

REVISIONS		
REV	ZONE	DESCRIPTION
8		ECO C314521

- NOTES:
1. SEE DWG QJ 3E-700-10-001 FOR SYMBOLS.
 2. AUTO TRANSFER SWITCHES IT-3 & IT-4 EACH HAVE TWO WHITE INDICATING LAMPS MOUNTED ON THE CABINETS CONNECTED BETWEEN PHASES A & B AND PHASES B & C OF THE EMERGENCY (ALTERNATE) BUS TO INDICATE EMERGENCY POWER AVAILABILITY (REF TO JCP & L DWG. 19645).
 3. AUTO TRANSFER SWITCH VACP-1 HAS TWO INDICATING LIGHTS MOUNTED IN A SEPARATE ENCLOSURE ATTACHED TO VACP-1 CABINET CONNECTED BETWEEN PHASES A & B AND PHASES B & C OF THE EMERGENCY (ALTERNATE) BUS TO INDICATE EMERGENCY POWER AVAILABILITY (REF TO JCP & L DWG. 19642).
 4. AUTO TRANSFER SWITCH VACP-2 HAS TWO WHITE INDICATING LAMPS CONNECTED BETWEEN PHASES A & B AND PHASES B & C OF THE EMERGENCY (ALTERNATE) BUS TO INDICATE EMERGENCY POWER AVAILABILITY. THESE LAMPS ARE MOUNTED ON THE TRANSFER SWITCH CABINETS.
 5. LOCATED AT HVAC CONTROL PANEL OUTSIDE BATTERY "C" ROOM.
 6. FOR REACTOR PROTECTION SYSTEM M-G SET 1-1 & 1-2 CONTROL SEE DRAWING SC-9135911.
 7. ELEVATIONS AND TABULATIONS FOR VITAL MCC 1A2 AND MCC 1B2 SEE SHEET 2 OF 2.
 8. (*) WILL MARK ALL EQUIPMENT NOT VERIFIED DUE TO HIGH RADIATION OR PLANT CONDITIONS.
 - 9.
 10. IED 13607CWL-1EDU1V1, REFER TO VM-OC-5989.

CDL FILE NAME: BR 3013 ST 88
REVISION 0 OF THIS DRAWING WAS REDRAWN FROM BR 3013, REV. 48.
REVISION 7 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADAM FILE VSE.733.11.0013.001-070.

