISOL-GLOBE VALVE G31-MOV F042
 RCU FILTER DEMIN. BYPASS GLOBE VALVE G31-MOV F044**

MPL NO. G31-1030 (AccoDry) H19964



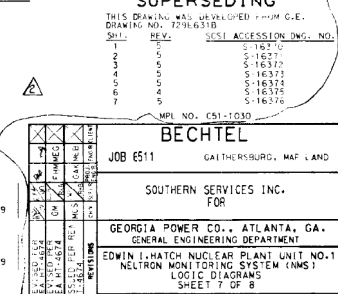
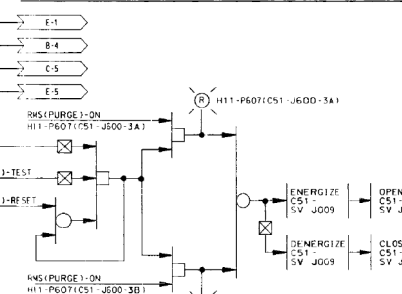
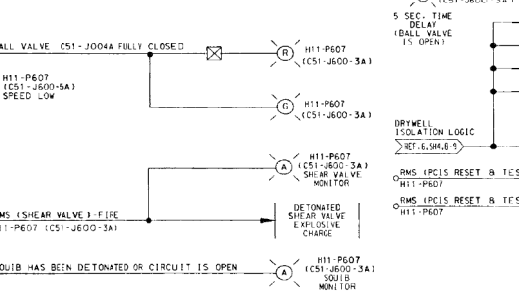
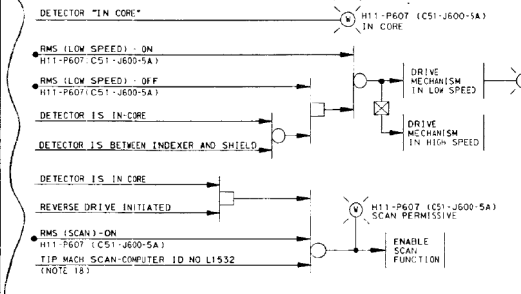
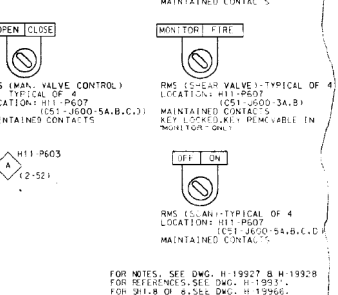
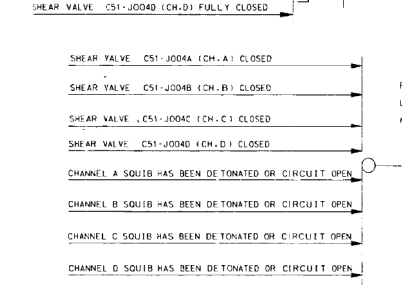
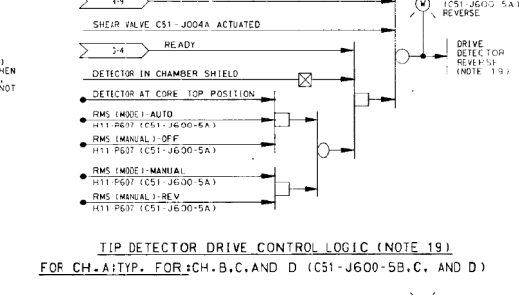
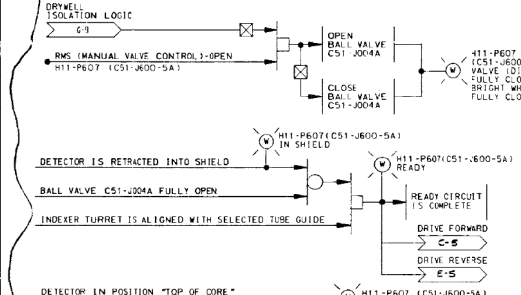
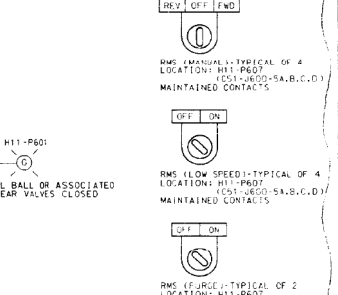
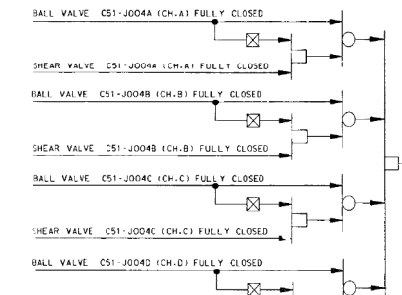
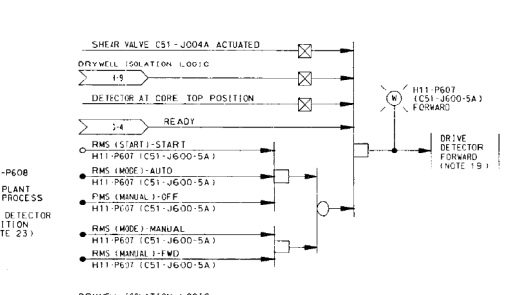
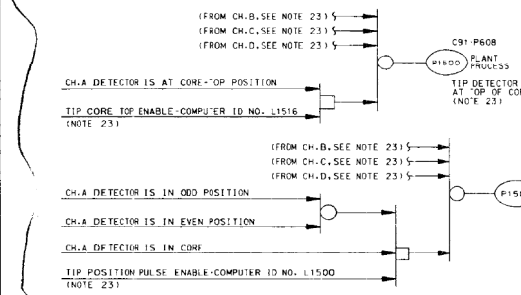
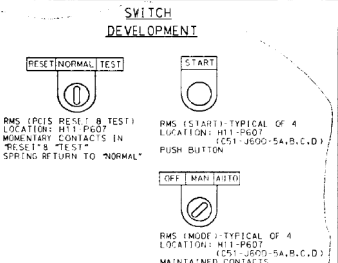
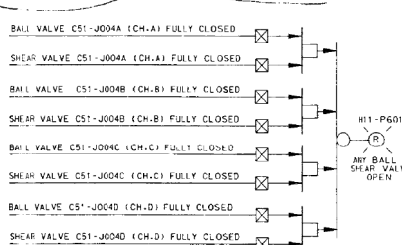
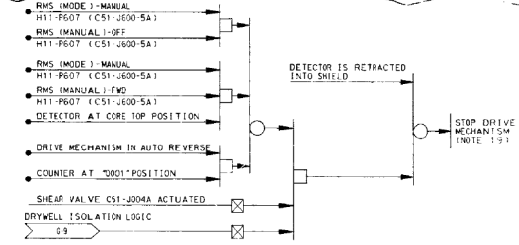
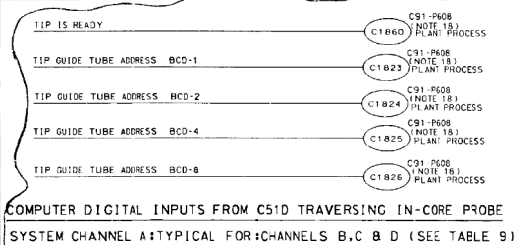
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1
 REACTOR WATER CLEAN UP SYSTEM
 LOGIC DIAGRAMS
 SHEET 2 OF 2

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

NO.	DATE	BY	CHKD.	ISSUED BY	REVISION
D21	JAS	RTW	SV	RENEWBY SVY	REVISED
					11-19-85
					None
					10-502
					H-19964
					2

59661-H



99661-H

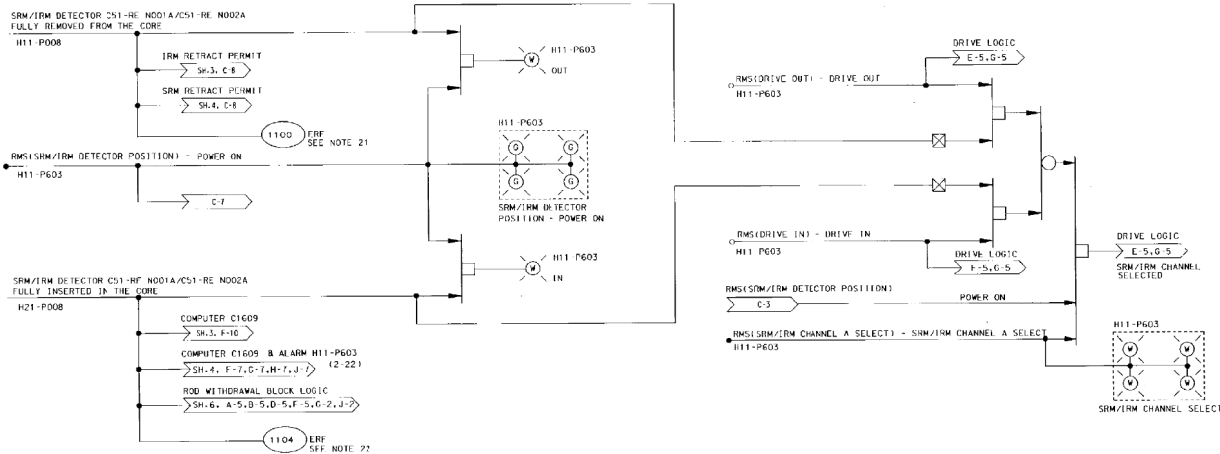


TABLE 10

SRM CHANNEL	MOTOR MODULE	CS1-S001
SRM CHANNEL A	MOTOR MODULE A	CS1-S001 A
SRM CHANNEL B	MOTOR MODULE B	CS1-S001 B
SRM CHANNEL C	MOTOR MODULE C	CS1-S001 C
SRM CHANNEL D	MOTOR MODULE D	CS1-S001 D
SRM CHANNEL E	MOTOR MODULE E	CS1-S001 E
SRM CHANNEL F	MOTOR MODULE F	CS1-S001 F
SRM CHANNEL G	MOTOR MODULE G	CS1-S001 G
SRM CHANNEL H	MOTOR MODULE H	CS1-S001 H
SRM CHANNEL I	MOTOR MODULE I	CS1-S001 I
SRM CHANNEL J	MOTOR MODULE J	CS1-S001 J
SRM CHANNEL K	MOTOR MODULE K	CS1-S001 K
SRM CHANNEL L	MOTOR MODULE L	CS1-S001 L
SRM CHANNEL M	MOTOR MODULE M	CS1-S001 M

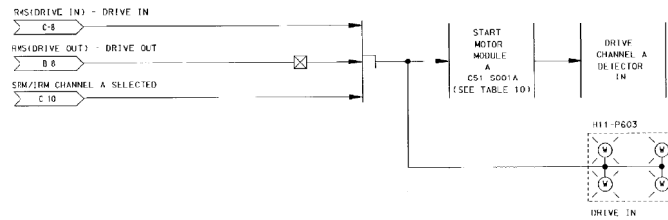
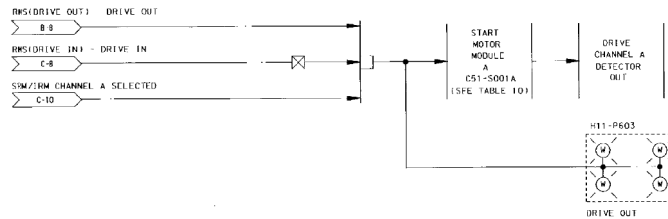
SRM/IRM MOTOR MODULES

TABLE 9

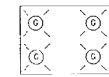
DESCRIPTION	COMPUTER ID NUMBERS			
	CHANNEL A	CHANNEL B	CHANNEL C	CHANNEL D
DRIVE CONTROL UNIT	CS1-J600-5A	CS1-J600-5B	CS1-J600-5C	CS1-J600-5D
TIP MACH SCAN	L1532	L1535	L1534	L1535
TIP POSITION PULSE ENABLE	L1500	L1501	L1502	L1503
TIP CORE TOP ENABLE	L1516	L1517	L1518	L1519
TIP GUIDE TUBE ADDRESS				
BCD-1	C1823	C1827	C1831	C1835
BCD-2	C1824	C1828	C1832	C1836
BCD-4	C1825	C1829	C1833	C1837
BCD-8	C1826	C1830	C1834	C1838
TIP READY	C1860	C1861	C1862	C1863

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

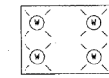
TYPICAL: FOR SRM CHANNELS B,C,D AND IRM CHANNELS B,C,D,E,F,G,H.



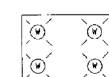
SWITCH DEVELOPMENTS



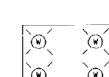
POWER ON
RMS(SRM/IRM DETECTOR POSITION)
LOCATION: H11-P603
4 LAMP BACK LIGHTED MAINTAINED CONTACTS



DRIVE IN
RMS(DRIVE IN)
LOCATION: H11-P603
4 LAMP BACK LIGHTED PUSHBUTTON MOMENTARY CONTACTS



DRIVE OUT
RMS(DRIVE OUT)
LOCATION: H11-P603
4 LAMP BACK LIGHTED PUSHBUTTON MOMENTARY CONTACTS



SRM/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 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 CONTACTS

FOR NOTES, SEE DWG. H-19927 B H-19928 FOR REFERENCES, SEE DWG. H-19931.

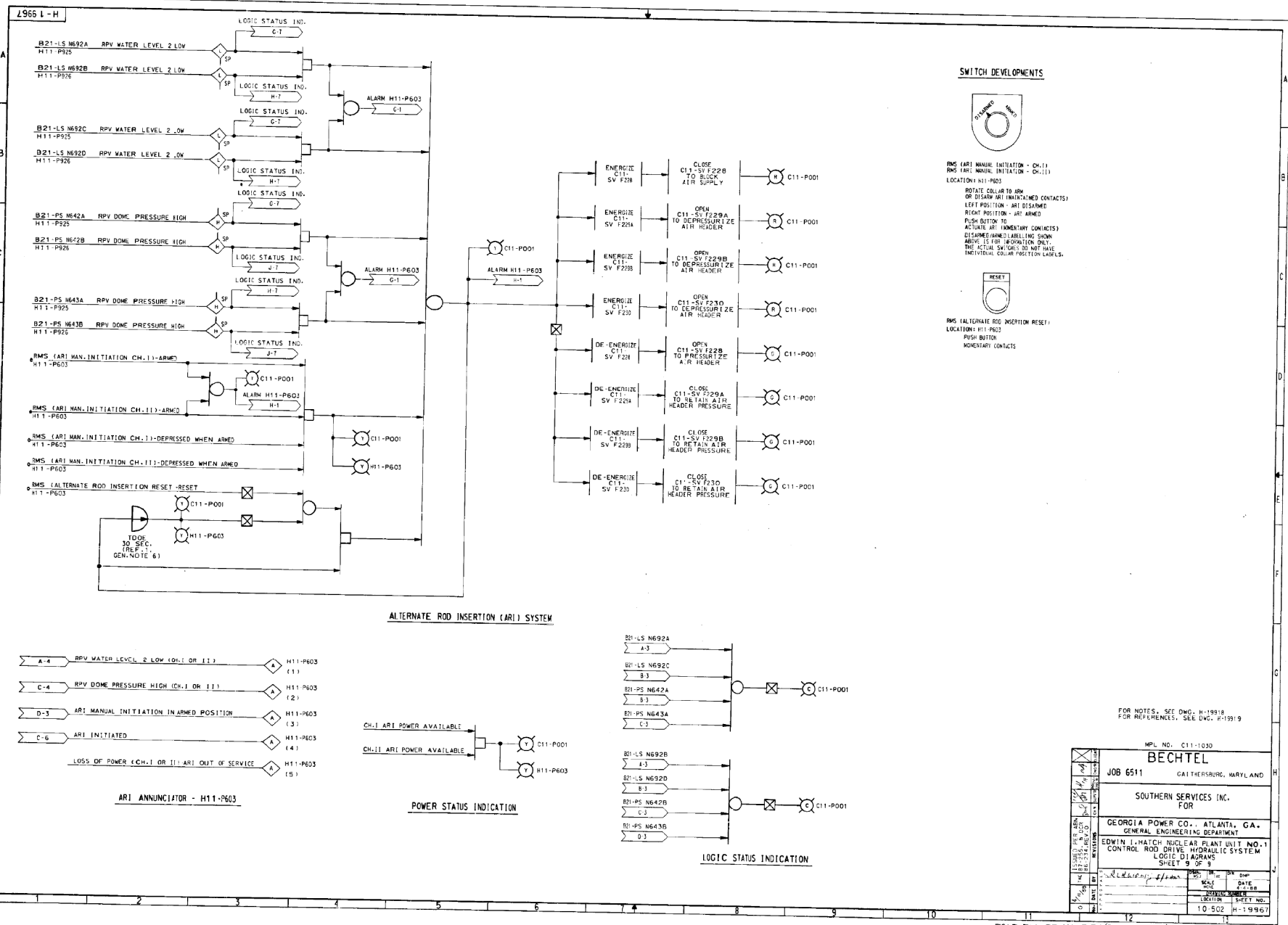
SUPERSEDING

THIS DRAWING WAS DEVELOPED FROM G.E. DRAWING NO. 7286318

SHT.	REV.	CSG ACCESSION DWG. NO.
1	1	S-16370
2	2	S-16371
3	3	S-16372
4	4	S-16373
5	5	S-16374
6	6	S-16375
7	7	S-16376

MPL NO. CS1-1030

BECHTEL	
JOB 6511	GAITHERSBURG, MARYLAND
SOUTHERN SERVICES INC. FOR	
GEORGIA POWER CO., ATLANTA, GA. GENERAL ENGINEERING DEPARTMENT	
EDWIN E. HATCH NUCLEAR PLANT UNIT NO.1 NEUTRON MONITORING SYSTEM (NMS) LOGIC DIAGRAMS SHEET 8 OF 8	
SCALE	DATE
DRAWN BY	CHECKED BY
DATE	SHEET NO.
10-502	H-19966



SWITCH DEVELOPMENTS



RMS (ARI) MANUAL INITIATION - CH. II
 RMS (ARI) MANUAL INITIATION - CH. III
 LOCATION: H11-PE03
 ROTATE COLUMN TO DIS OR DISARM (ARI MAINTAINED CONTACTS)
 LEFT POSITION - ARI DISARMED
 RIGHT POSITION - ARI ARMED
 PUSH BUTTON TO ACTIVATE ARI (MOMENTARY CONTACTS)
 DISARMED (ARMED) LABEL INDICATOR ABOVE IS FOR INFORMATION ONLY. THE ACTUAL SWITCHES DO NOT HAVE INITIAL/CLEAR POSITION LABELS.