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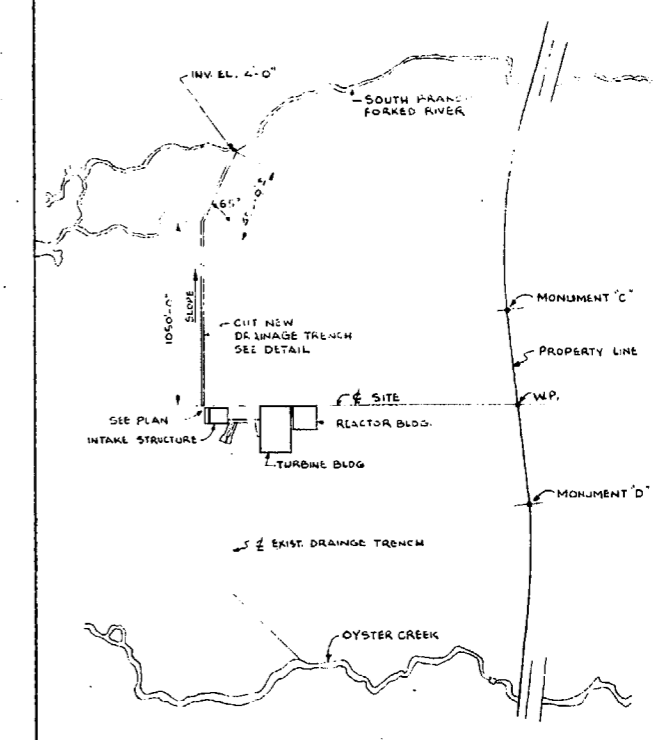
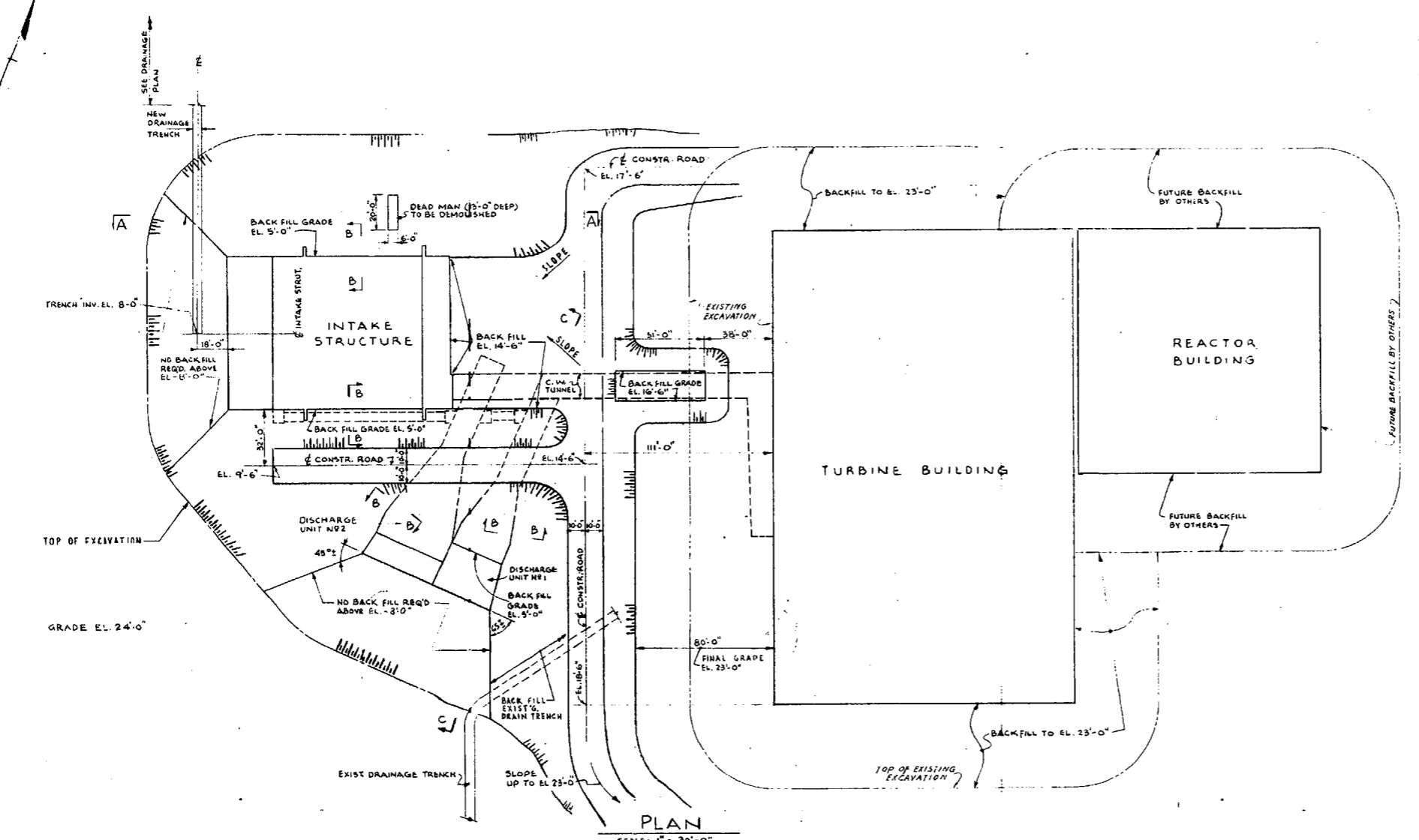
GPU
NUCLEAR

AC VITAL POWER SYSTEM
ONE LINE DIAGRAM
VITAL MCC 1A2 AND 1B2

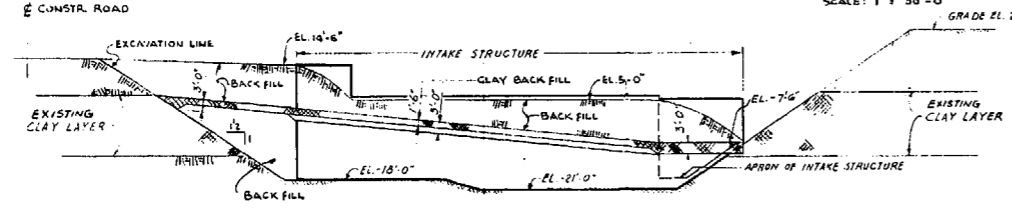
THIS IS A COMPUTER GENERATED DRAWING. DO NOT REUSE IT MANUALLY.