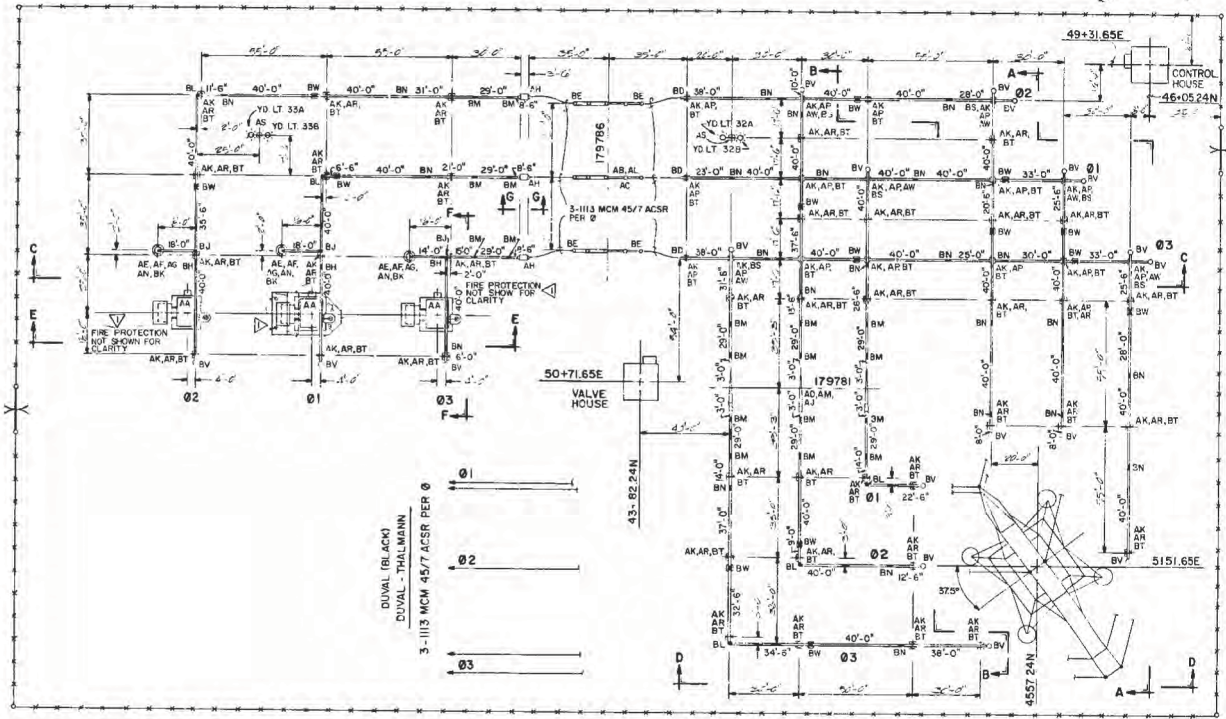
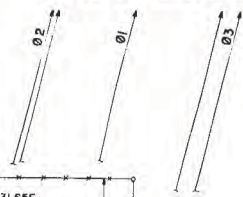
RMS (ALTERNATE ROD INSERTION RESET)
 LOCATION: H11-PE03
 PUSH BUTTON
 MOMENTARY CONTACTS

FOR NOTES, SEE DWG. H-1918
 FOR REFERENCES, SEE DWG. H-1919

MPL NO. C11-1030	
BECHTEL	
JOB 6511	GAITHERSBURG, MARYLAND
SOUTHERN SERVICES INC. FOR	
GEORGIA POWER CO., ATLANTA, GA. GENERAL ENGINEERING DEPARTMENT	
EDWIN H. HATCH NUCLEAR PLANT UNIT NO. 1 CONTROL ROD DRIVE HYDRAULIC SYSTEM LOGIC DIAGRAMS SHEET 9 OF 9	
DESIGNED BY: <i>W. L. ...</i> DRAWN BY: <i>W. L. ...</i> CHECKED BY: <i>W. L. ...</i> DATE: <i>...</i>	SCALE: <i>...</i> SHEET NO.: <i>...</i> LOCATION: <i>...</i> SHEET NO.: <i>...</i>



TO MAIN SWITCHYARD
3-1113 MCM 45/7 ACSR PER Ø



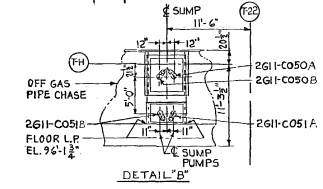
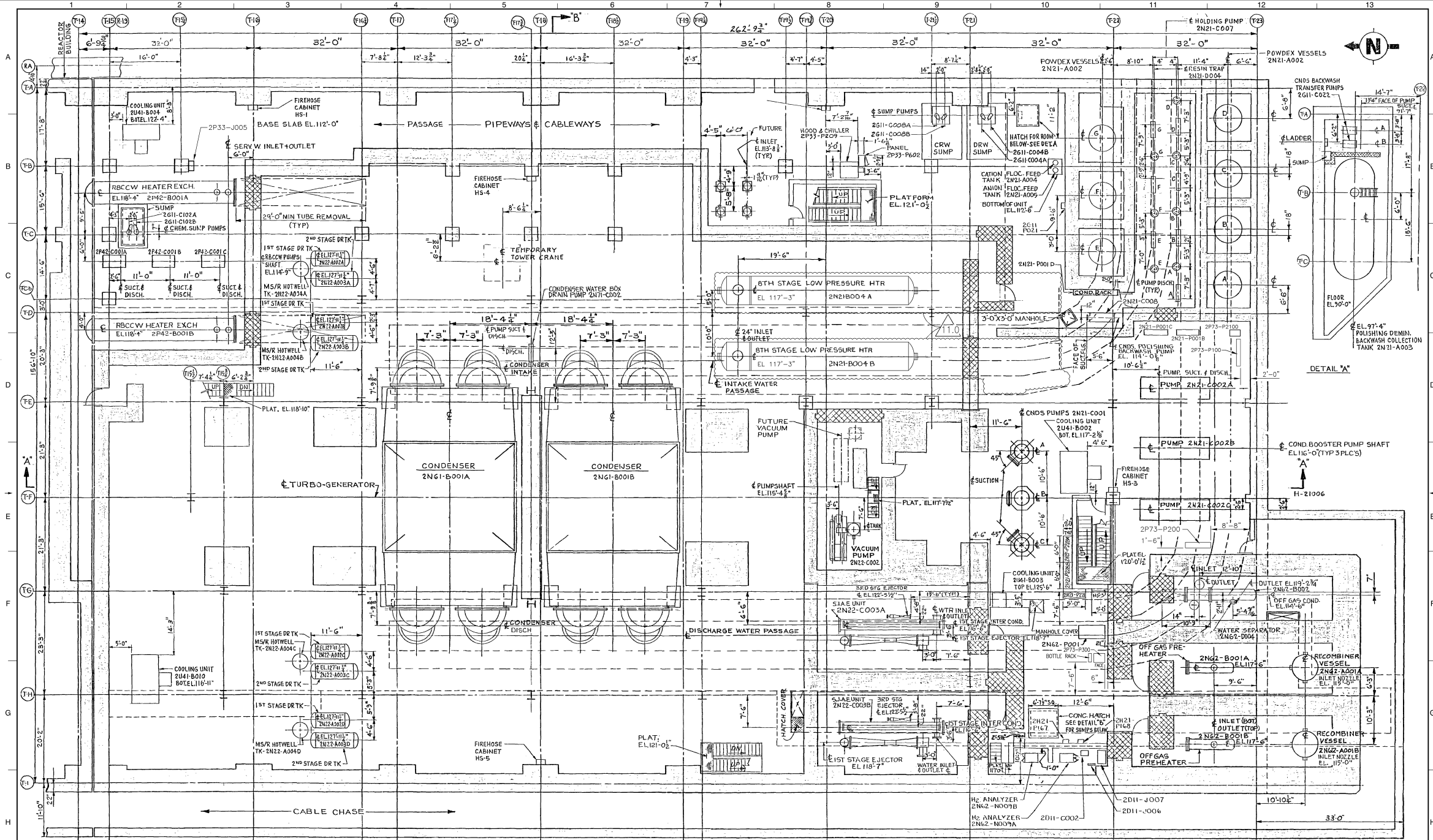
DUVAL (BLACK)
DUVAL - THALMANN
3-1113 MCM 45/7 ACSR PER Ø

Ø1
Ø2
Ø3

REFERENCES:

- 10-502 D-20025 500KV REACTOR SWYD SECTION A-A
- 10-502 D-20026 500KV REACTOR SWYD SECTION B-B
- 10-502 D-20027 500KV REACTOR SWYD SECTION D-D
- 10-502 D-20028 500KV REACTOR SWYD SECTION B DET
- 10-502 H-20191 500KV REACTOR SWYD SECTION C-C
- 10-502 H-20194 500KV REACTOR SWYD SECTION S

INTERPRETATION OF FIRE PROTECTION SYMBOLS	GEORGIA POWER CO., ATLANTA, GA. POWER SUPPLY ENG. AND SERVICES DEPT.	
	HATCH NUCLEAR PLANT UNIT No. 2	
	500KV REACTOR SWYD PLAN	
	DATE: 12-16-81	DRAWING NUMBER: 10-502 H20192



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

Version: 11.0 | Date: 03/08/19
 REVISED PER ABN SNCT16373M050, VER 1.0

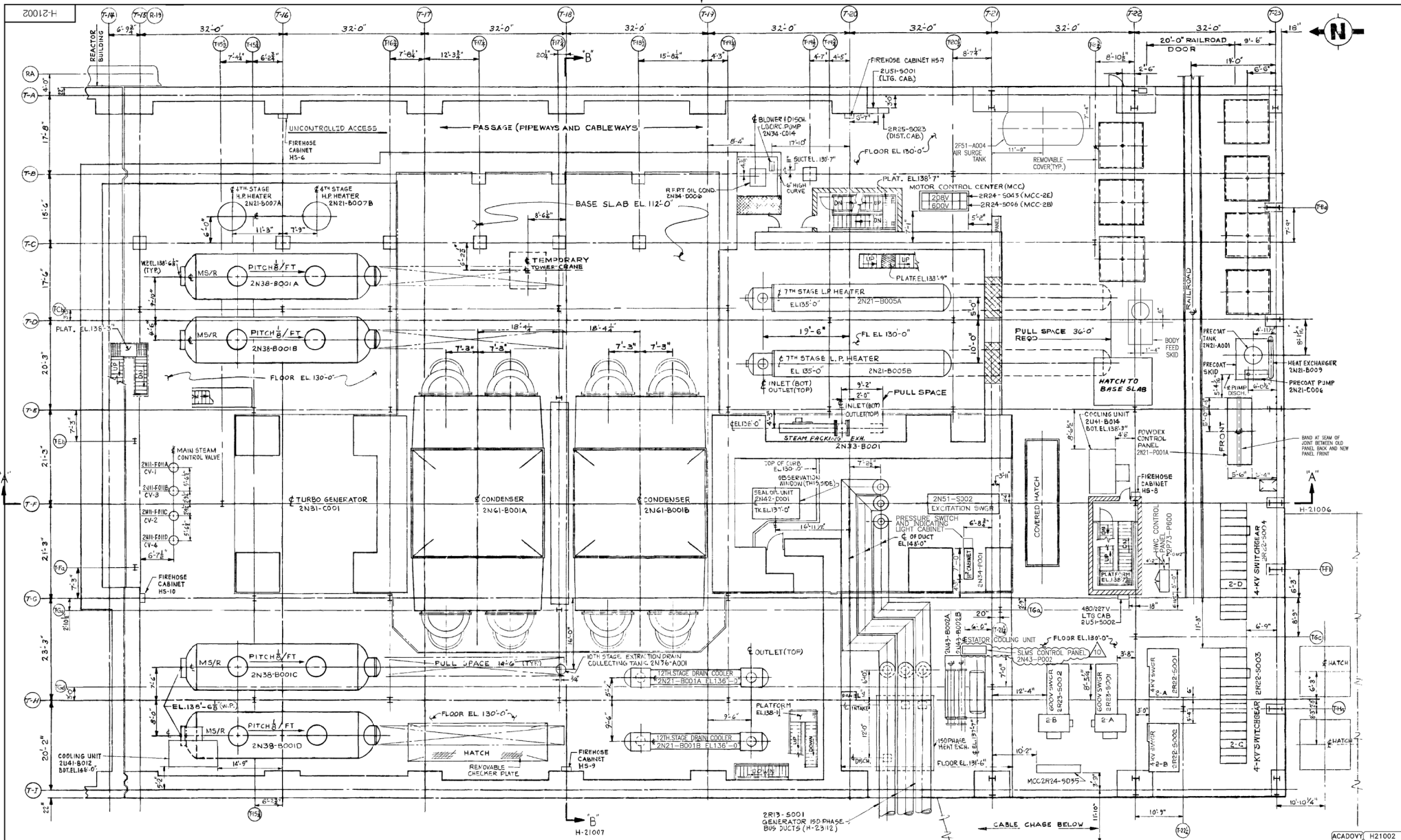
(ACADOVY) H21001

SOUTHERN COMPANY

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

OWNER	DESIGNED	LOCATION	ISSUING NUMBER	VERSION
LMS	RJC			
DATE	SCALE			
10-15-71	1/8"=1'-0"	10-502	H-21001	11.0

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WORK THIS DWG WITH DWGS H-21001, H-21003, H-21004, H-21006, H-21007 & H-21019.

ACAD00VY, H21002

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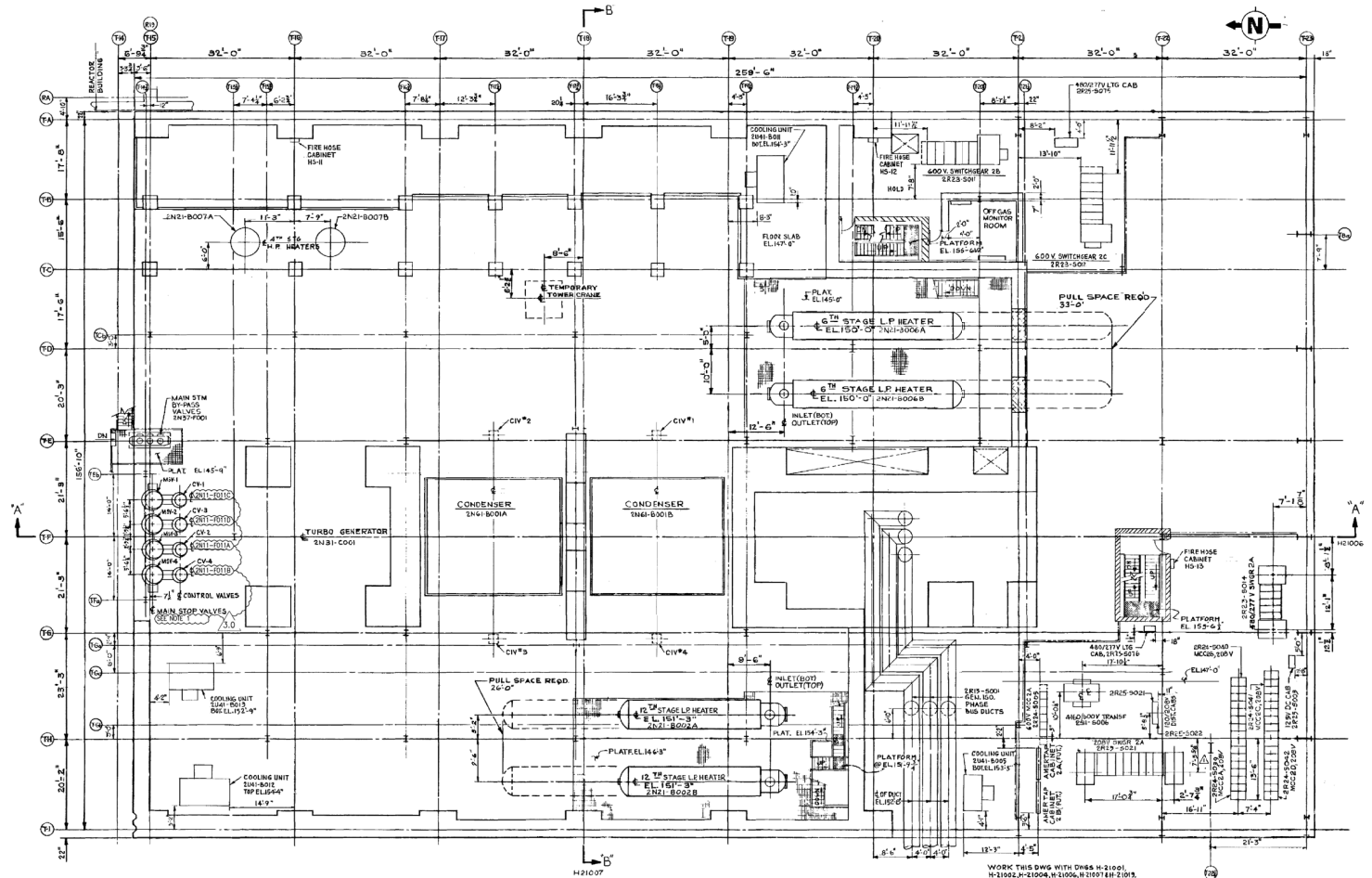
Revision: 10 Date: 8-17-99
 REVISED PER ABN 97-0013-002

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
 GENERAL ARRANGEMENT - TURBINE ROOM
 INTERMEDIATE FLOOR EL. 130'-0"

NO.	DATE	BY	CHKD	APP'D	DESCRIPTION	REVISION
10	8-17-99	JAS	RVB	RVB	REVISED PER ABN 97-0013-002	10

SCALE	DATE	BY	CHKD	APP'D	DESCRIPTION	REVISION
10-502	8-12-94	JAS	RVB	RVB	1/8"=1'-0"	10

6001ZH



NOTES
 1) MASTER STOP VALVES
 MSV-1: 2N11-F030; MSV-3: 2N11-F030A
 MSV-2: 2N11-F030; MSV-4: 2N11-F030B

WORK THIS DWG WITH DWS H-21001
 H-1002, H-21006, H-21006A, H-21011 & H-21013

0VY2000 H21003

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EDWIN I. HATCH NUCLEAR PLANT UNIT No.2
 GENERAL ARRANGEMENT—TURBINE ROOM
 FLOOR SLAB EL. 147'-0"

Version: 3.0 | Date: 02/11/15
 REVISED BY: SNC PER
 68N-103577, VER. 1.0

NO.	DATE	BY	REASON	ISSUED NUMBER	VERSION
None	None	None	None	10-502	H-21003
3.0	02/11/15	JTL	None	None	3.0

13

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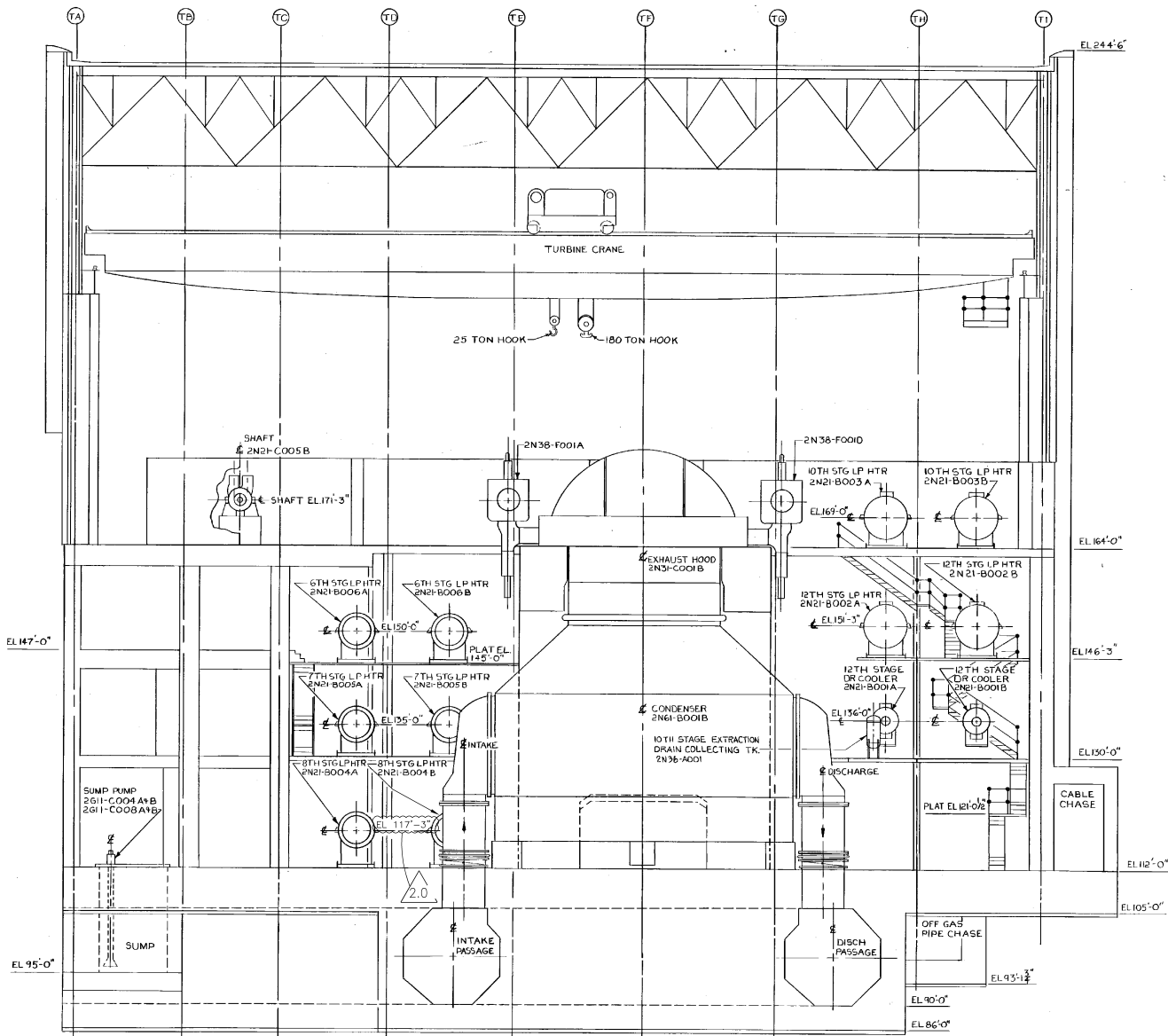
E