BY: C. BARRY
DATE: 06/09/79
CHECKED: J. L. HARRIS
DATE: 07/16/79
APPROVED: J. L. HARRIS
DATE: 07/16/79

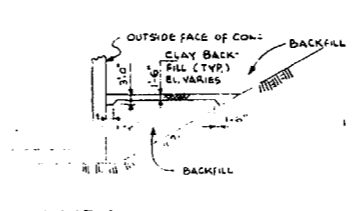
DWG. NO. BR 3013
SHEET NO. 1 OF 2
SCALE: NONE
WA. NO.



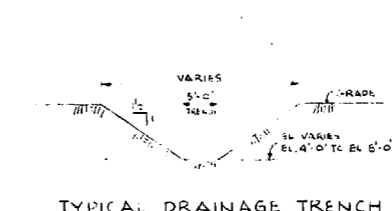
DRAINAGE TRENCH PLAN
SCALE 1" = 400'-0"



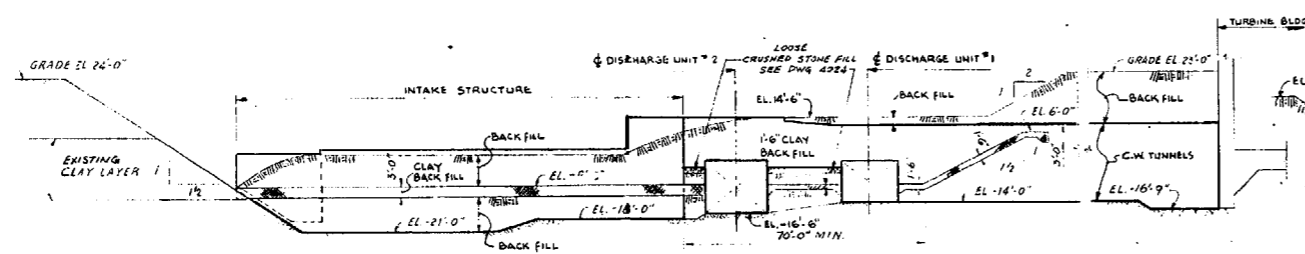
SECTION A-A
SCALE 1" = 10'-0"



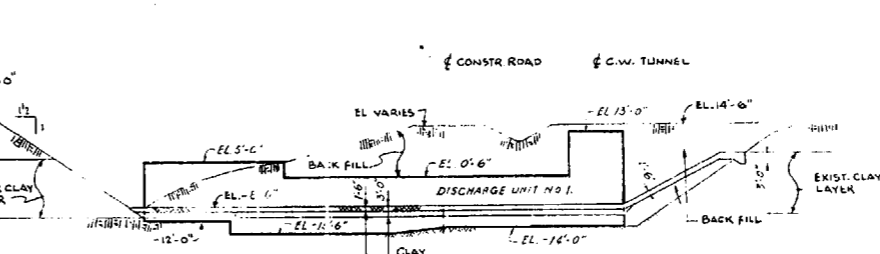
SECTION B-B
SCALE 1" = 10'-0"



TYPICAL DRAINAGE TRENCH
NOT TO SCALE



ELEVATION (ALONG FACE OF INTAKE STRUCTURE & C.W. TUNNEL)
SCALE 1" = 20'-0"



SECTION C-C
SCALE 1" = 20'-0"

- NOTES
1. CLAY BACKFILL TO BE PLACED IN 6" MAX. LAYERS AND COMPACTED WITH SHEEPSFOOT ROLLER PER SPECS. AND WITH NOT LESS THAN 4 PASSES PER LAYER.
 2. SEE DWS 1419 FOR EXISTING CONTOURS, LIMITS OF EXISTING STOCKPILES OF FILL MATERIAL AND WASTE EXCAVATION DISPOSAL AREAS.
 3. SEE DWS 4007 AND EXAMINE SITE FOR EXCAVATION AND BACKFILL PERFORMED BY OTHERS UNDER PREVIOUS SUBCONTRACT.
 4. CONSTRUCTION ROAD SURFACING TO BE AS REQUIRED FOR ACCESS FOR CONSTRUCTION OF TURBINE BLDG. FOUNDATIONS AND CIRC. WATER SYSTEM STRUCTURES.



GENERAL ELECTRIC COMPANY
ATOMIC POWER EQUIPMENT DEPT.
SAN JOSE, CALIFORNIA

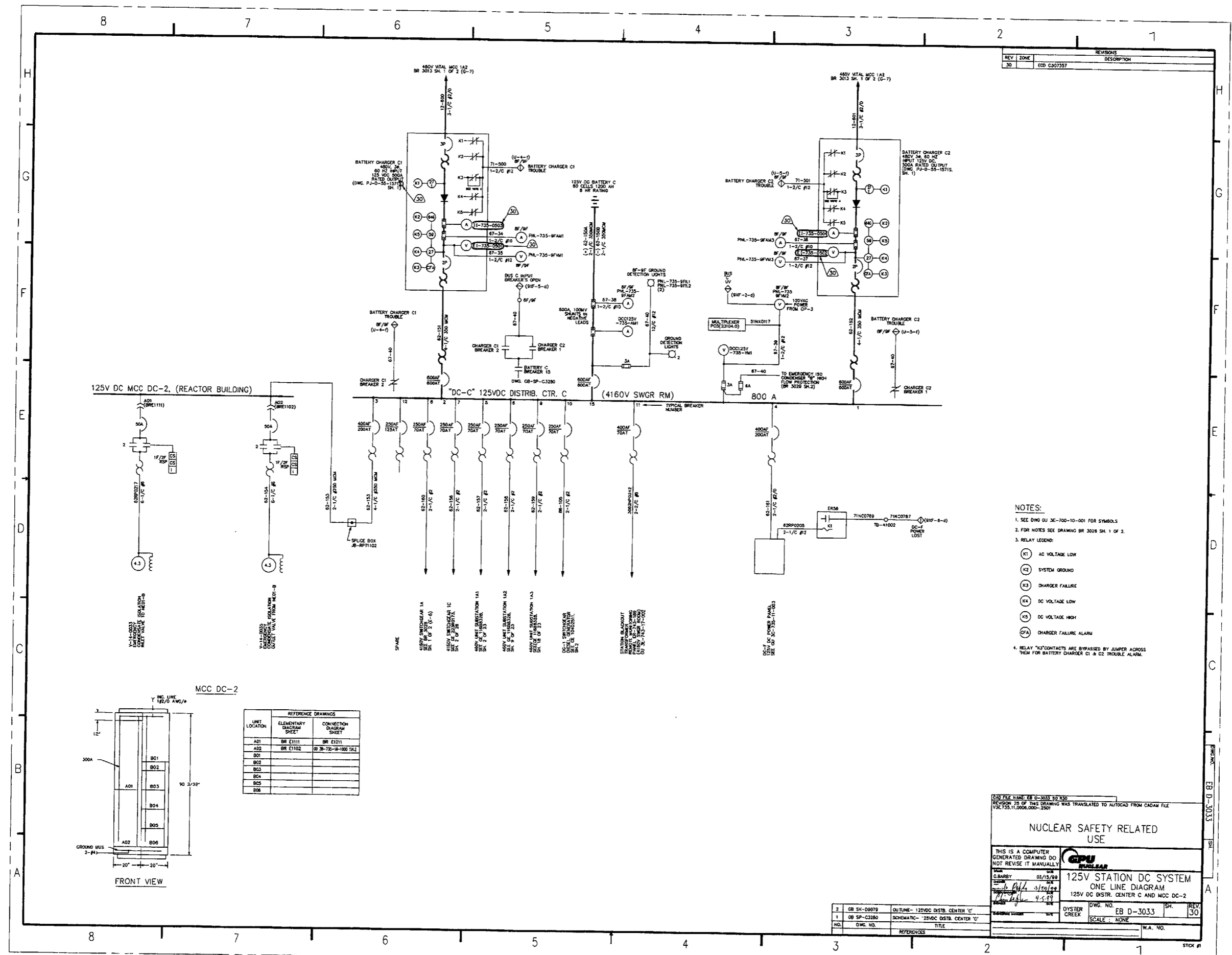
BURNS AND ROE, INC.
ENGINEERS AND CONSTRUCTORS
NEW YORK, N. Y.