F

G

H

J



ELEVATION 'B-B'
LOOKING SOUTH

WORK THIS DWG WITH DWG H-21001, 21002, 21003, 21004, 21006, 21019

ACADOVY H21007



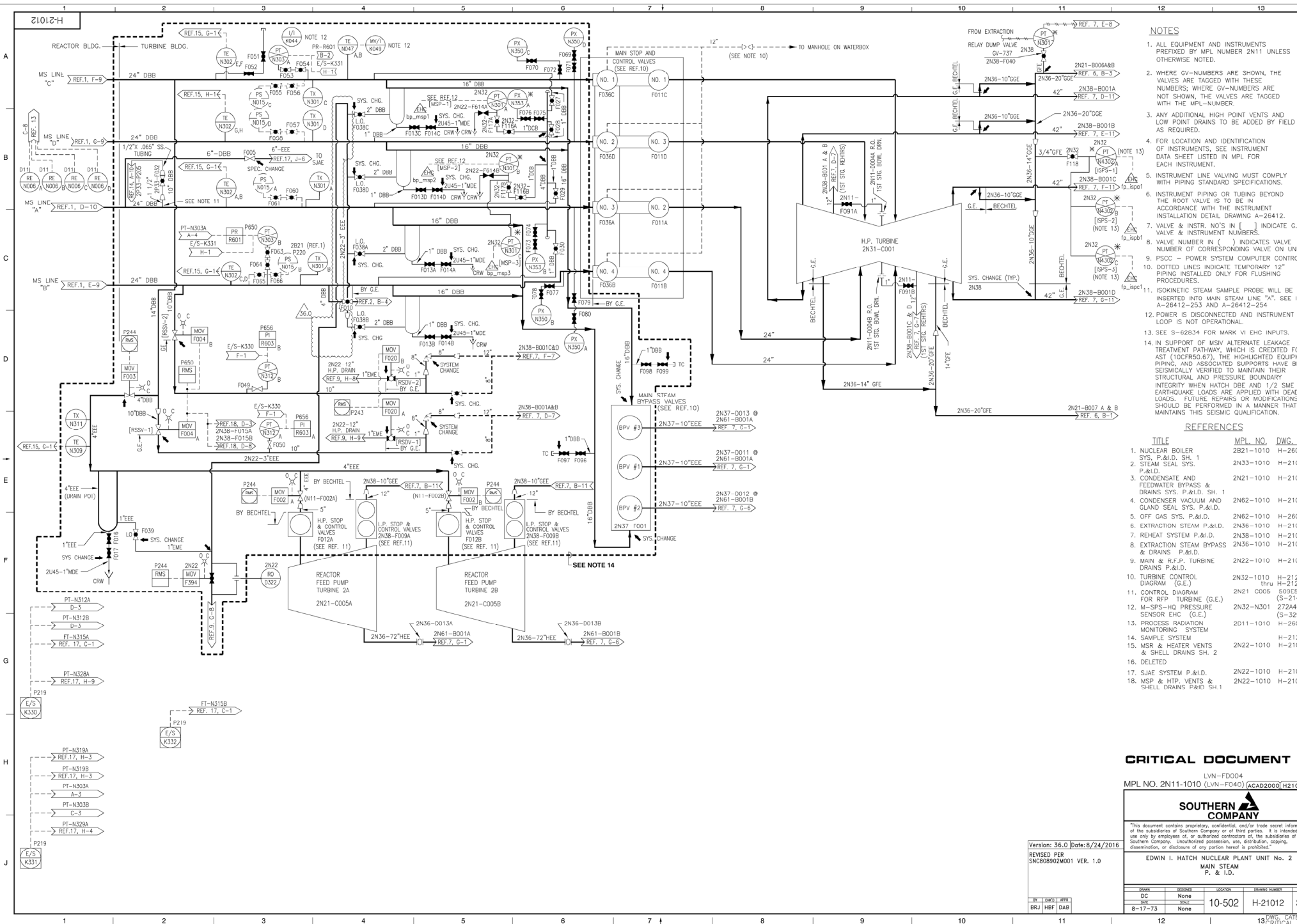
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Version: 2.0 | Date: 03/08/19

REVISED PER ABN
SNCT16373M051, VER 1.0

EDWIN I. HATCH NUCLEAR PLANT UNIT No.2
GENERAL ARRANGEMENT TURBINE BUILDING
ELEVATION "B-B"

BY	CHK'D	APP'R	DATE	SCALE	NO.	REVISED	LOCATION	ISSUING NUMBER	VERSION
JLO	VEP	CTN	07-09-73	1/8"=1'-0"	10-502			H-21007	2.0



- ### NOTES
- ALL EQUIPMENT AND INSTRUMENTS PREFIXED BY MPL NUMBER 2N11 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 THE MPL-NUMBER.
 - 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 MPL FOR EACH INSTRUMENT.
 - INSTRUMENT LINE VALVING MUST COMPLY WITH PIPING STANDARD SPECIFICATIONS.
 - INSTRUMENT PIPING OR TUBING BEYOND THE ROOT VALVE IS TO BE IN ACCORDANCE WITH THE INSTRUMENT INSTALLATION DETAIL DRAWING A-26412.
 - VALVE & INSTR. NO'S IN [] INDICATE G.E. VALVE & INSTRUMENT NUMBERS.
 - VALVE NUMBER IN () INDICATES VALVE NUMBER OF CORRESPONDING VALVE ON UNIT 1.
 - PSSC - POWER SYSTEM COMPUTER CONTROL.
 - DOTTED LINES INDICATE TEMPORARY 12" PIPING INSTALLED ONLY FOR FLUSHING PROCEEDS.
 - ISOKINETIC STEAM SAMPLE PROBE WILL BE INSERTED INTO MAIN STEAM LINE "A". SEE ID'S A-26412-253 AND A-26412-254.
 - POWER IS DISCONNECTED AND INSTRUMENT LOOP IS NOT OPERATIONAL.
 - SEE S-62834 FOR MARK VII ECH INSTRUMENTS.
 - IN SUPPORT OF MSW ALTERNATE LEAKAGE TREATMENT PATHWAY, WHICH IS CREATED 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 SME EARTHQUAKE LOADS ARE APPLIED WITH DEAD LOADS. FUTURE REPAIRS OR MODIFICATIONS SHOULD BE PERFORMED IN A MANNER THAT MAINTAINS THIS SEISMIC QUALIFICATION.

REFERENCES

TITLE	MPL NO.	DWG. NO.
1. NUCLEAR BOILER SYS. P.&I.D. SH. 1	2B21-1010	H-26000
2. STEAM SEAL SYS. P.&I.D.	2N33-1010	H-21046
3. CONDENSATE AND FEEDWATER BYPASS & DRAINS SYS. P.&I.D. SH. 1	2N21-1010	H-21037
4. CONDENSER VACUUM AND GLAND SEAL SYS. P.&I.D.	2N62-1010	H-21030
5. OFF GAS SYS. P.&I.D.	2N62-1010	H-26045
6. EXTRACTION STEAM P.&I.D.	2N36-1010	H-21014
7. REHEAT SYSTEM P.&I.D. & DRAINS P.&I.D.	2N38-1010	H-21013
8. EXTRACTION STEAM BYPASS & DRAINS P.&I.D.	2N36-1010	H-21036
9. MAIN & R.F.P. TURBINE DRAINS P.&I.D.	2N22-1010	H-21031
10. TURBINE CONTROL DIAGRAM (G.E.)	2N32-1010 thru H-21244	
11. CONTROL DIAGRAM FOR RFP TURBINE (G.E.)	2N21 C005	5095560V (S-21436)
12. M-SPS-HQ PRESSURE SENSOR EHC (G.E.)	2N32-N301	2724042 (S-32901)
13. PROCESS RADIATION MONITORING SYSTEM	2D11-1010	H-26011
14. SAMPLE SYSTEM		H-21205
15. MSR & HEATER VENTS & SHELL DRAINS SH. 2	2N22-1010	H-21024
16. DELETED		
17. SJAЕ SYSTEM P.&I.D.	2N22-1010	H-21056
18. MS&P & H.P. VENTS & SHELL DRAINS P.&I.D. SH. 1	2N22-1010	H-21023

CRITICAL DOCUMENT

LVN-FD004
MPL NO. 2N11-1010 (LVN-F040) **ACAD2000** H21012

SOUTHERN COMPANY

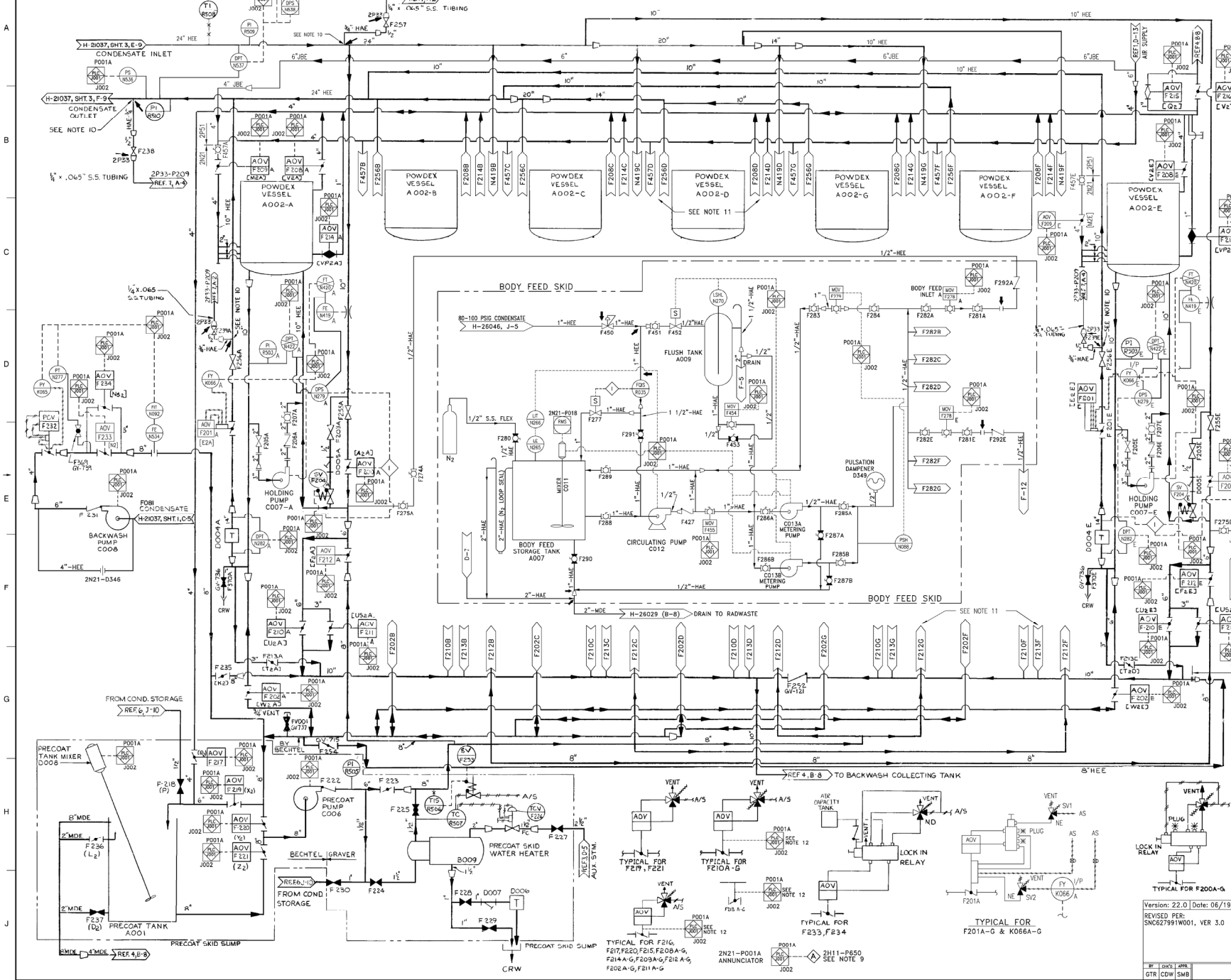
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
MAIN STEAM P. & I.D.

REV	DATE	APPR	ISSUED	LOCATION	DESIGNED BY	REVISION
BRJ	8-17-73	HBF	None	10-502	H-21012	36.0
			None			

Version: 36.0 Date: 8/24/1986
REVISED PER: SNC-80920001 VER. 1.0

13 DWG. CATEGORY: CRITICAL



- ### NOTES
1. ALL EQUIPMENT AND INSTRUMENTS PREFIXED BY MPL NUMBER ENR1 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. 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 INDEX FOR EACH INSTRUMENT DATA SHEET.
 5. INSTRUMENT LINE VALVING MUST COMPLY WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
 6. ALL EQUIPMENT, PIPING, VALVES AND INSTRUMENTATION SUPPLIED BY GRAVER EXCEPT AS NOTED.
 7. VALVE NUMBERS IN BRACKETS INDICATE GRAVER VALVE NUMBERS.
 8. ALL INSTRUMENTS LOCATED ON PANELS 2N21-P001A, B, C, UNLESS OTHERWISE NOTED.
 9. COMMON ALARM ON 2H11-P650 TO INDICATE THAT A COND. POLISHING SYSTEM TROUBLE ALARM ON PANEL P001A HAS SOUNDED.
 10. SAMPLE PROBE WILL BE INSERTED INTO PROCESS. SEE IID A-26412-255.
 11. MPL NUMBERS ARE TYPICAL FOR POWDEX VESSELS A THROUGH G.
 12. VALVE LIMIT SWITCH POSITION AND ANNUNCIATION ARE INDICATED ON THE CRT DISPLAYS IN CONTROL PANEL 2N21-P001A.
 13. SEE ED SNC627991 FOR CHANGES MADE TO 2N21F208A-G VALVES.

- ### LEGEND
- SINGLE COIL SOLENOID VALVE
 - DUAL COIL SOLENOID VALVE
- ### REFERENCES
- | DESCRIPTION | MPL NO | DWG NO |
|--|-----------|----------|
| 1. TURBINE BLDG SERVICE AIR SYSTEM P&ID SHT 2 | 2P51-1010 | H-21029 |
| 2. TURBINE BLDG CONDENSATE & FEEDWATER BY P&ID & DRAINS SYS P&ID SHT 1 | 2N21-1010 | H-21037 |
| 3. REACTOR RADWASTE & TURBINE BLDG AUXILIARY STEAM SYSTEM P&ID | 2P61-1010 | H-26063 |
| 4. RADWASTE SYSTEM | 2G11-1010 | H-26029 |
| 5. AUTOMATIC VALVE LIFT POWDEX SYSTEM | 2N21-A007 | A-18332C |
| 6. REACTOR RAD BLDG COND. STORAGE TRANSPORT P&ID | 2P11-1010 | H-26046 |
| 7. INSTRUMENTS-WATER ANALYSIS TURB. BLDG-SAMPLING | 2P33-1010 | H-21216 |
| 8. GRAVER PLC CONTROL LOGIC DIAGRAMS | 2N21 | S-61668 |

BY BECHTEL
LWN FD038
LWN FV021
MPL NO. 2N21-1010
(FVN-F200)(LWN-F259)

CRITICAL DOCUMENT

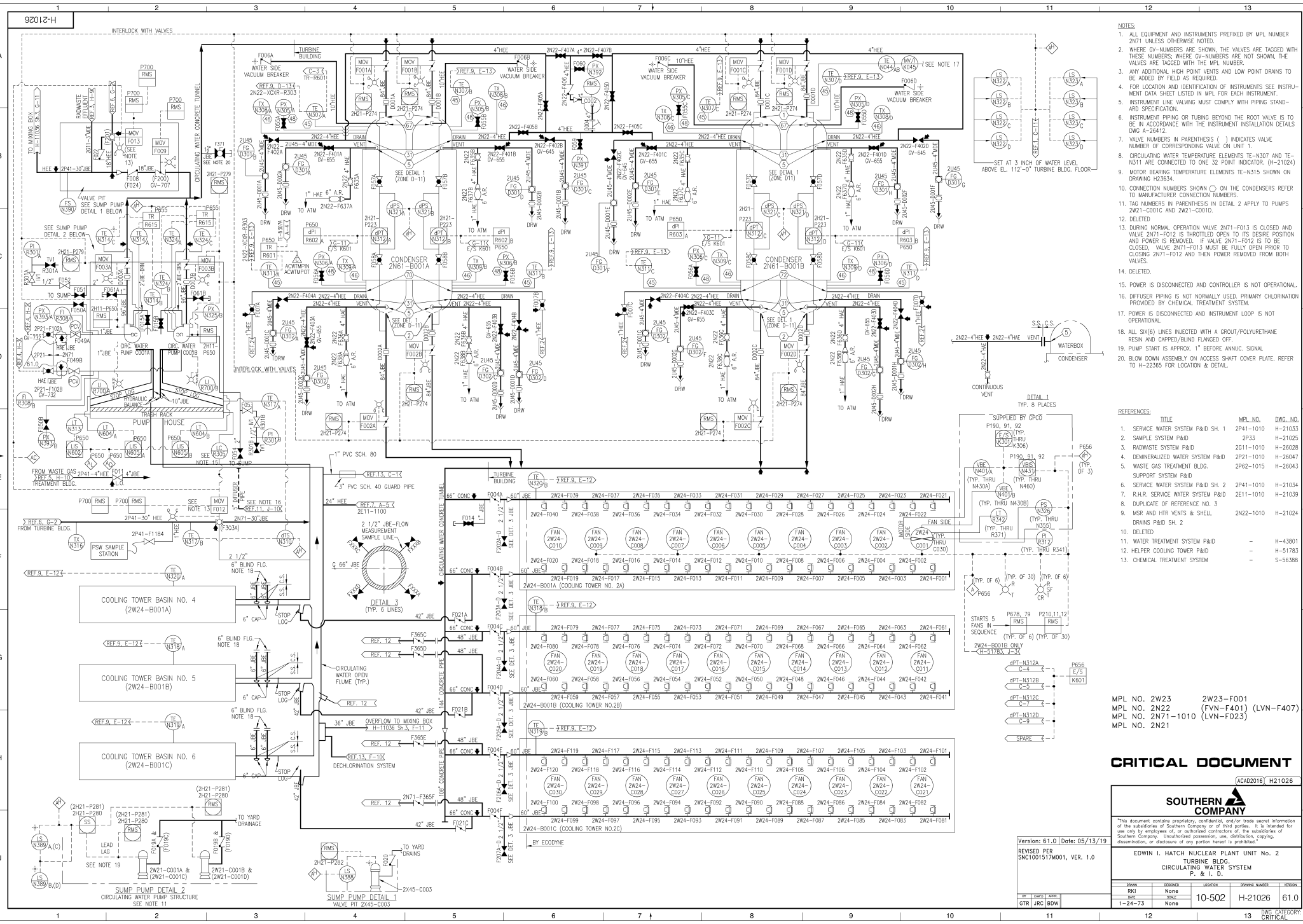
MPL No. 2N21-1010 GVY2000 H21018



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

REV	DATE	APP'D	REVISION
1	9-18-73	None	



- NOTES:**
1. ALL EQUIPMENT AND INSTRUMENTS PREFIXED BY MPL NUMBER 2N11 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. 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 WAVING MUST COMPLY WITH PIPING STANDARD SPECIFICATION.
 6. INSTRUMENT PIPING OR TUBING BEYOND THE ROOT VALVE IS TO BE IN ACCORDANCE WITH THE INSTRUMENT INSTALLATION DETAIL DWG A-26412.
 7. VALVE NUMBERS IN PARENTHESIS () INDICATES VALVE NUMBER OF CORRESPONDING VALVE ON UNIT.
 8. CIRCULATING WATER TEMPERATURE ELEMENTS TE-N307 AND TE-N315 ARE CONNECTED TO ONE 32 POINT INDICATOR. (H-21024)
 9. MOTOR BEARING TEMPERATURE ELEMENTS TE-N315 SHOWN ON DRAWING H23634.
 10. INSTRUMENT NUMBERS SHOWN ON THE CONDENSERS REFER TO MANUFACTURER CONNECTION NUMBERS.
 11. TAG NUMBERS IN PARENTHESIS IN DETAIL 2 APPLY TO PUMPS 2W21-C001C AND 2W21-C001D.
 12. DELETED.
 13. 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.
 14. DELETED.
 15. POWER IS DISCONNECTED AND CONTROLLER IS NOT OPERATIONAL. DIFFUSER PIPING IS NOT NORMALLY USED. PRIMARY CHLORINATION PROVIDED BY CHEMICAL TREATMENT SYSTEM.
 16. POWER IS DISCONNECTED AND INSTRUMENT LOOP IS NOT OPERATIONAL.
 17. ALL SKM (S) LINES INSTALLED WITH A DROUT/POLYURETHANE RESIN AND CAPPED/BLIND FLANGED OFF.
 18. PUMP START IS APPROX. 1" BEFORE ANIMAL. SIGNAL
 19. BLOW DOWN ASSEMBLY ON ACCESS SHAFT COVER PLATE. REFER TO H-22365 FOR LOCATION & DETAIL.

- REFERENCES:**
- | TITLE | MPL NO. | DWG. NO. |
|--|-----------|----------|
| 1. SERVICE WATER SYSTEM P&ID SH. 1 | 2P41-1010 | H-21033 |
| 2. SAMPLE SYSTEM P&ID | 2P33 | H-21025 |
| 3. RADWASTE SYSTEM P&ID | 2G11-1010 | H-26028 |
| 4. DEMINERALIZED WATER SYSTEM P&ID | 2P21-1010 | H-26047 |
| 5. WASTE GAS TREATMENT BLDG. SUPPORT SYSTEM P&ID | 2P62-1015 | H-26043 |
| 6. SERVICE WATER SYSTEM P&ID SH. 2 | 2P41-1010 | H-21034 |
| 7. R.H.R. SERVICE WATER SYSTEM P&ID | 2E11-1010 | H-21039 |
| 8. COMPARTMENT OF REFERENCE NO. 3 | | |
| 9. MSR AND HTR VENTS & SHELL DRAINS P&ID SH. 2 | 2N22-1010 | H-21024 |
| 10. DELETED | | |
| 11. WATER TREATMENT SYSTEM P&ID | | H-43901 |
| 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

AC402016 H21026



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Version: 61.0 Date: 05/13/19

REVISED PER SNG100157K001, VER. 1.0

ISSUED	BY	CHKD	APPR	ISSUED	ISSUED	ISSUED	ISSUED
10-00	RKI		None	10-00	None	10-502	H-21026 61.0
1-24-73			None				

EDWIN I. HATCH NUCLEAR PLANT UNIT NO. 2
 TURBINE BLDG.
 CIRCULATING WATER SYSTEM
 P. & I. D.