INTAKE & TURBINE AREA
EXCAVATION & BACKFILL PLAN &
SECTIONS

JERSEY CENTRAL POWER & LIGHT CO.
OYSTER CREEK STATION UNIT #1

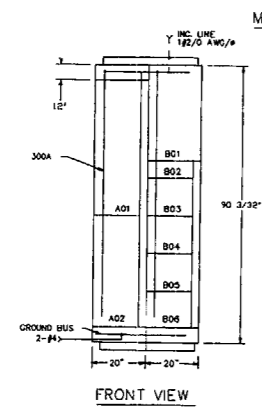
DRAWN BY: C. J. W. G. DATE: 12-25-55
CHECKED BY: R. A. H. DATE: 1-10-56
APPROVED FOR CONSTRUCTION: R. A. H. DATE: 1-10-56
SCALE: AS SHOWN
DWG. 40062

REV. NO.	REVISION	BY	CHKD.	DATE
1	REVISED PLAN, REV. TO INCLUDE AS BUILT CHANGES	R. G.	W. H.	1-10-56
2	REVIEWED FOR "AS BUILT" CONDITIONS	S. B.	J. C.	1-10-56



REV		ZONE		REVISIONS	
NO.		NO.		DESCRIPTION	
30		100	0307357		

- NOTES:
- SEE DWG QJ 3E-700-10-001 FOR SYMBOLS.
 - FOR NOTES SEE DRAWING BR 3028 SH. 1 OF 2.
 - RELAY LEGEND:
 - (K1) AC VOLTAGE LOW
 - (K2) SYSTEM GROUND
 - (K3) CHARGER FAILURE
 - (K4) DC VOLTAGE LOW
 - (K5) DC VOLTAGE HIGH
 - (K6) CHARGER FAILURE ALARM
 - RELAY "C" CONTACTS ARE BYPASSED BY JUMPER ACROSS THEM FOR BATTERY CHARGER C1 & C2 TROUBLE ALARM.



REFERENCE DRAWINGS		
UNIT LOCATION	ELEMENTARY DIAGRAM SHEET	CONNECTION DIAGRAM SHEET
A01	BR E1111	BR E1211
A02	BR E1102	DB 3E-732-10-1002 SH. 2
B01		
B02		
B03		
B04		
B05		
B06		

2	GB SK-09079	OUTLINE - 125VDC DISTR. CENTER 'C'
1	GB SP-C3280	SCHEMATIC - 125VDC DISTR. CENTER 'C'
NO.	DWG. NO.	TITLE
		REFERENCES

FILE NAME: BR D-3033 SH. 1 OF 2
REVISION 25 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADAM FILE V3E735.11.0006.0000-2501

NUCLEAR SAFETY RELATED USE

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GPU NUCLEAR

125V STATION DC SYSTEM
ONE LINE DIAGRAM
125V DC DISTR. CENTER C AND MCC DC-2

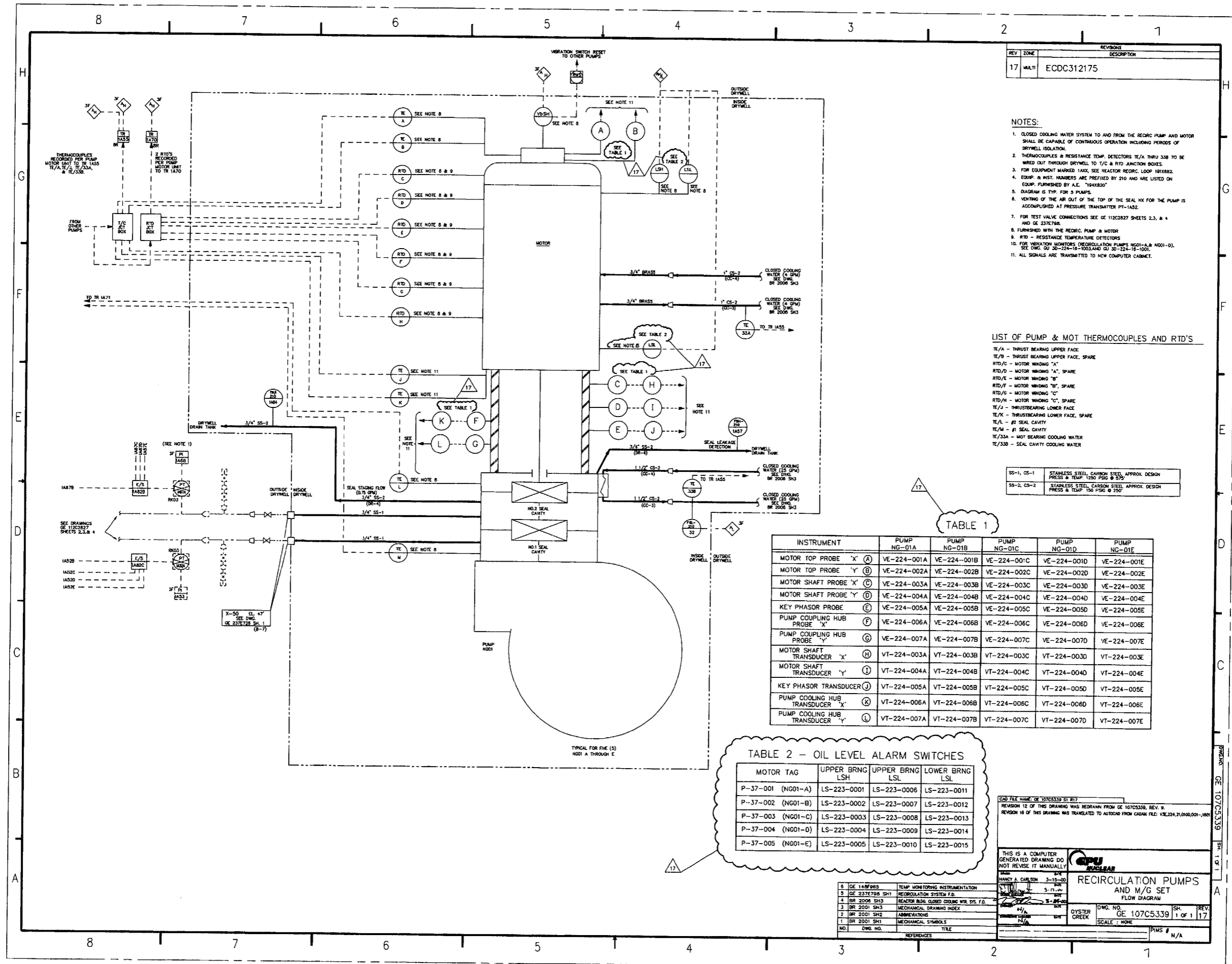
DATE: 03/15/99
BY: C.BARBY
CHECKED: J. P. H. 3/15/99
APPROVED: J. P. H. 3/15/99

W.A. NO.

SCALE: NONE

DWG. NO. EB D-3033 SH. 1 OF 2

REV 30



REV		ZONE		REVISIONS	
NO.	DATE	BY	CHKD	DESCRIPTION	
17				ECDC312175	

- NOTES:
1. CLOSED COOLING WATER SYSTEM TO AND FROM THE RECIRC PUMP AND MOTOR SHALL BE CAPABLE OF CONTINUOUS OPERATION INCLUDING PERIODS OF DRYWELL ISOLATION.
 2. THERMOCOUPLES & RESISTANCE TEMP. DETECTORS TE/A THRU 338 TO BE WIRED OUT THROUGH DRYWELL TO T/C & RTD JUNCTION BOXES.
 3. FOR EQUIPMENT MARKED TANK, SEE REACTOR RECIRC. LOOP 191882.
 4. EQUIP. & INST. NUMBERS ARE PREFIXED BY 210 AND ARE LISTED ON EQUIP. FURNISHED BY A.E. "104X820"
 5. DIAGRAM IS TYP. FOR 5 PUMPS.
 6. VENTING OF THE AIR OUT OF THE TOP OF THE SEAL HX FOR THE PUMP IS ACCOMPLISHED AT PRESSURE TRANSDUCER PT-1A52.
 7. FOR TEST VALVE CONNECTIONS SEE GE 112C2827 SHEETS 2,3, & 4 AND GE 237E78A.
 8. FURNISHED WITH THE RECIRC. PUMP & MOTOR.
 9. RTD - RESISTANCE TEMPERATURE DETECTORS
 10. FOR VIBRATION MONITORS (RECORDING PUMPS NG01-A & NG01-D), SEE DWG. QJ 30-224-10-1000 AND QJ 30-224-10-1001.
 11. ALL SIGNALS ARE TRANSMITTED TO NEW COMPUTER CABINET.