DWG. CATEGORY: CRITICAL

ELEKTRONIKON PANEL

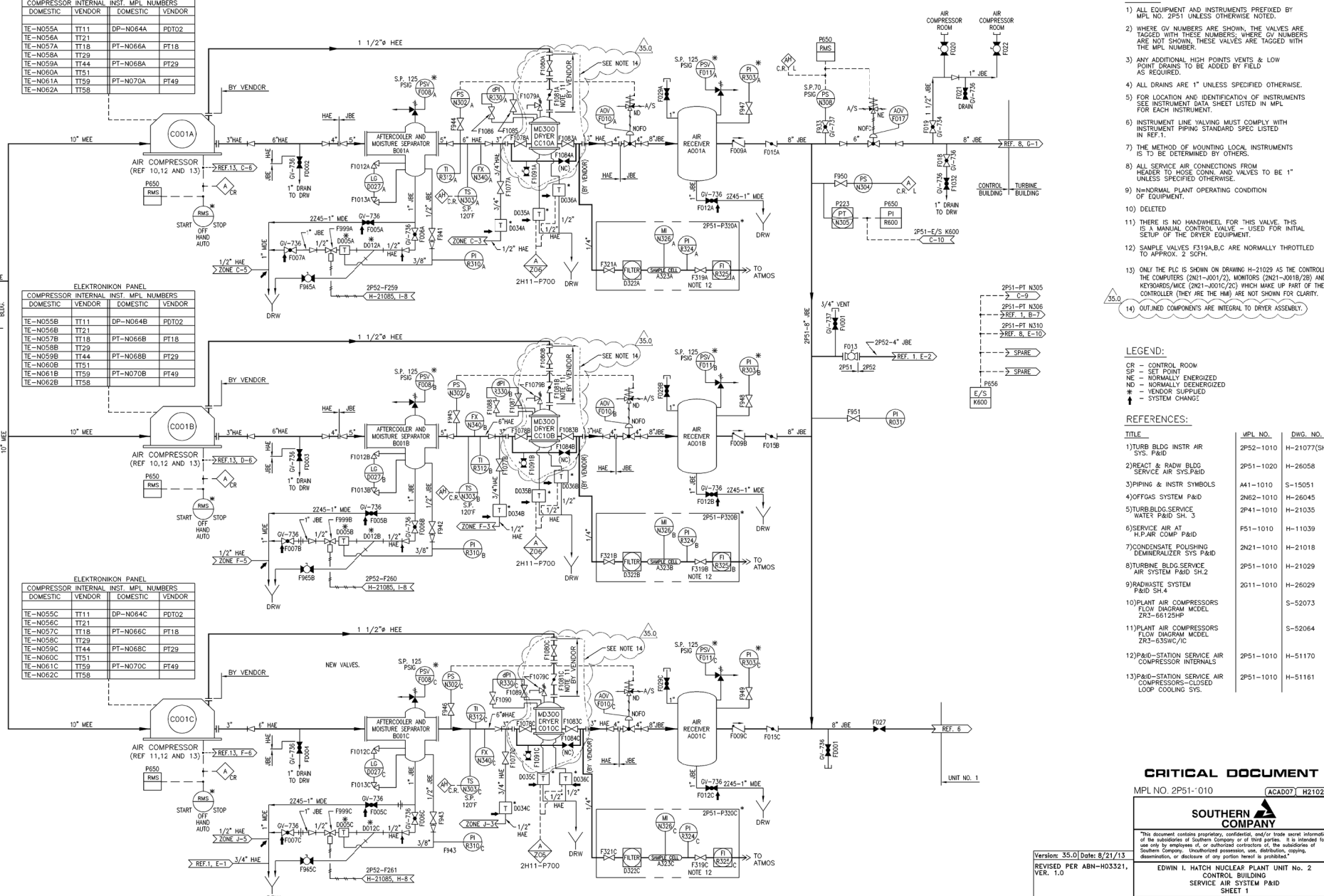
COMPRESSOR	INTERNAL INST.	MPL NUMBERS	
DOMESTIC	VENDOR	DOMESTIC	VENDOR
TE-N055A	TT11	DP-N064A	PDT02
TE-N056A	TT21	PT-N066A	PT18
TE-N057A	TT18	PT-N066A	PT18
TE-N058A	TT29		
TE-N059A	TT44	PT-N068A	PT29
TE-N060A	TT51		
TE-N061A	TT59	PT-N070A	PT49
TE-N062A	TT58		

ELEKTRONIKON PANEL

COMPRESSOR	INTERNAL INST.	MPL NUMBERS	
DOMESTIC	VENDOR	DOMESTIC	VENDOR
TE-N055B	TT11	DP-N064B	PDT02
TE-N056B	TT21	PT-N066B	PT18
TE-N057B	TT18	PT-N066B	PT18
TE-N058B	TT29		
TE-N059B	TT44	PT-N068B	PT29
TE-N060B	TT51		
TE-N061B	TT59	PT-N070B	PT49
TE-N062B	TT58		

ELEKTRONIKON PANEL

COMPRESSOR	INTERNAL INST.	MPL NUMBERS	
DOMESTIC	VENDOR	DOMESTIC	VENDOR
TE-N055C	TT11	DP-N064C	PDT02
TE-N056C	TT21	PT-N066C	PT18
TE-N057C	TT18	PT-N066C	PT18
TE-N058C	TT29		
TE-N059C	TT44	PT-N068C	PT29
TE-N060C	TT51		
TE-N061C	TT59	PT-N070C	PT49
TE-N062C	TT58		



- 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 STANDARD SPEC LISTED IN REF. 1.
 - 7) THE METHOD OF MOUNTING 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 (2N21-001/2), 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
 - ND - 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	F51-1010	H-11039
7) CONDENSATE POLISHING 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-PLUSED LOOP COOLING SYS.	2P51-1010	H-51161

CRITICAL DOCUMENT

MPL NO. 2P51-010 (ACAD07) H21028



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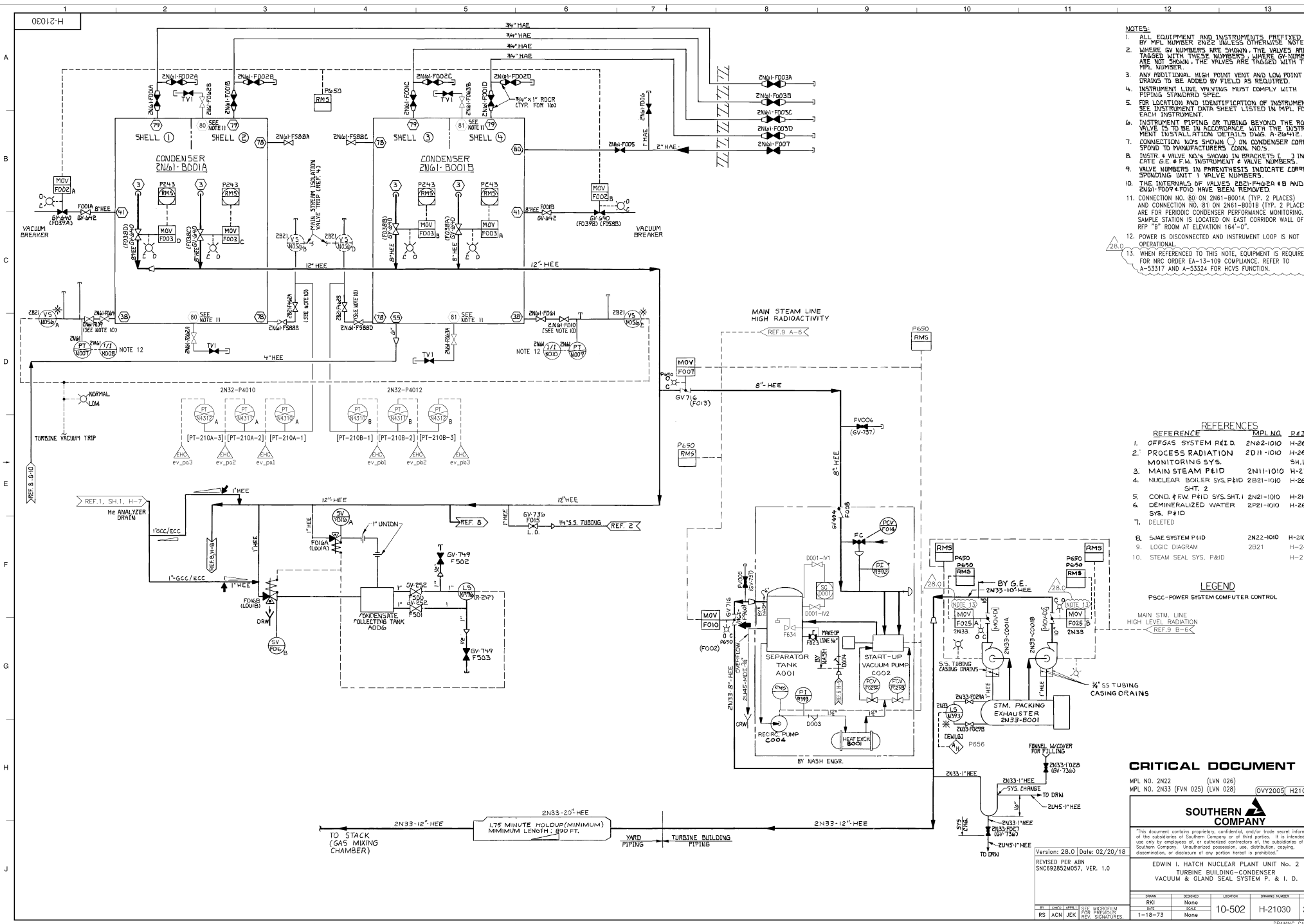
EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
CONTROL BUILDING
SERVICE AIR SYSTEM P&ID
SHEET 1

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

DATE	BY	CHK	REV.	DESCRIPTION
11-08-72				None

NO.	DATE	BY	CHK	REV.	DESCRIPTION
10-502					H-21028 35.0

DRAWING CATEGORY: CRITICAL



- NOTES:**
1. ALL EQUIPMENT AND INSTRUMENTS PREFIxed BY MPL NUMBER EN22 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. ANY ADDITIONAL HIGH POINT VENT AND LOW POINT DRAINS TO BE ADDED BY FIELD AS REQUIRED.
 4. INSTRUMENT LINE VALVING MUST COMPLY WITH PIPING STANDARD SPEC.
 5. FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS SEE INSTRUMENT DATA SHEET LISTED IN MPL FOR EACH INSTRUMENT.
 6. INSTRUMENT PIPING OR TUBING BEYOND THE ROOT VALVE IS TO BE IN ACCORDANCE WITH THE INSTRUMENT INSTALLATION DETAILS DIAG. A-2041E.
 7. CONNECTION NOS. SHOWN (C) ON CONDENSER CORRESPOND TO MANUFACTURERS' CONN. NOS.
 8. INSTR. 4 VALVE NOS. SHOWN IN BRACKETS (S, J) INDICATE G.E. P.T.A. INSTRUMENT 4 VALVE NUMBERS.
 9. VALVE NUMBERS IN PARENTHESES INDICATE CORRESPONDING UNIT 1 VALVE NUMBERS.
 10. THE INTERVALS OF VALVES 2N01-F002R 4B AND 2N01-F009 4F010 HAVE BEEN REMOVED.
 11. CONNECTION NO. 80 ON 2N01-B001A (TYP. 2 PLACES) AND CONNECTION NO. 81 ON 2N01-B001B (TYP. 2 PLACES) ARE FOR PERIODIC CONDENSER PERFORMANCE MONITORING. SAMPLE STATION IS LOCATED ON EAST CORRIDOR WALL OF RFP 'B' ROOM AT ELEVATION 164'-0".
 12. POWER IS DISCONNECTED AND INSTRUMENT LOOP IS NOT OPERATIONAL.
 13. WHEN REFERENCED TO THIS NOTE, EQUIPMENT IS REQUIRED FOR NRC ORDER EA-13-109 COMPLIANCE. REFER TO A-53317 AND A-53324 FOR HCVS FUNCTION.

REFERENCES

REFERENCE	MPL NO.	REV. I.D.
1. OFFGAS SYSTEM P&ID	2N02-1010	H-26045
2. PROCESS RADIATION MONITORING SYS.	2D11-1010	H-26011
3. MAIN STEAM P&ID	2N11-1010	H-21012
4. NUCLEAR BOILER SYS. P&ID	2B21-1010	H-26011
5. COND. F.W. P&ID SYS. SHT. 1	2N21-1010	H-21037
6. DEMINERALIZED WATER SYS. P&ID	2P21-1010	H-26047
7. DELETED		
8. S.W.A.E. SYSTEM P&ID	2N22-1010	H-21056
9. LOGIC DIAGRAM	2B21	H-24705
10. STEAM SEAL SYS. P&ID		H-21046

LEGEND
 PSCC-POWER SYSTEM COMPUTER CONTROL
 MAIN STM. LINE HIGH LEVEL RADIATION REF. 9 B-6<

CRITICAL DOCUMENT

MPL NO. 2N22 (LVN 028)
 MPL NO. 2N33 (FVN 025) (LVN 028) (GVY2005) H21030

SOUTHERN COMPANY

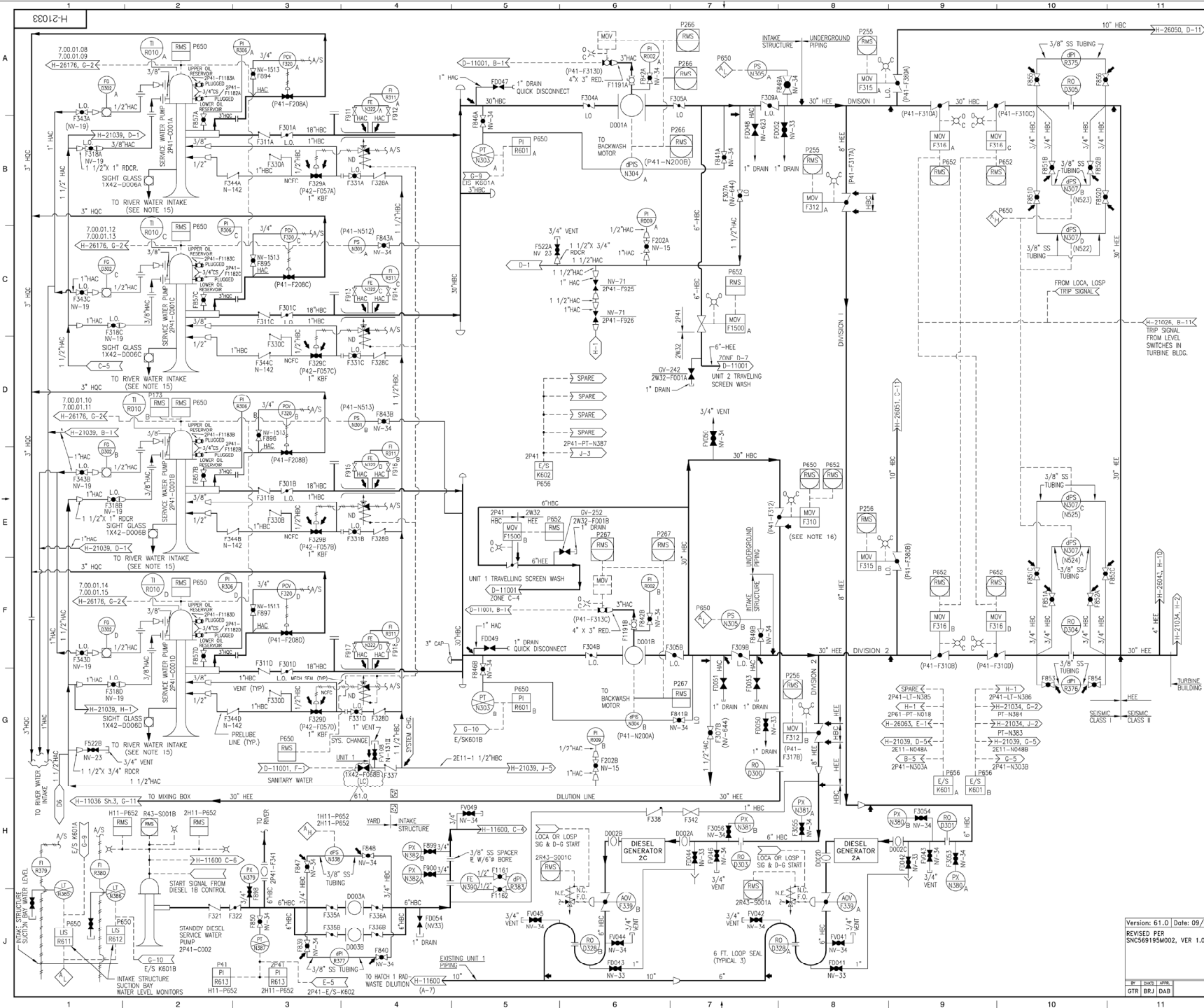
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
 TURBINE BUILDING-CONDENSER
 VACUUM & GLAND SEAL SYSTEM P. & I. D.

NO.	DATE	BY	REVISION	LOCATION	REVISED NUMBER	SPONSOR
1	1-18-73	None				

Version: 28.0 | Date: 02/20/18
 REVISED PER AEN SNC692852M057, VER. 1.0

NO.	DATE	BY	REVISION	LOCATION	REVISED NUMBER	SPONSOR
1	1-18-73	None				



- NOTES:**
1. ALL EQUIPMENT AND INSTRUMENTS ARE PREFIXED BY MPL NUMBER 2P41 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. 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 STANDARD SPECIFICATION.
 6. INSTRUMENT PIPING OR TUBING BEYOND THE ROOT VALVE IS TO BE IN ACCORDANCE WITH THE INSTRUMENT INSTALLATION DETAILS DRAWING A-26412.
 7. VALVE AND INSTRUMENT NUMBERS IN PARENTHESES INDICATES VALVE OR INSTRUMENT NUMBER OF CORRESPONDING VALVE OR INSTRUMENT ON UNIT 1.
 8. ALL SERVICE WATER CONNECTIONS FROM HEADER TO HOSE CONNECTIONS AND VALVES TO BE 1" UNLESS SPECIFIED OTHERWISE.
 9. ON A L.O.S.P. VALVES F316 A, B, C, & D CLOSE AUTOMATICALLY ISOLATING THE TURBINE BLDG. ONCE IT IS DETERMINED THAT THERE IS NO PIPE BREAK IN THE TURBINE BLDG. VALVES F316 A, B, C, & D ARE RE-OPENED.
 10. VALVES ON THIS DRAWING ARE NUMBERED: FV041 THRU FV060 FOR VENT VALVES; FV041 THRU FV060 FOR DRAIN VALVES.
 11. THIS SECTION OF PIPING IS TO BE REMOVED DURING INSTALLATION OF COOLERS 2Z41-8020A & B.
 12. RO-D329 IS A COMBINATION RESTRICTION ORIFICE AND SPACER PLATE. SPACER PLATE TO BE INSTALLED WHEN 2P41-C002 IS ALIGNED. RESTRICTION ORIFICE TO BE ALIGNED WHENEVER UNIT #1 SERVICE WATER SYSTEM IS ALIGNED.
 13. DELETED.
 14. MIN FLOW VALVES 2P41-F320-A ARE INSTALLED SUCH THAT FLOW ASSISTS THE VALVE CLOSED.
 15. ALL PSW PUMPS HAVE 1" PIPING EXTENSION ON SEAL LEAK OFF LINES WHICH ATTACH TO PUMP COLUMN WITH BRACKETS AND EXTEND TOWARD BASE OF PUMP.
 16. VALVE CLOSED AND BREAKER OFF POSTED ON 2H11-P650 AND INTAKE MCC 2R24-5010 FR 2A.

CRITICAL DOCUMENT

MPL No. 2P41-1010 ACAD2000 H21033



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EDWIN I. HATCH NUCLEAR PLANT UNIT No.2
TURBINE BUILDING
SERVICE WATER SYSTEM - P.&I.D. SHEET 1

Version: 61.0 Date: 09/06/16

REVISED PER SNC5619SM002, VER 1.0

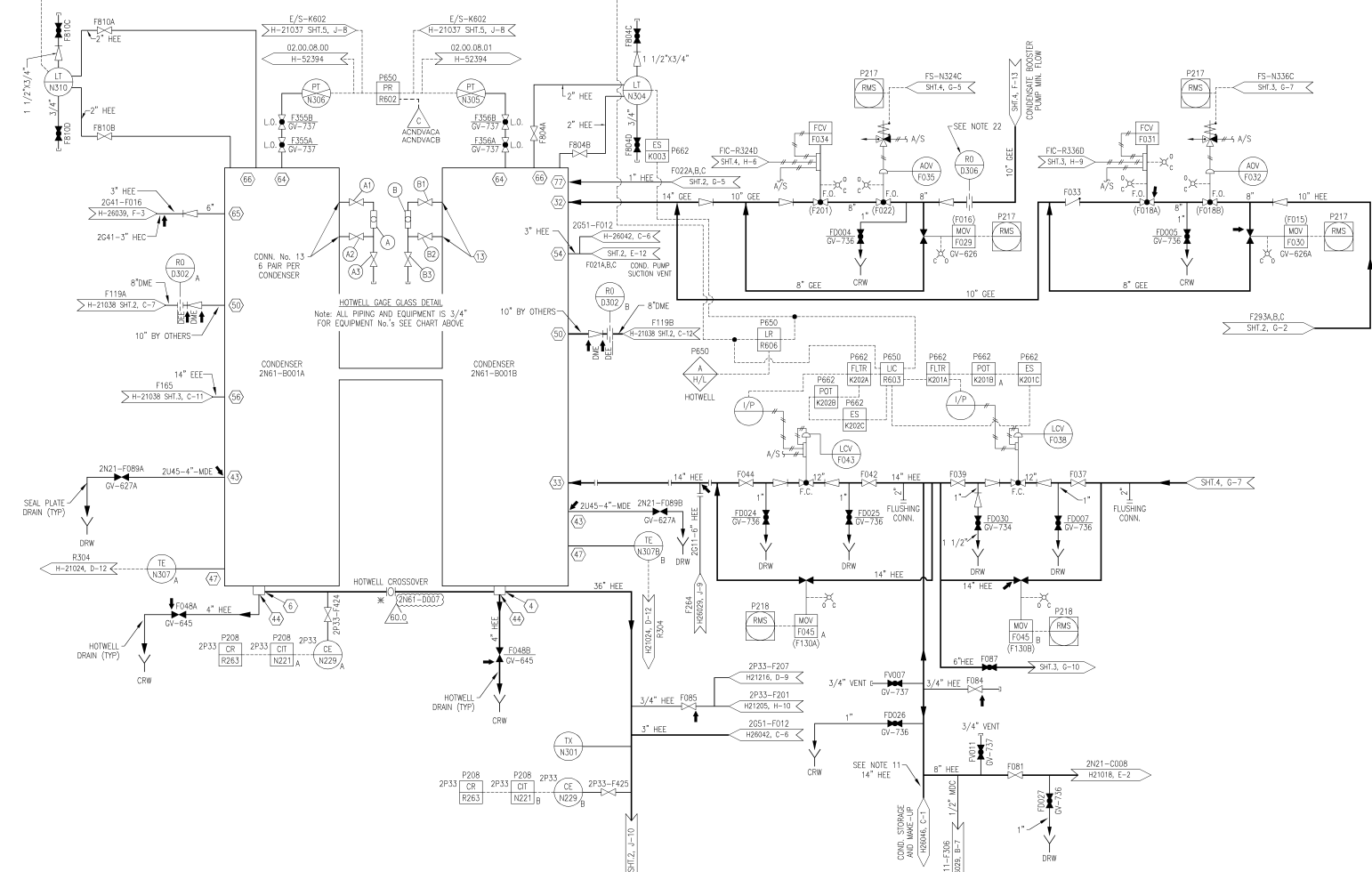
DATE	REVISION	LOCATION	ISSUED BY	REVISION
D.C.				
4-10-73	None	10-502	H-21033	61.0

NO. CATEGORY: CRITICAL

HOTWELL GAGE GLASS EQUIPMENT NUMBERS

2N61-B001A				2N61-B001B			
A'	A1'	A2'	A3'	B'	B1'	B2'	B3'
0001A	F021	F022	F033	0001B	F043	F044	F045
0002A	F024	F025	F026	0002B	F046	F047	F048
0003A	F027	F028	F029	0003B	F049	F050	F051
0004A	F030	F031	F032	0004B	F052	F053	F054
0005A	F033	F034	F035	0005B	F055	F056	F057
0006A	F036	F037	F038	0006B	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 CV-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 PARENTHESIS INDICATE THE CORRESPONDING VALVE & INSTRUMENT NUMBERS FOR UNIT 1.
 - VALVE F014 SUPPLIED BY CRAVER, INC. B2 VALVES F011 & F012 DISKS HAVE BEEN REMOVED RENDERING THEM INOPERABLE.
 - 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 APPLICABLE LINE.
 - SAMPLE PROBE WILL BE INSERTED INTO PROCESS. SEE I/O A-26412-252.
 - SUPPLIED BY GPC FIELD.
 - DELETED.
 - INDICATING LIGHTS ARE PROVIDED ON PANEL 2H21-F308, TO SHOW PRESSURE SWITCH FAIL.
 - INDICATING LIGHTS ARE PROVIDED ON PANEL 2H21-F307, TO SHOW PRESSURE SWITCH FAIL.
 - INDICATING LIGHTS ARE PROVIDED ON J BOX 2UM5011, TO SHOW PRESSURE SWITCH FAIL.
 - INDICATING LIGHTS ARE PROVIDED ON J BOX 2UM5012, TO SHOW PRESSURE SWITCH FAIL.
 - INDICATING LIGHTS ARE PROVIDED ON J BOX 2UM5013, 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 1/16" ± 1/16" BELOW TOP OF PIPE. ID. THE VENT HOLE ALLOWS VENTING OF NON-CONDENSIBLE GASES PER ENG-009 NFRD. LOG NO. 2N21-0306-001 AND CALCULATION SINH 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-J001/2), MONITORS (2N21-J001B/2B AND KEYBOARDS/MICE (2N21-J001C/2C) WHICH MAKE UP PART OF THE CONTROLLER (THEY ARE THE HW) ARE NOT SHOWN FOR CLARITY.
 - STARTUP STRAINERS WERE REMOVED.

- REFERENCES:
- | Description | MPL No. | Dep. No. |
|--|-----------|----------|
| 1. FEEDWATER CONTROL SYS. DESIGN SPEC | 2C32-4010 | S-25321 |
| 2. NUCLEAR BOILER SYS. P&ID SH. 1 | 2B21-1010 | H-26000 |
| 3. CONDENSATE POLISHING DEMINERALIZER SYSTEM P&ID | 2N21-1010 | H-21018 |
| 4. REACTOR & RADWASTE BLDGS - CONDENSATE STORAGE & TRANSFER SYS P&ID | 2P11-1010 | H-26046 |
| 5. MSR AND HEATER VENTS & SHELL DRAINS SYS. P&ID SH.1, SH.2 & SH.3 | 2N22-1010 | H-21023 |
| 6. DEMINERALIZED WATER SYSTEM P&ID | 2P21-1010 | H-26047 |
| 7. MAIN STEAM SYS. P&ID | | H-21012 |
| 8. FUEL POOL COOLING SYS. P&ID | 2G41-1010 | H-26039 |
| 9. COND. VACUUM & GLAND SEAL SYS. | | H-21030 |
| 10. TURBINE & GEN. AUX. SYS. I.E.D. W/PI CONTROL D/A | | H-21246 |
| 11. FEEDWATER CONTROL SYSTEM | 2C32-1010 | 78E966 |
| 12. REACTOR RECIRCULATION SYSTEM | 2B31-1030 | S-27482 |
| 13. SAMPLING SYSTEM P&ID | | H-21205 |
| 14. TORUS DRAINAGE & PURIFICATION SYSTEM P&ID AND PFD. | 2C51-1010 | H-26042 |
| 15. RADWASTE SYSTEM P&ID SH. 4 | 2C11-1010 | H-26029 |
- REFERENCES CONTINUED ON H-21037 SHEET 2

CRITICAL DOCUMENT
MPL No. 2N21-1010 [AC482010] H2103701

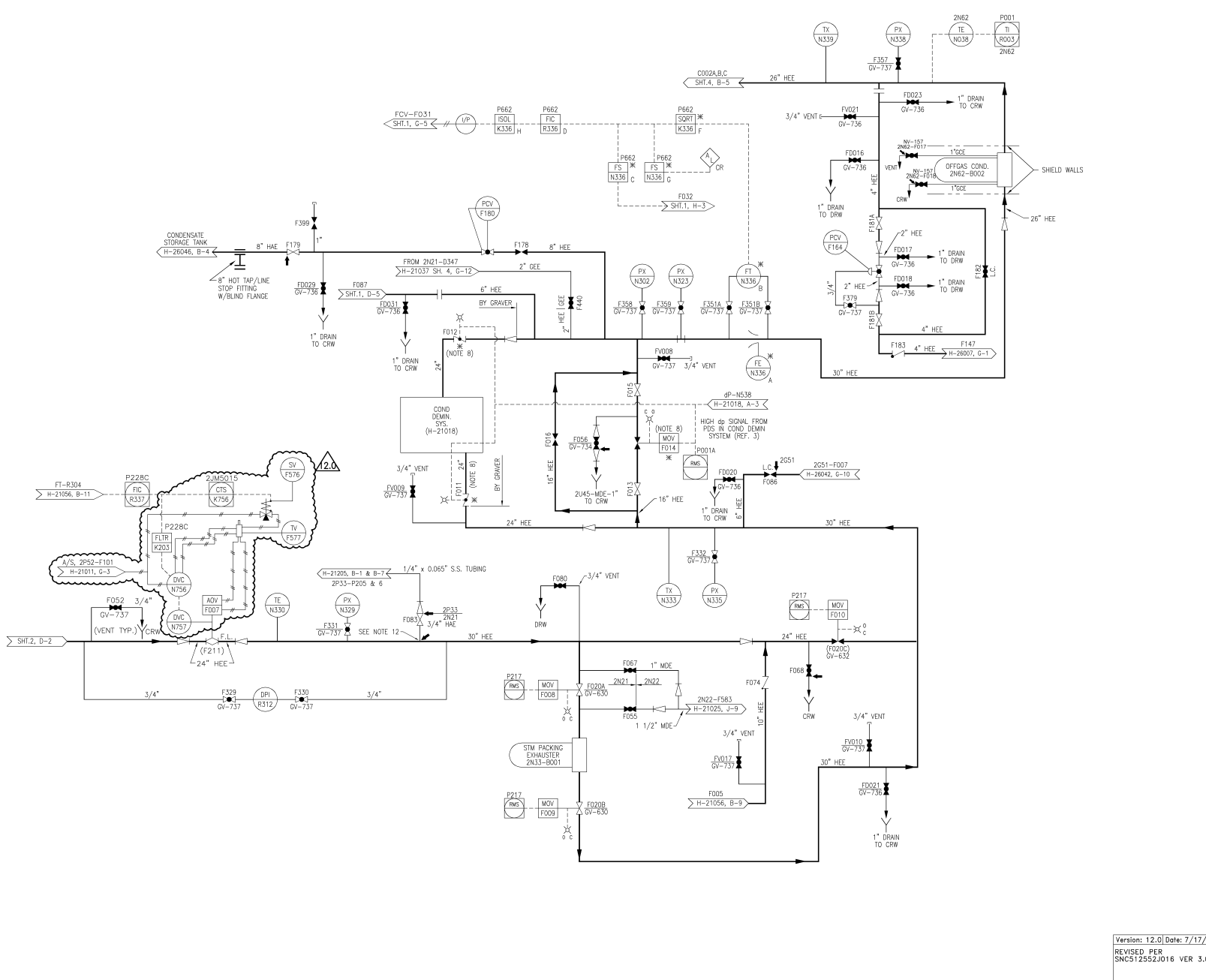


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Version: 60.0 Date: 09/20/19
REVISED PER AEN SNC1034656M003, VER. 1.0

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2	
TURBINE BUILDING	
CONDENSATE & FEEDWATER SYSTEM P&ID	
ISSUED	REVISION
B. Snow	BR4
10-17-91	No Scale
10-502	H-21037
	Sheet 1
60.0	

REV	DATE	BY	CHKD	APPD	DESCRIPTION
1					



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

CRITICAL DOCUMENT

MPL NO. 2N21-1010 (ACAD2000) H21037D03



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Version: 12.0 Date: 7/17/19

REVISED PER SNC512552.016 VER 3.0

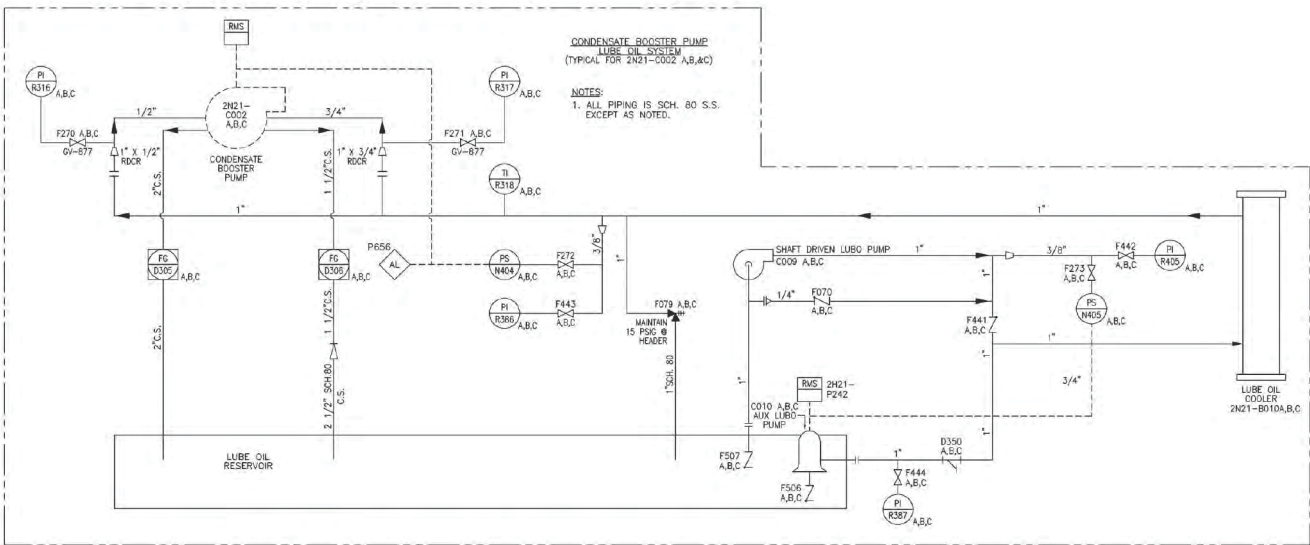
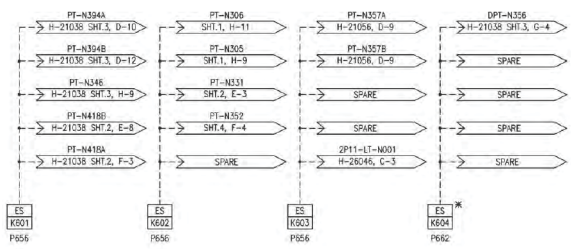
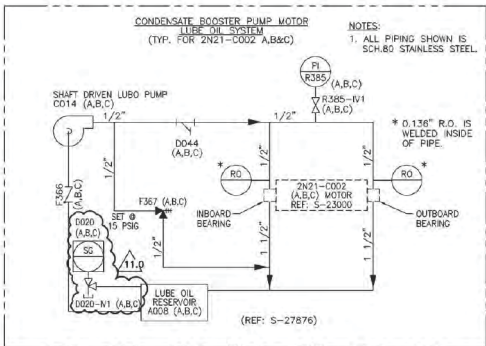
EDWIN I. HATCH NUCLEAR PLANT UNIT NO. 2
TURBINE BUILDING
CONDENSATE & FEEDWATER SYSTEM P & ID
SHEET 3 OF 3

BY	CHKD	DATE
JMM	JDC	JMC

ISSUE	ISSUED BY	ISSUE DATE	ISSUE DESCRIPTION
BS	BRA		
SSB	SSB		
	None		

10-502 H-21037 SH.3 12.0

DRAWING CATEGORY: CRITICAL



Notes:
FOR NOTES AND REFERENCES SEE DRAWINGS H-21037 SHEETS 1 & 2.

CRITICAL DOCUMENT

MPL # 2N21-1010 A002K[H2103705]

SOUTHERN COMPANY

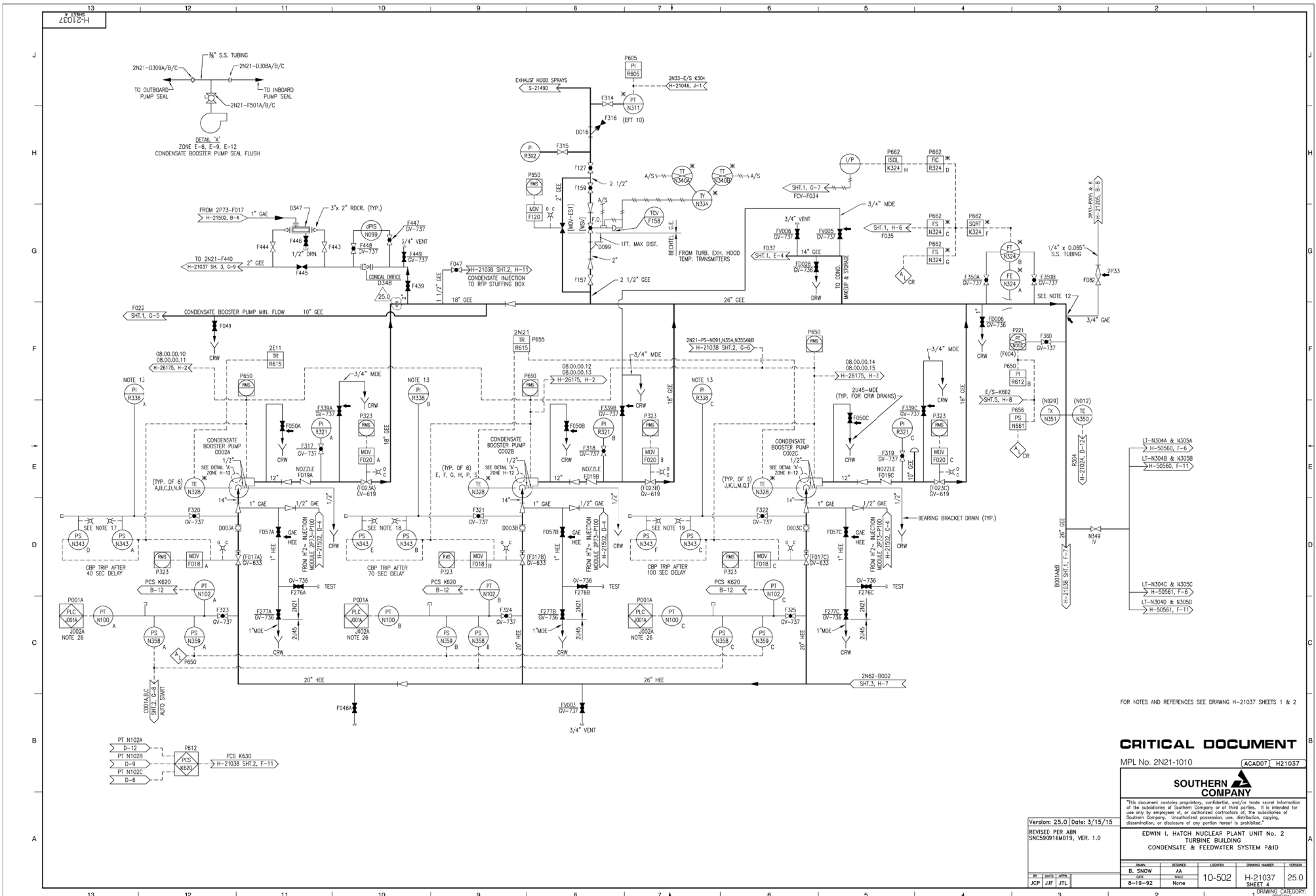
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
TURBINE BUILDING
CONDENSATE & FEEDWATER SYSTEM P&ID
SHEET 5 OF 5

Version: 11.0 Date: 12-13-10	
REVISED PER ABN-H02099, VERSION 1.0	
#	DATE
BY	BY
LPM	LWT

#	DATE	BY	BY	NO.	SHEETS	NO.
				10-502	H-21037	11.0
				REV.	REV.	REV.
				8-20-92	None	

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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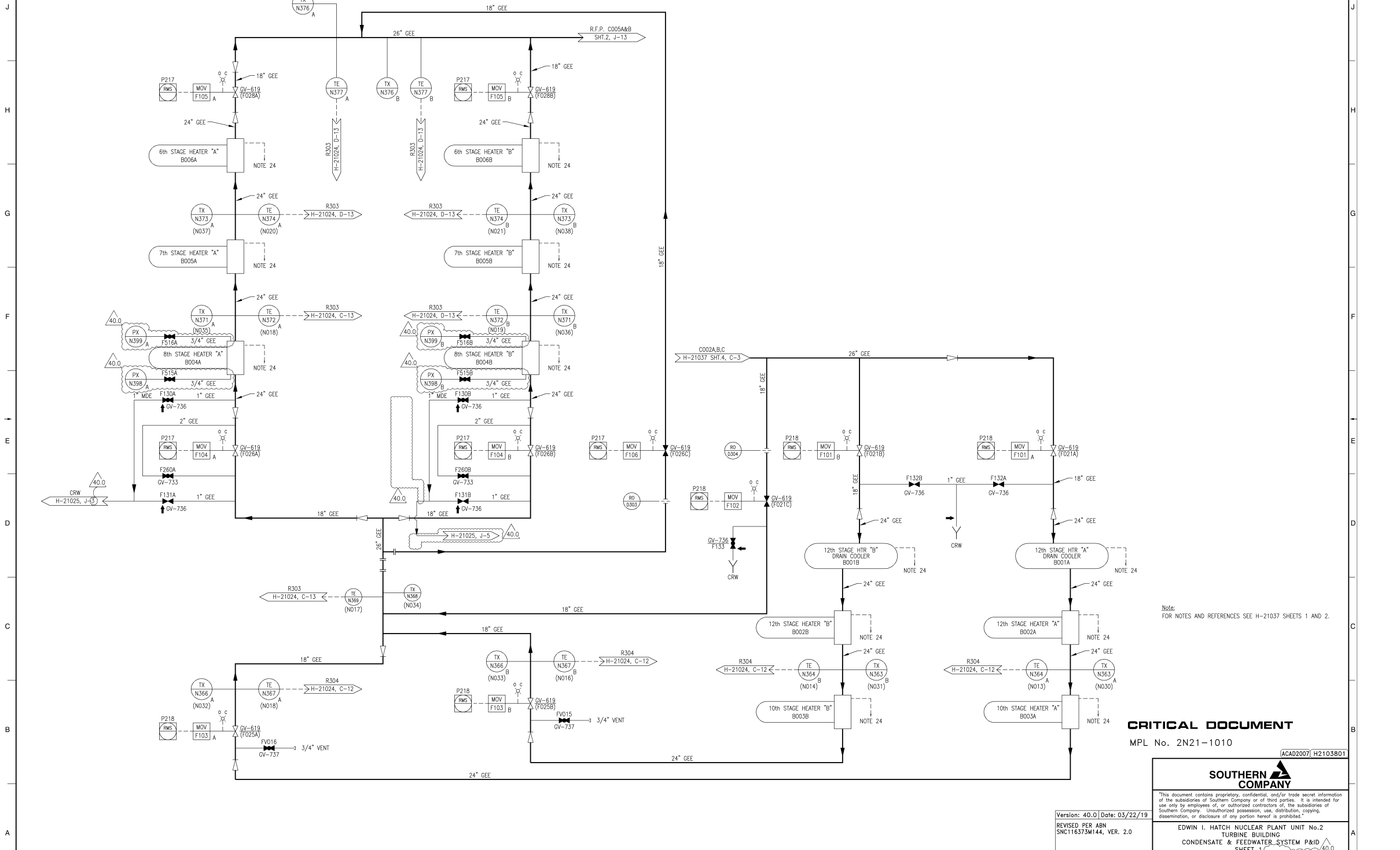
Version: 25.0 | Date: 3/15/15
 REVISED PER ABN
 SNCS0016M019, VER. 1.0

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

NAME	ISSUED	LOCATION	DRAWING NUMBER	VERSION
B. SNOW	AA			
SKL	SKL			
8-19-92	None			

10-502 H-21037 25.0
 SHEET 4

DRAWING CASE/COM: CRITICAL



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

CRITICAL DOCUMENT
MPL No. 2N21-1010

ACAD2007 H2103801

SOUTHERN COMPANY

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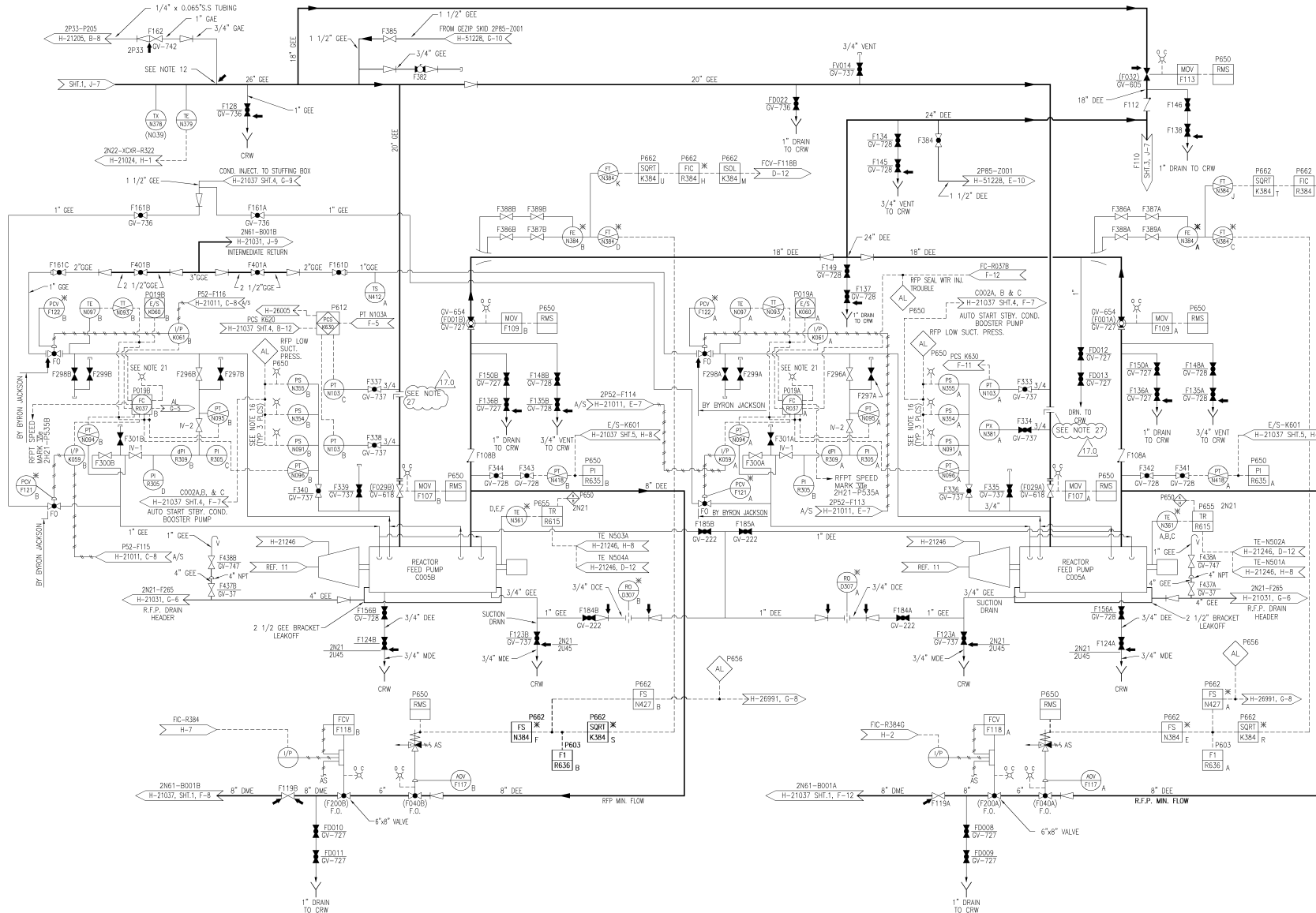
EDWIN I. HATCH NUCLEAR PLANT No.2
TURBINE BUILDING
CONDENSATE & FEEDWATER SYSTEM P&ID
SHEET 1

DESIGNER	DESIGNED	LOCATION	REVISION NUMBER	REVISION
B.SNOW				
DATE	SCALE			
	None			

10-502 H-21038 SHEET 1 40.0

Version: 40.0 | Date: 03/22/19
REVISED PER ABN SN116373M144, VER. 2.0

BY	CHKD	APPR.
JLO	VFP	CYN



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

CRITICAL DOCUMENT
MPL # 2N21-1010 (6cs2007)H2103802



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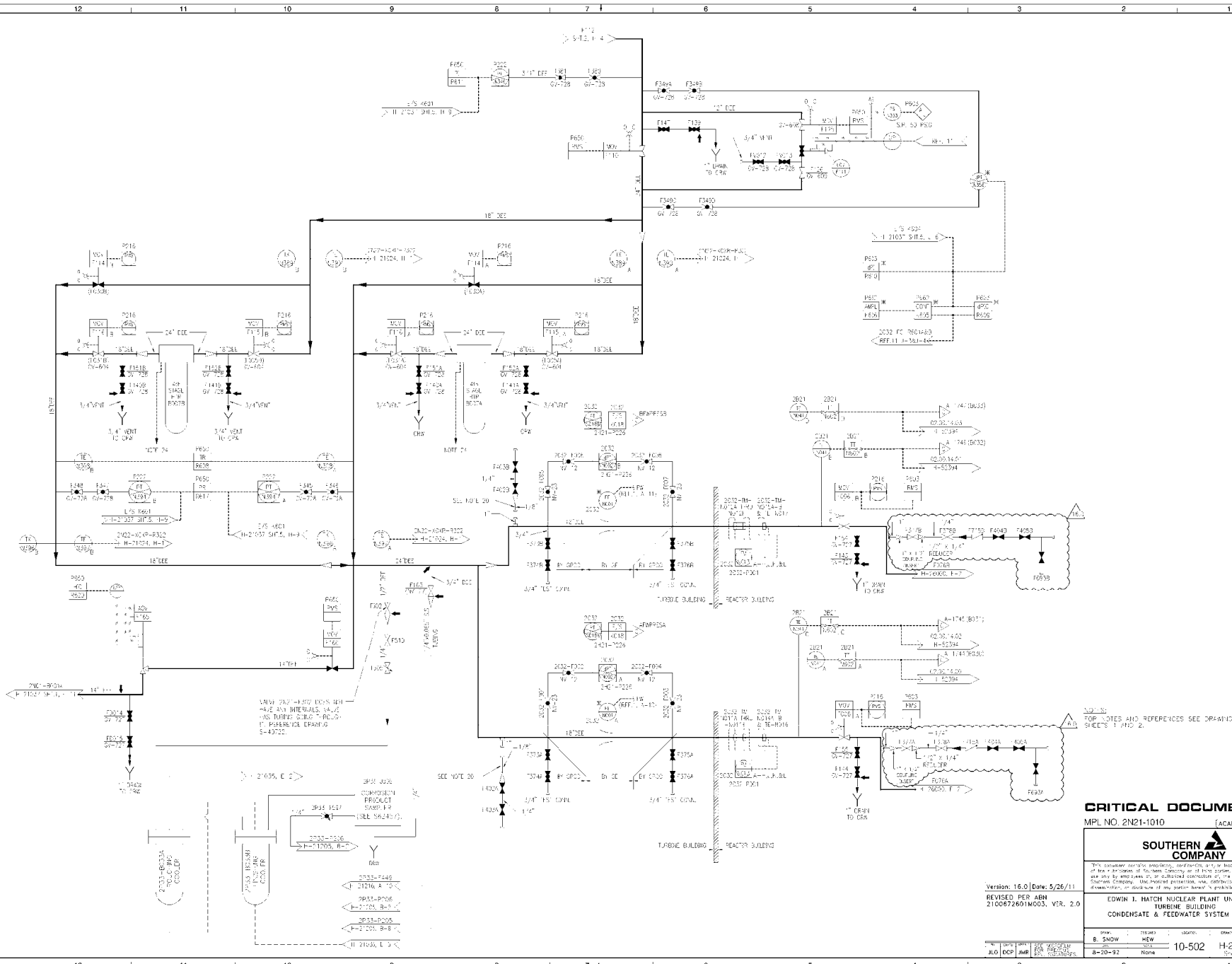
EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
TURBINE BUILDING
& FEEDWATER SYSTEM P & ID
SHEET 2 OF 3

Version: 17.0 Date: 10/18/18
REVISED PER ARI
SNC669237M002, VER. 1.0

REV	DATE	BY	CHKD	APPD	DESCRIPTION
1	8-25-92	JRC	WTB	BOW	None

10-502 H-21038 17.0 SHEET 2

DRAWING CATEGORY: CRITICAL



CRITICAL DOCUMENT
 MPL NO. 2N21-1010 [ACAD2K] H2103803



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

Version: 16.0 | Date: 5/26/11
 REVISED PER AEN
 2100872601M003, VSR, 2.0

NO.	DATE	BY	CHK	APP	DESCRIPTION	ISSUE NO.	REV.
1	8-28-92	JLO	DCP	JMF	ISS. FOR CONSTRUCTION	10-502	1
2							
3							

NO.	DATE	BY	CHK	APP	DESCRIPTION	ISSUE NO.	REV.
1	8-28-92	JLO	DCP	JMF	ISS. FOR CONSTRUCTION	10-502	1
2							
3							

1. ALL EQUIPMENT AND INSTRUMENT PREFIXED BY MPL NO. 2E11 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. ANY ADDITIONAL HIGH POINT VENTS AND LOW POINT DRAINS TO BE LOCATED 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 STANDARD SPECIFICATIONS.
6. INSTRUMENT PIPING OR TUBING BEYOND THE ROOT VALVE IS TO BE ACCORDANCE WITH THE INSTRUMENT INSTALLATION DETAILS DWG. A-25412.
7. VALVE NUMBER IN PARENTHESIS INDICATES VALVE NUMBER OF CORRESPONDING VALVE ON UNIT 1.
8. VALVES ON THIS DWG. ARE NUMBERED FD001 THRU FD020 FOR DRAIN VALVES, FD001 THRU FD020 FOR DRAIN VALVES.
9. ONLY ONE STRAINER NEED BE IN SERVICE PER LOOP. POSITION INLET/OUTLET VALVES ACCORDINGLY, LOCK IN POSITION AFTERWARDS.
10. PRESSURE SWITCHES PSND17A & B CAN BE OVERRIDDEN FROM 10 STARTING RHSSW PUMP BY USING OVERRIDE SWITCH.
11. 1" HAC PIPING MAY BE INSTALLED IN PLACE OF FLEXIBLE METAL HOSES 2P41-D004A,C AND D005A,B,C&D BASED ON HOSE AVAILABILITY. PIPING SPOOLS INSTALLED RETAIN THE SAME MPL TAG NUMBERS AS THE REPLACED HOSES.
12. ALL BHSW PUMPS HAVE 1" PIPING EXTENSION ON SEAL LEAK OFF LINES WHICH ATTACH TO PUMP COLUMN WITH BRACKETS AND EXTEND TOWARD BASE OF PUMP.
13. THIS PIPING CONFORMS TO GBC PIPING CLASS EXCEPT FOR THE THERMAL RELIEF VALVE LOCATED ON THIS BRANCH WHICH PROVIDES A HOSE CONNECTION FOR USE DURING FLEX STRATEGY IMPLEMENTATION. THIS PIPING IS NOT USED DURING DESIGN BASIS NORMAL OR ACCIDENT OPERATIONS.
14. THESE FLANGES PERMIT INSTALLATION OF A WYE STRAINER DURING FLEX STRATEGY IMPLEMENTATION. THIS FLOWPATH IS NOT USED DURING DESIGN BASIS NORMAL OR ACCIDENT OPERATIONS.
15. VALVES 904A/B, 905A/B, 906A/B, AND 907A/B WILL NORMALLY BE CLOSED UNLESS REQUIRED RESPONSE TO A BEYOND DESIGN BASIS EXTERNAL EVENT (BDBE) OR PLANT MAINTENANCE SUCH AS DEADLEG FLUSHING.
16. WHEN REFERENCED TO THIS NOTE, EQUIPMENT IS REQUIRED FOR NRC ORDER EA-13-109 COMPLIANCE, REFER TO A-53317 AND A-53324 FOR HOSE FUNCTION.

REFERENCES:

TITLE	MPL NO.	DWG. NO.
1. RHR SYSTEM P. & I. D. SHEET 1.	2E11-1010	H-26014
2. RHR SYSTEM P. & I. D. SHEET 2.	2E11-1010	H-26015
3. REACTOR & RADWASTE BLDGS CONDENSATE STORAGE & TRANSFER SYSTEM P.&I.D.	2P11-1010	H-26046
4. TURB. BLDG, CIRCULATING WATER SYSTEM P.&I.D.	2N71-1010	H-21026
5. SERVICE WATER SYSTEM P.&I.D. SHEET	2P41-1010	H-21033
6. RESIDUAL HEAT REMOVAL FLOW CONTROL DIAGRAM	2E11-1030	H-26284
7. DIGITAL INPUT SIGNALS TO THE ERF/SPDS COMPUTER SYSTEM I.E.D. SH. 2 OF 15.	2X75-1010	H-26164
8. REACTOR BUILDING PSW P.&I.D. SHEET	2P41-1010	H-26050
9. REACTOR BUILDING PSW P.&I.D. SHEET 2	2P41-1010	H-26051

LW F004
LW F004
LW F222

CRITICAL DOCUMENT

MPL NO. 2E11 (SC4C2009) H21039

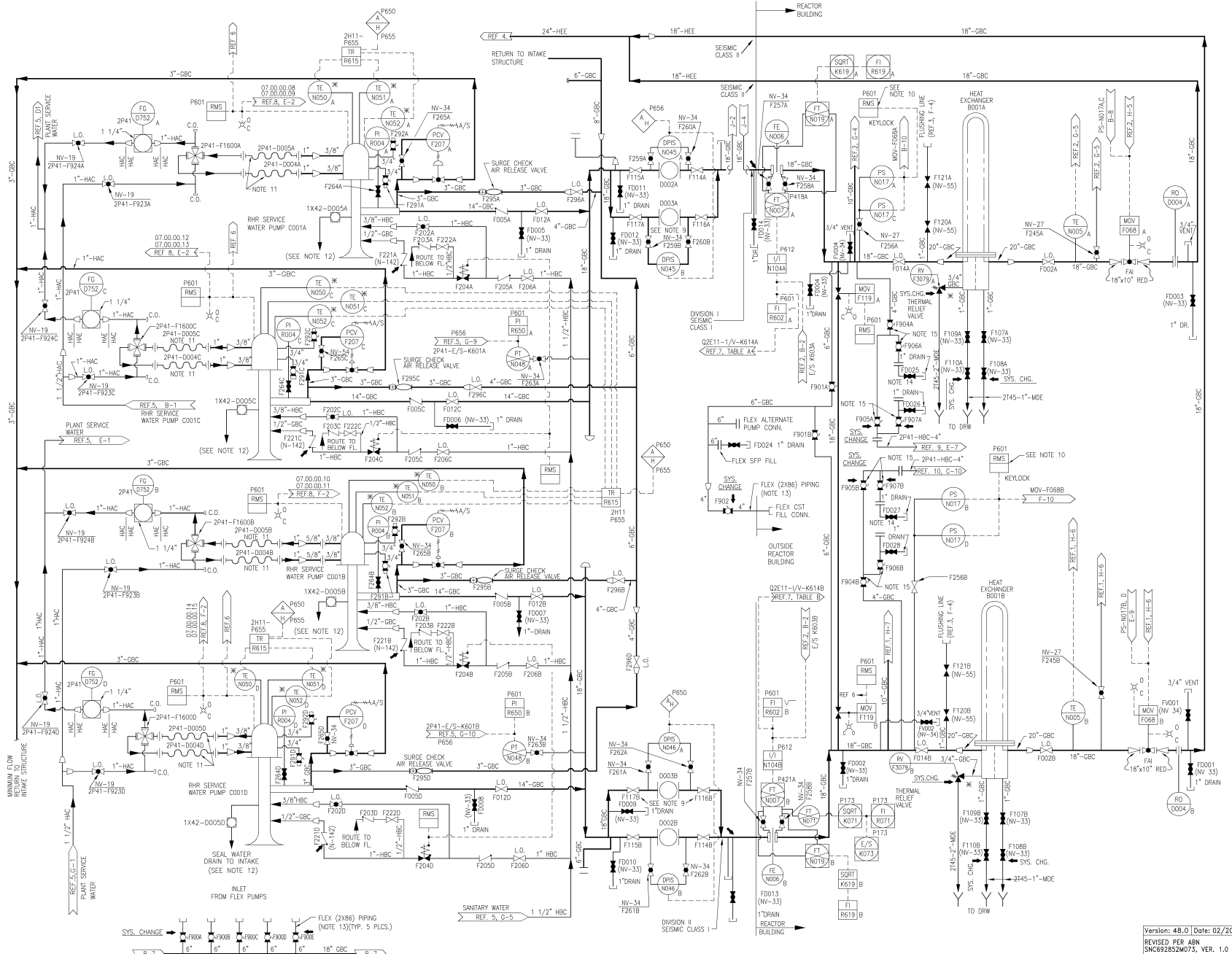


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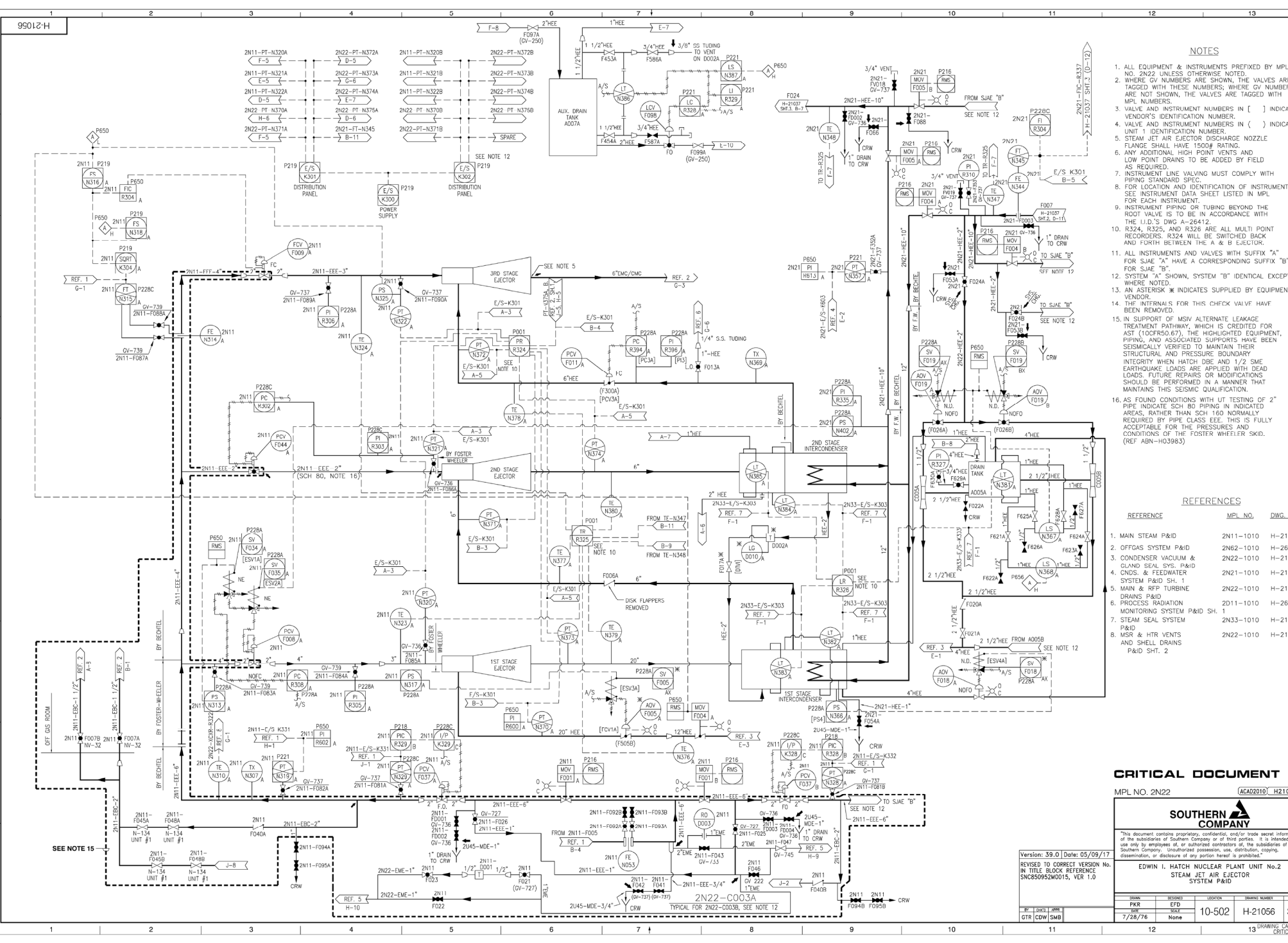
EDWIN L. HATCH NUCLEAR PLANT UNIT NO. 2
R.H.R. SERVICE WATER SYSTEM
P. & I. D.

NO.	DESIGNED	LOCATED	DRAWN	NUMBER	VERSION
DC					
DR					
12-11-73	None				

Version: 48.0 | Date: 02/20/18
REVISED PER ABN
SNC62952M073, VER. 1.0



A
B
C
D
E
F
G
H
J



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 ADDED 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-26412.
10. R324, R325, AND R326 ARE ALL MULTI POINT RECORDERS. R324 MUST BE SWITCHED BACK AND FORTH BETWEEN THE A & B EJECTOR.
11. ALL INSTRUMENTS AND VALVES WITH SUFFIX "A" FOR SJAЕ "A" HAVE A CORRESPONDING SUFFIX "B" FOR SJAЕ "B".
12. SYSTEM "A" SHOWN, SYSTEM "B" IDENTICAL EXCEPT WHERE NOTED.
13. AN ASTERISK * INDICATES SUPPLIED BY EQUIPMENT VENDOR.
14. THE INSTRUMENTS FOR THIS CHECK VALVE HAVE BEEN REMOVED.
15. IN SUPPORT OF MSW ALTERNATE LEAKAGE TREATMENT PATHWAY WHICH IS CREDITED FOR AS1 (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 SIE EARTHQUAKE LOADS ARE APPLIED WITH DEAD LOADS. FUTURE REPAIRS OR MODIFICATIONS SHOULD BE PERFORMED IN A MANNER THAT MAINTAINS THIS SEISMIC QUALIFICATION.
16. AS FLOW CONDITIONS WITH UT TESTING OF 2" PIPE INDICATE SCH 80 PIPING IN INDICATED AREAS, RATHER THAN SCH 160 NORMALLY REQUIRED BY PIPE CLASS EEE, THIS IS FULLY ACCEPTABLE FOR THE PRESSURES AND CONDITIONS OF THE FOSTER WHEELER SKID. (REF ABN-H03983)

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. CNDS. & FEEDWATER SYSTEM P&ID SH. 1	2N21-1010	H-21037
5. MAIN & RFP TURBINE DRAINS P&ID	2N22-1010	H-21031
6. PROCESS RADIATION MONITORING SYSTEM P&ID SH. 1	2D11-1010	H-26011
7. STEAM SEAL SYSTEM P&ID	2N33-1010	H-21046
8. MS&R & HTR VENTS AND SHELL DRAINS P&ID SH. 2	2N22-1010	H-21024

CRITICAL DOCUMENT

MPL NO. 2N22 (ACAD2010) H21056

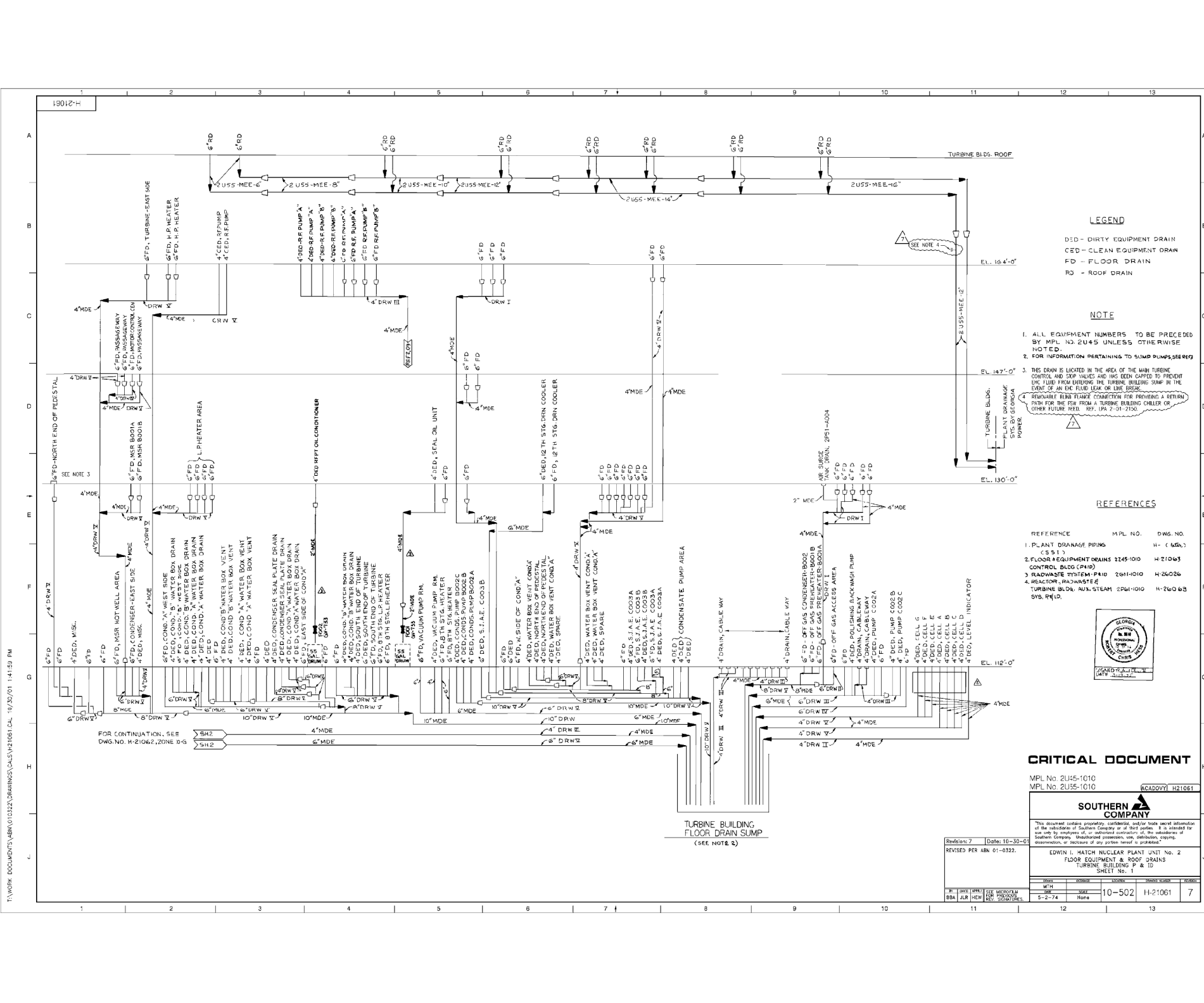


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EDWIN I. HATCH NUCLEAR PLANT UNIT #2
STEAM JET AIR EJECTOR SYSTEM P&ID

REV.	DATE	BY	REASON	LOCATION	DRAWING NUMBER	VERSION
1	7/28/76	None		10-502	H-21056	39.0

Version: 39.0 Date: 05/09/17
REVISED TO CORRECT VERSION NO. IN TITLE BLOCK REFERENCE SNC850952M0015, VER 1.0



LEGEND

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

NOTE

1. ALL EQUIPMENT NUMBERS TO BE PRECEDED BY MPL NO. 2U45 UNLESS OTHERWISE NOTED.
2. FOR INFORMATION PERTAINING TO SLUMP PUMPS, SEE REF 3.
3. THIS DRAIN IS LOCATED IN THE AREA OF THE MAIN TURBINE CONTROL AND STOP VALVES AND HAS BEEN CAPPED TO PREVENT EPC FLUID FROM ENTERING THE TURBINE BUILDING SUMP IN THE EVENT OF AN EPC FLUID LEAK OR LINE BREAK.
4. REMOVABLE FLANGE CONNECTION FOR PROVIDING A BENTON PATH FOR THE FSW FROM A TURBINE BUILDING CHILLER OR OTHER FUTURE NEED. REF. IPR 2-01-2106.

REFERENCES

- | REFERENCE | MPL NO. | DWG. NO. |
|---|----------|----------|
| 1. PLANT DRAINAGE PIPING (S 11) | H-1062 | H-1062 |
| 2. FLOOR EQUIPMENT DRAINS 1245-100 CONTROL BLDG (PAID) | H-21063 | H-21063 |
| 3. RADWASTE SYSTEM-PAID | 2601-010 | H-26026 |
| 4. REACTOR BUILDING WASTE TURBINE BLDG. AUX. STEAM 2601-010 | H-26063 | H-26063 |



CRITICAL DOCUMENT

MPL No. 2U45-1010
MPL No. 2U55-1010
ACAD00V1 H21061

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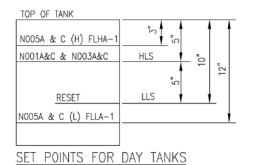
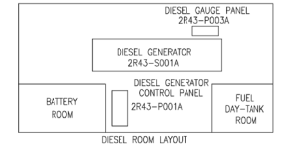
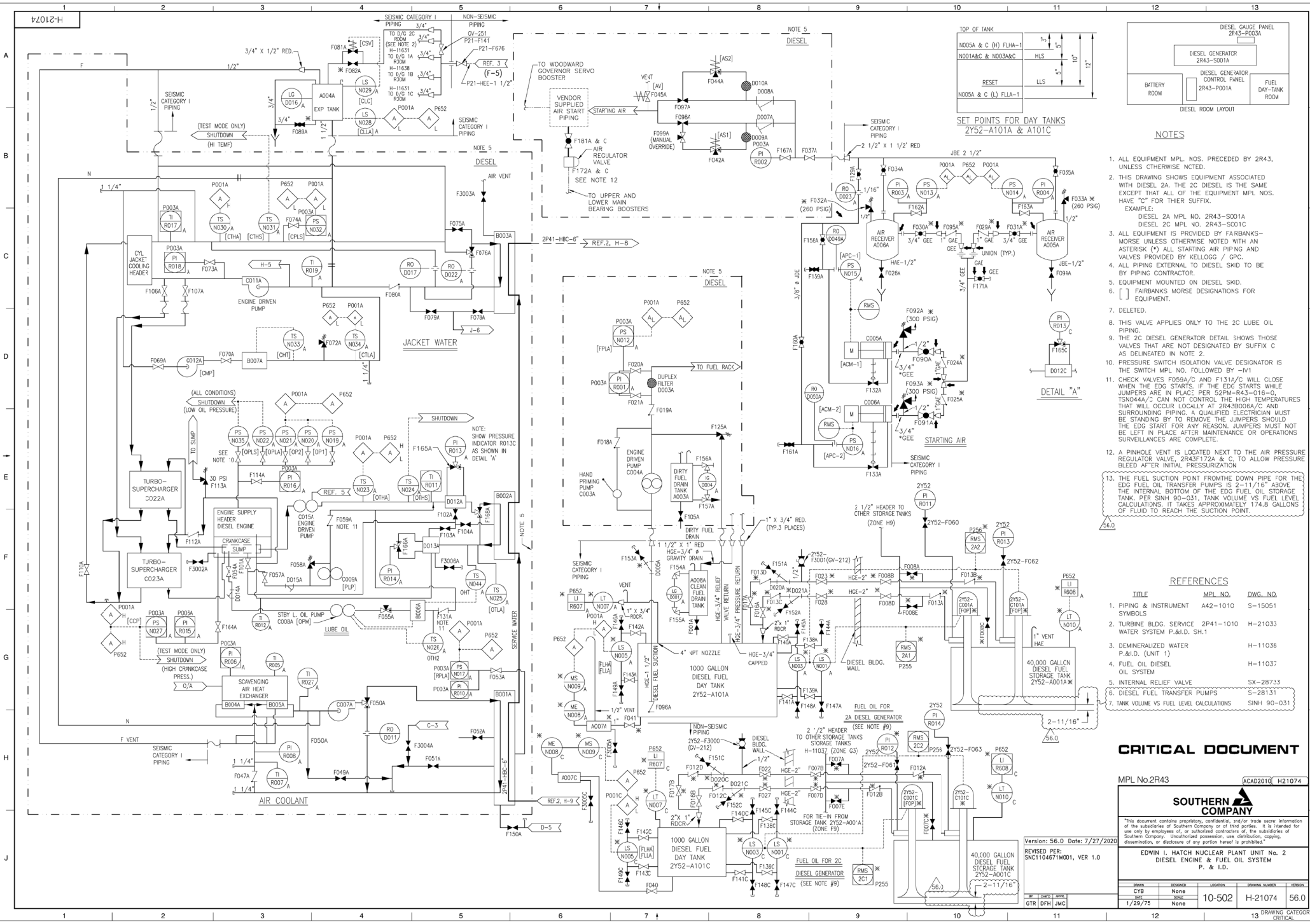
EDWIN I. MATCH NUCLEAR PLANT UNIT No. 2
FLOOR EQUIPMENT & ROOF DRAINS
TURBINE BUILDING P & ID
SHEET No. 1

Revision: 7 Date: 10-30-01
REVISED PER ABN 01-0322.

NO.	DATE	BY	CHKD.	REASON	ISSUED	REVISION
1	10-30-01	None	None	None	10-502	11-21061
2	5-2-74	None	None	None		7

FOR CONTINUATION, SEE
DWG. NO. H-21062, ZONE 0-5

TURBINE BUILDING FLOOR DRAIN SUMP
(SEE NOTE 2)



NOTES

- ALL EQUIPMENT MPL NOS. PRECEDED BY 2R43, UNLESS OTHERWISE NOTED.
- THIS DRAWING SHOWS EQUIPMENT ASSOCIATED WITH DIESEL 2A. THE 2C DIESEL IS THE SAME EXCEPT THAT ALL OF THE EQUIPMENT MPL NOS. HAVE "C" FOR THEIR SUFFIX.
EXAMPLE:
DIESEL 2A MPL NO. 2R43-SC01A
DIESEL 2C MPL NO. 2R43-SC01C
- ALL EQUIPMENT IS PROVIDED BY FAIRBANKS-MORSE UNLESS OTHERWISE NOTED WITH AN ASTERISK (*) ALL STARTING AIR PIPING AND VALVES PROVIDED BY KELLOGG / GPC.
- ALL PIPING EXTERNAL TO DIESEL SKID TO BE BY PIPING CONTRACTOR.
- EQUIPMENT MOUNTED ON DIESEL SKID.
- FAIRBANKS MORSE DESIGNATIONS FOR EQUIPMENT.
- DELETED.
- THIS VALVE APPLIES ONLY TO THE 2C LUBE OIL PIPING.
- THE 2C DIESEL GENERATOR DETAIL SHOWS THOSE VALVES THAT ARE NOT DESIGNATED BY SUFFIX C AS DELINEATED IN NOTE 2.
- PRESSURE SWITCH ISOLATION VALVE DESIGNATOR IS THE SWITCH MPL NO. FOLLOWED BY -I/1
- CHECK VALVES F059A/C AND F131A/C WILL CLOSE WHEN THE EDC STARTS. IF THE EDC STARTS WHILE JUMPERS ARE IN PLACE PER 52PM-R43-016-D, TSN0444/C CAN NOT CONTROL THE HIGH TEMPERATURES THAT WILL OCCUR LOCALLY AT 2R43B006A/C AND SURROUNDING PIPING. A QUALIFIED ELECTRICIAN MUST BE STANDING BY TO REMOVE THE JUMPERS SHOULD THE EDC START FOR ANY REASON. JUMPERS MUST NOT BE LEFT IN PLACE AFTER MAINTENANCE OR OPERATIONS SURVEILLANCES ARE COMPLETE.
- A PINHOLE VENT IS LOCATED NEXT TO THE AIR PRESSURE REGULATOR VALVE, 2R43F172A & C, TO ALLOW PRESSURE BLEED AFTER INITIAL PRESSURIZATION
- THE FUEL SUCTION POINT FROM THE DOWN PIPE FOR THE EDC FUEL OIL TRANSFER PUMPS IS 2'-11/16" ABOVE THE INTERNAL BOTTOM OF THE EDC FUEL OIL STORAGE TANK PER SINH 90-031. TANK VOLUME VS FUEL LEVEL CALCULATIONS. IT TAKES APPROXIMATELY 174.8 GALLONS OF FLUID TO REACH THE SUCTION POINT.

REFERENCES

- | TITLE | MPL NO. | DWG. NO. |
|---|-----------|-------------|
| 1. PIPING & INSTRUMENT SYMBOLS | A42-1010 | S-15051 |
| 2. TURBINE BLDG. SERVICE WATER SYSTEM | 2P41-1010 | H-21033 |
| 3. DEMINERALIZED WATER P.&I.D. (UNIT 1) | SH-1 | H-11038 |
| 4. FUEL OIL DIESEL OIL SYSTEM | | H-11037 |
| 5. INTERNAL RELIEF VALVE | | SX-28733 |
| 6. DIESEL FUEL TRANSFER PUMPS | | S-28131 |
| 7. TANK VOLUME VS FUEL LEVEL CALCULATIONS | | SINH 90-031 |

CRITICAL DOCUMENT

MPL No 2R43 ACAD2010 H21074



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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
DIESEL ENGINE & FUEL OIL SYSTEM
P. & I.D.

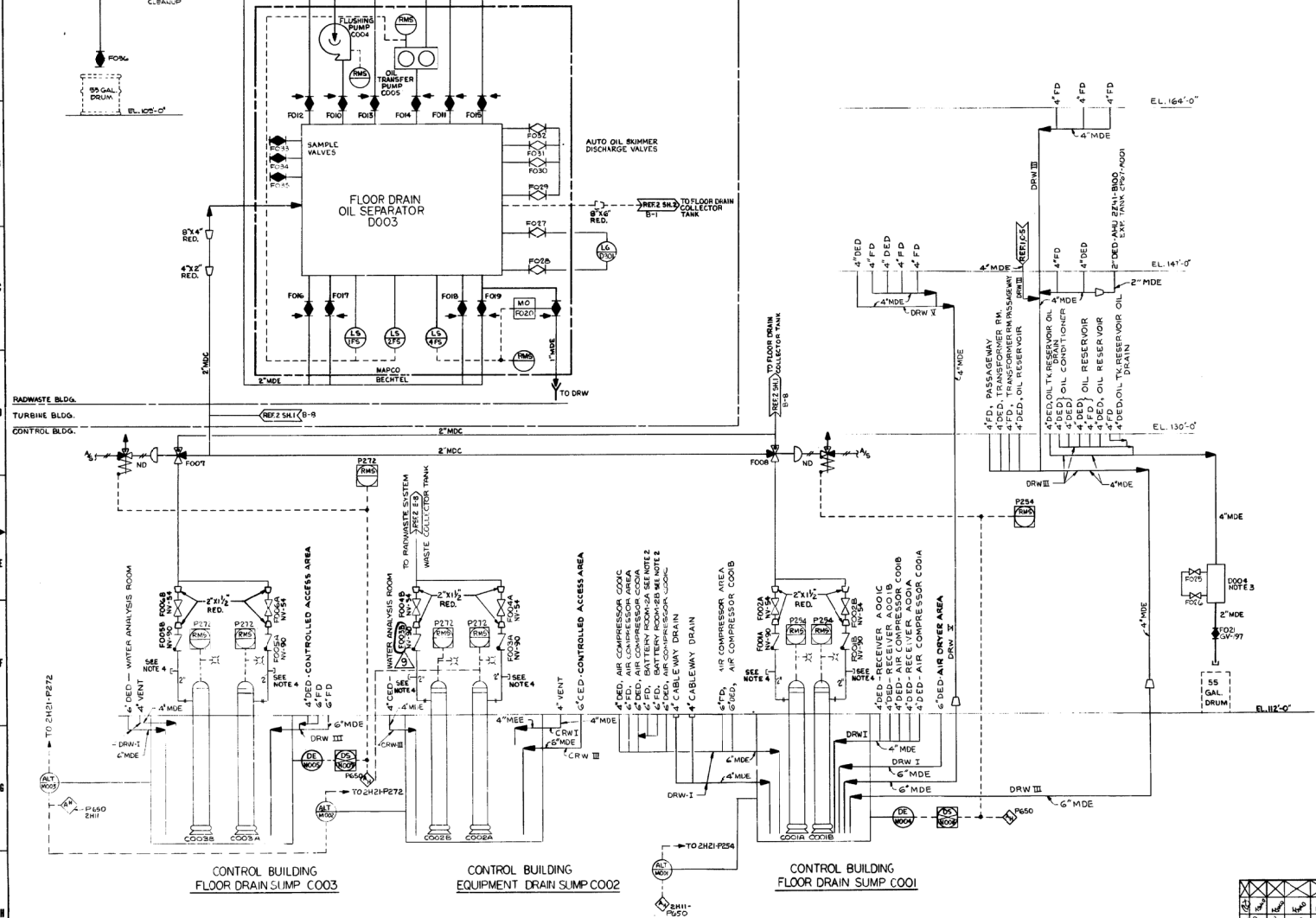
Version: 56.0 Date: 7/27/2020

REVISED PER: SNC110467/M001, VER 1.0

DATE	BY	REVISION	LOCATION	ISSUE NUMBER	VERSION
1/29/75	None		10-502	H-21074	56.0
	GTR	DFH	JMC		

DRAWING CATEGORY: CRITICAL

99012H



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\"/>

REFERENCES

- | REFERENCE | MPL NO. | DWG. NO. |
|---|-----------|-----------------|
| 1. FLOOR, EQUIPMENT & ROOF DRAINS - TURBINE BLDG. - P&ID, S&I | 2U45-1010 | H-21041 |
| 2. RADWASTE SYSTEM P&ID | 2G11-1010 | H-26026-H-26028 |
| 3. COND. STORAGE & TRANSFER SYS. P&ID. | 2PH-1010 | H-26046 |
| 4. DEMINERALIZED WATER SYS. P&ID. | 2F21-1010 | H-26047 |



CRITICAL DOCUMENT
MPL NO. 2245-1010 LYN-F022

BECHTEL
GAIHTERSBURG, MARYLAND

SOUTHERN SERVICES INC.
FOR

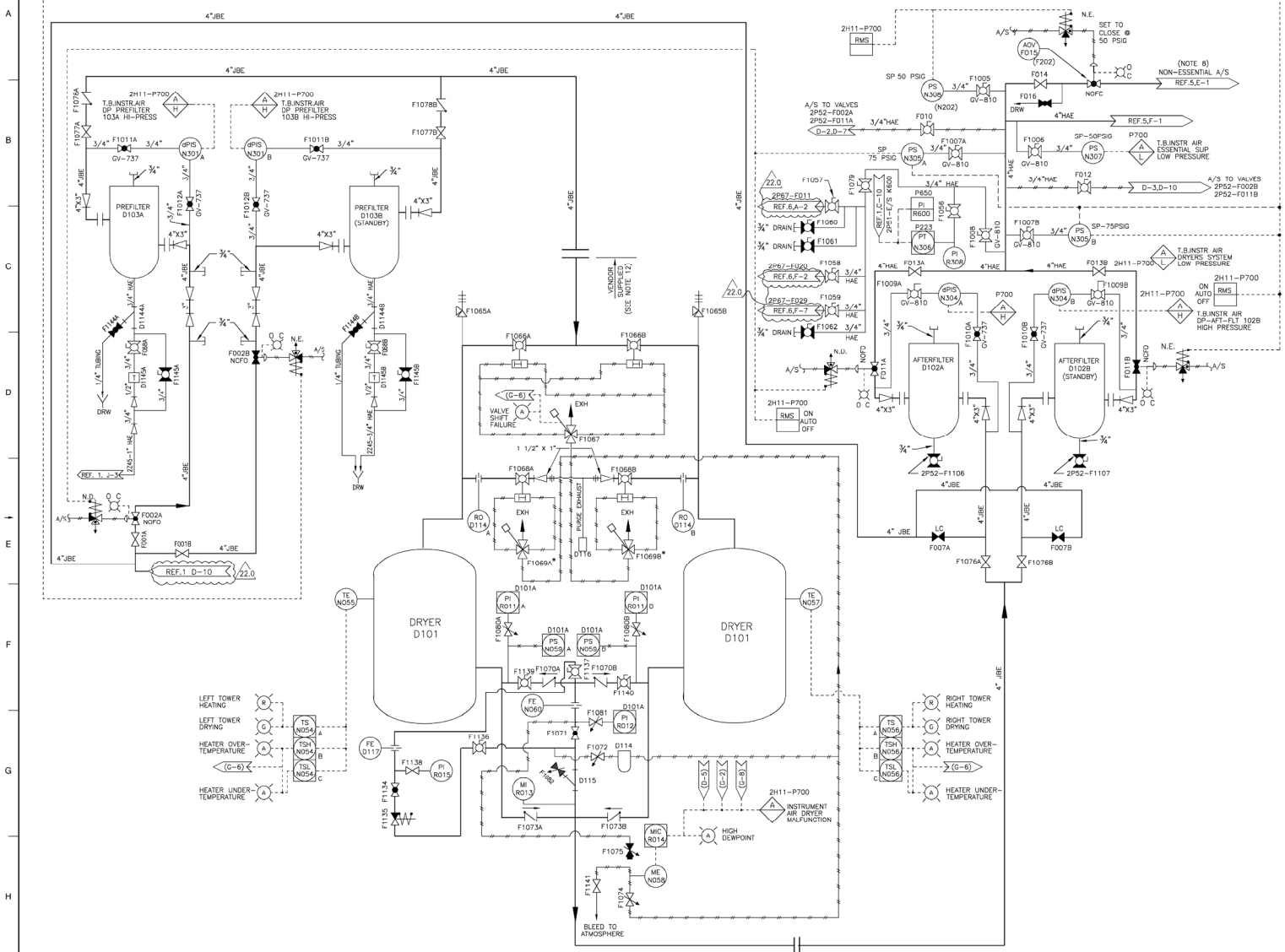
GEORGIA POWER CO., ATLANTA, GA.
GENERAL ENGINEERING DEPARTMENT
EDWIN HATCH NUCLEAR PLANT UNIT #2
FLOOR AND EQUIPMENT DRAINS
CONTROL BUILDING - P&ID.

REVISION	DATE	BY	CHKD	APP'D	DESCRIPTION
1	7-25-70				CHANGE MPL NO. FROM FO03A TO F008 IN RESPONSE TO AM 30-429 (NO OCR)
2	10-1-71				ADDED 2\"/>

NO.	DATE	BY	CHKD	APP'D	DESCRIPTION
1	10-1-71				ADDED 2\"/>

DATE	BY	CHKD	APP'D	DESCRIPTION
10-1-71				ADDED 2\"/>

10-512 421063



- 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 ROOT VALVE IS TO BE IN ACCORDANCE WITH THE INSTRUMENT INSTALLATION DETAILS DWG. A-28412
 - 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, DESICCANT 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 SHT. 1	2P51-1010	H-21028
2)	TURBINE BLDG. INSTR. AIR SYS P&ID SHT. 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 SHT. 4	2P52-1010	H-21088
5)	TURBINE BLDG. INSTR. AIR SYS P&ID SHT. 5	2P52-1010	H-21078
6)	CTRL. BLDG. CHILLED WATER COOLING UNITS P&ID	2241-1010	H-51179
7)	TURB BLDG. SERVICE AIR SYS. P&ID SHT. 2	2P51-1010	H-21029

CRITICAL DOCUMENT

MPL No. 2P52-1010 ACAD2000 H21077



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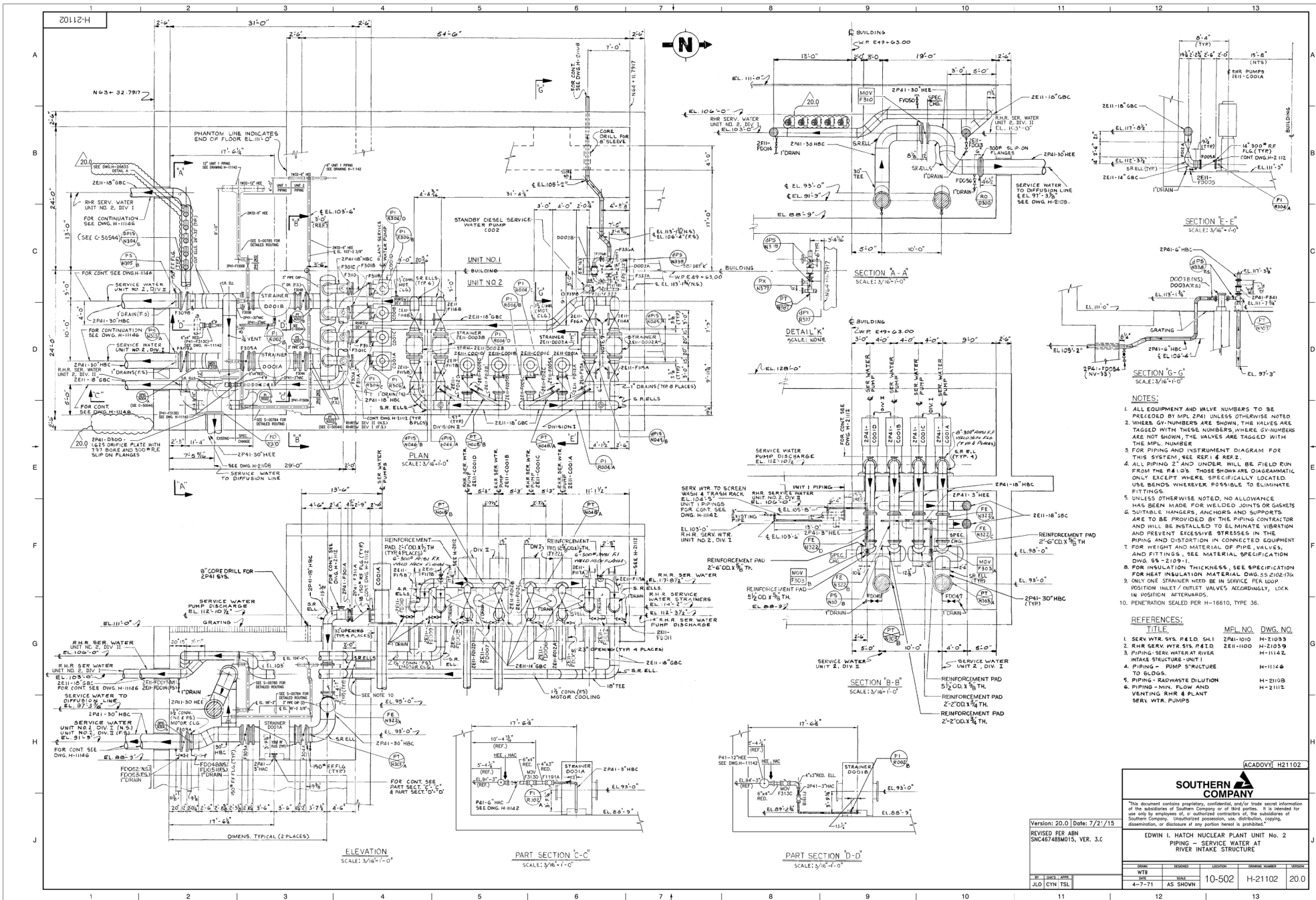
Version: 22.0 Date: 06/05/17
REVISED PER SNCS37508M01, VER 1.0

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

Drawn	Checked	Location	Design Number	Design
CLH	ML/DWS	10-502	H-21077	22.0
11-14-12	None			

Rev	Desc	Date
JAT	2WC 15M6	

DWG. CATEGORY: CRITICAL



- NOTES:**
1. ALL EQUIPMENT AND VALVE NUMBERS TO BE PRECEDED BY MPL 2P41 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. FOR PIPING AND INSTRUMENT DIAGRAM FOR THIS SYSTEM, SEE REF. 1 & REF. 2
 4. ALL PIPING 2\"/>
- REFERENCES:**
- | TITLE | MPL NO. | DWG. NO. |
|--|-----------|----------|
| 1. SERV. WTR. SYS. FIELD S&I | 2P41-1010 | H-21093 |
| 2. RHR SERV. WTR. SYS. FIELD | 2E11-1100 | H-21039 |
| 3. PIPING - SERV. WATER AT RIVER INTAKE STRUCTURE - UNIT 1 | | H-11142 |
| 4. PIPING - PUMP STRUCTURE TO BLDG. 65 | | H-11146 |
| 5. PIPING - RADWASTE DILUTION | | H-21008 |
| 6. PIPING - NON-FLOW ANTI-VENTING RHR & PLANT SERV. WTR. PUMPS | | H-21112 |

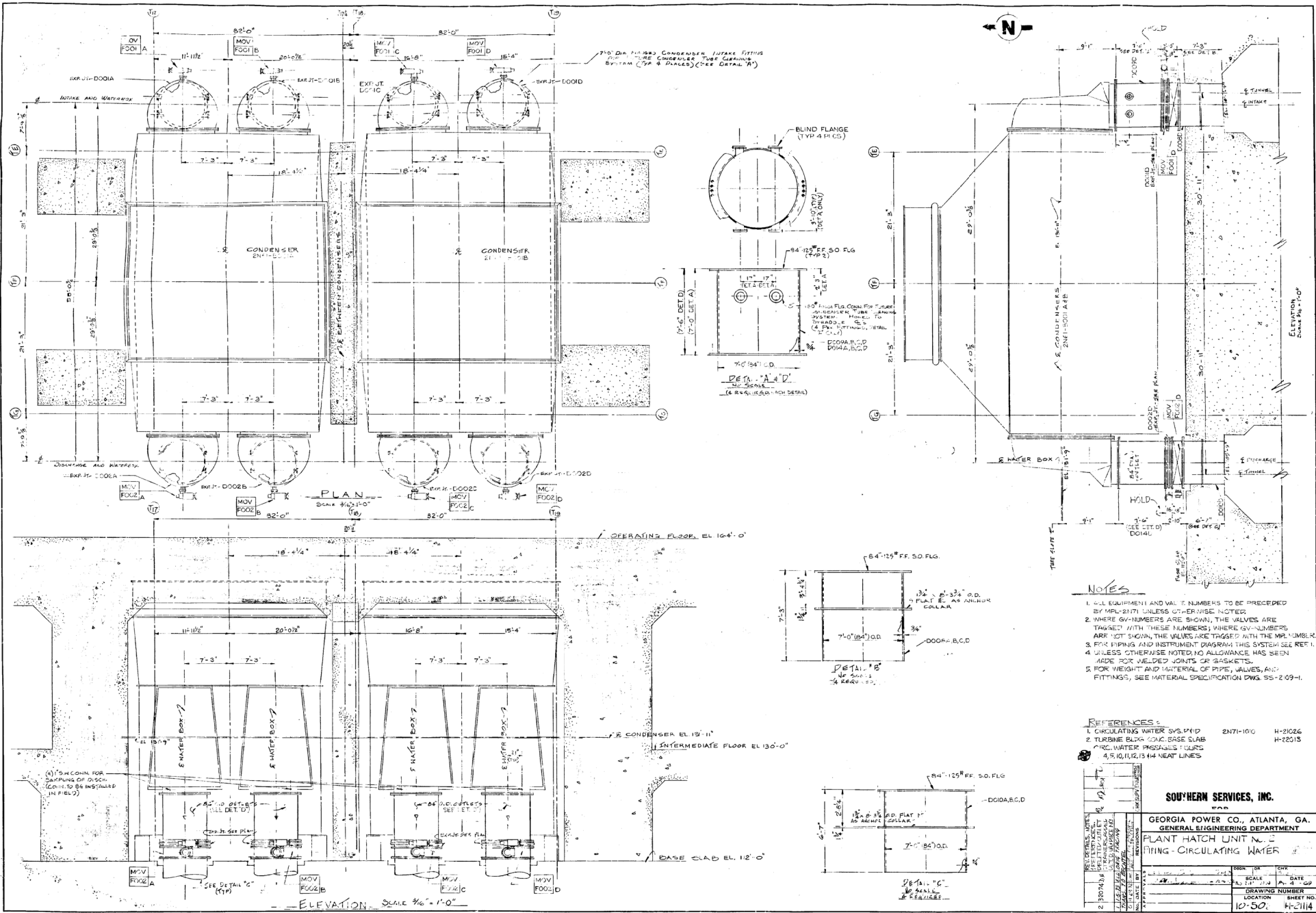
SOUTHERN COMPANY

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2
 PIPING - SERVICE WATER AT
 RIVER INTAKE STRUCTURE

Version: 20.0 | Date: 7/2/15
 REVISED PER ABN
 SNC467488M015, VER. 3.0

DATE	ISSUES	LOCATION	ISSUE NUMBER	ISSUES
4-7-71	AS SHOWN		10-502	H-21102

JLD CYN TSL



- NOTES**
1. ALL EQUIPMENT AND VALVE NUMBERS TO BE PRECEDED BY MFL-2171 UNLESS OTHERWISE NOTED.
 2. WHERE GV-NUMBERS ARE SHOWN, THE VALVES ARE TAGGED WITH THESE NUMBERS; WHERE MV-NUMBERS ARE NOT SHOWN, THE VALVES ARE TAGGED WITH THE MFL NUMBER.
 3. FOR PIPING AND INSTRUMENT DIAGRAM THIS SYSTEM SEE REF. 1.
 4. UNLESS OTHERWISE NOTED, NO ALLOWANCE HAS BEEN MADE FOR WELDED JOINTS OR GASKETS.
 5. FOR HEIGHT AND MATERIAL OF PIPES, VALVES, AND FITTINGS, SEE MATERIAL SPECIFICATION DWG. SS-2-09-H.

- REFERENCES:**
1. CIRCULATING WATER SYS. PIP. 2N71-100 H-21026
 2. TURBINE BLDG. CONC. BASE SLAB CIRC. WATER PRESSURES - 4.5, 10, 11, 12, 14 NEAT LINES H-22015

<p>SOUTHERN SERVICES, INC.</p> <p>GEORGIA POWER CO., ATLANTA, GA. GENERAL ENGINEERING DEPARTMENT</p> <p>PLANT HATCH UNIT NO. 2 PIPING - CIRCULATING WATER</p>							
<p>SCALE: 1/4" = 1'-0"</p> <p>DATE: 10-50</p> <p>DRAWING NUMBER: H-2114</p>	<p>REVISIONS:</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DESCRIPTION			
NO.	DATE	DESCRIPTION					