LIST OF PUMP & MOT THERMOCOUPLES AND RTD'S

- TE/A - THRUST BEARING UPPER FACE
TE/B - THRUST BEARING UPPER FACE, SPARE
RTD/C - MOTOR WINDING "A"
RTD/D - MOTOR WINDING "A", SPARE
RTD/E - MOTOR WINDING "B"
RTD/F - MOTOR WINDING "B", SPARE
RTD/G - MOTOR WINDING "C"
RTD/H - MOTOR WINDING "C", SPARE
TE/J - THRUSTBEARING LOWER FACE
TE/K - THRUSTBEARING LOWER FACE, SPARE
TE/L - #2 SEAL CAVITY
TE/M - #1 SEAL CAVITY
TE/33A - MOT BEARING COOLING WATER
TE/33B - SEAL CAVITY COOLING WATER

SS-1, CS-1	STAINLESS STEEL, CARBON STEEL APPROX. DESIGN PRESS & TEMP. 1550 PSIG @ 575°
SS-2, CS-2	STAINLESS STEEL, CARBON STEEL APPROX. DESIGN PRESS & TEMP. 150 PSIG @ 250°

TABLE 1

INSTRUMENT	PUMP NG-01A	PUMP NG-01B	PUMP NG-01C	PUMP NG-01D	PUMP NG-01E
MOTOR TOP PROBE "X" (A)	VE-224-001A	VE-224-001B	VE-224-001C	VE-224-001D	VE-224-001E
MOTOR TOP PROBE "Y" (B)	VE-224-002A	VE-224-002B	VE-224-002C	VE-224-002D	VE-224-002E
MOTOR SHAFT PROBE "X" (C)	VE-224-003A	VE-224-003B	VE-224-003C	VE-224-003D	VE-224-003E
MOTOR SHAFT PROBE "Y" (D)	VE-224-004A	VE-224-004B	VE-224-004C	VE-224-004D	VE-224-004E
KEY PHASOR PROBE (E)	VE-224-005A	VE-224-005B	VE-224-005C	VE-224-005D	VE-224-005E
PUMP COUPLING HUB PROBE "X" (F)	VE-224-006A	VE-224-006B	VE-224-006C	VE-224-006D	VE-224-006E
PUMP COUPLING HUB PROBE "Y" (G)	VE-224-007A	VE-224-007B	VE-224-007C	VE-224-007D	VE-224-007E
MOTOR SHAFT TRANSDUCER "X" (H)	VT-224-003A	VT-224-003B	VT-224-003C	VT-224-003D	VT-224-003E
MOTOR SHAFT TRANSDUCER "Y" (I)	VT-224-004A	VT-224-004B	VT-224-004C	VT-224-004D	VT-224-004E
KEY PHASOR TRANSDUCER (J)	VT-224-005A	VT-224-005B	VT-224-005C	VT-224-005D	VT-224-005E
PUMP COUPLING HUB TRANSDUCER "X" (K)	VT-224-006A	VT-224-006B	VT-224-006C	VT-224-006D	VT-224-006E
PUMP COUPLING HUB TRANSDUCER "Y" (L)	VT-224-007A	VT-224-007B	VT-224-007C	VT-224-007D	VT-224-007E

TABLE 2 - OIL LEVEL ALARM SWITCHES

MOTOR TAG	UPPER BRNG LSH	UPPER BRNG LSL	LOWER BRNG LSL
P-37-001 (NG01-A)	LS-223-0001	LS-223-0006	LS-223-0011
P-37-002 (NG01-B)	LS-223-0002	LS-223-0007	LS-223-0012
P-37-003 (NG01-C)	LS-223-0003	LS-223-0008	LS-223-0013
P-37-004 (NG01-D)	LS-223-0004	LS-223-0009	LS-223-0014
P-37-005 (NG01-E)	LS-223-0005	LS-223-0010	LS-223-0015

CAD FILE NAME: GE 107C5339 SH 17
REVISION 12 OF THIS DRAWING WAS REDRAWN FROM GE 107C5339, REV. 9.
REVISION 18 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADAM FILE: V3E224.11.0100.001-180

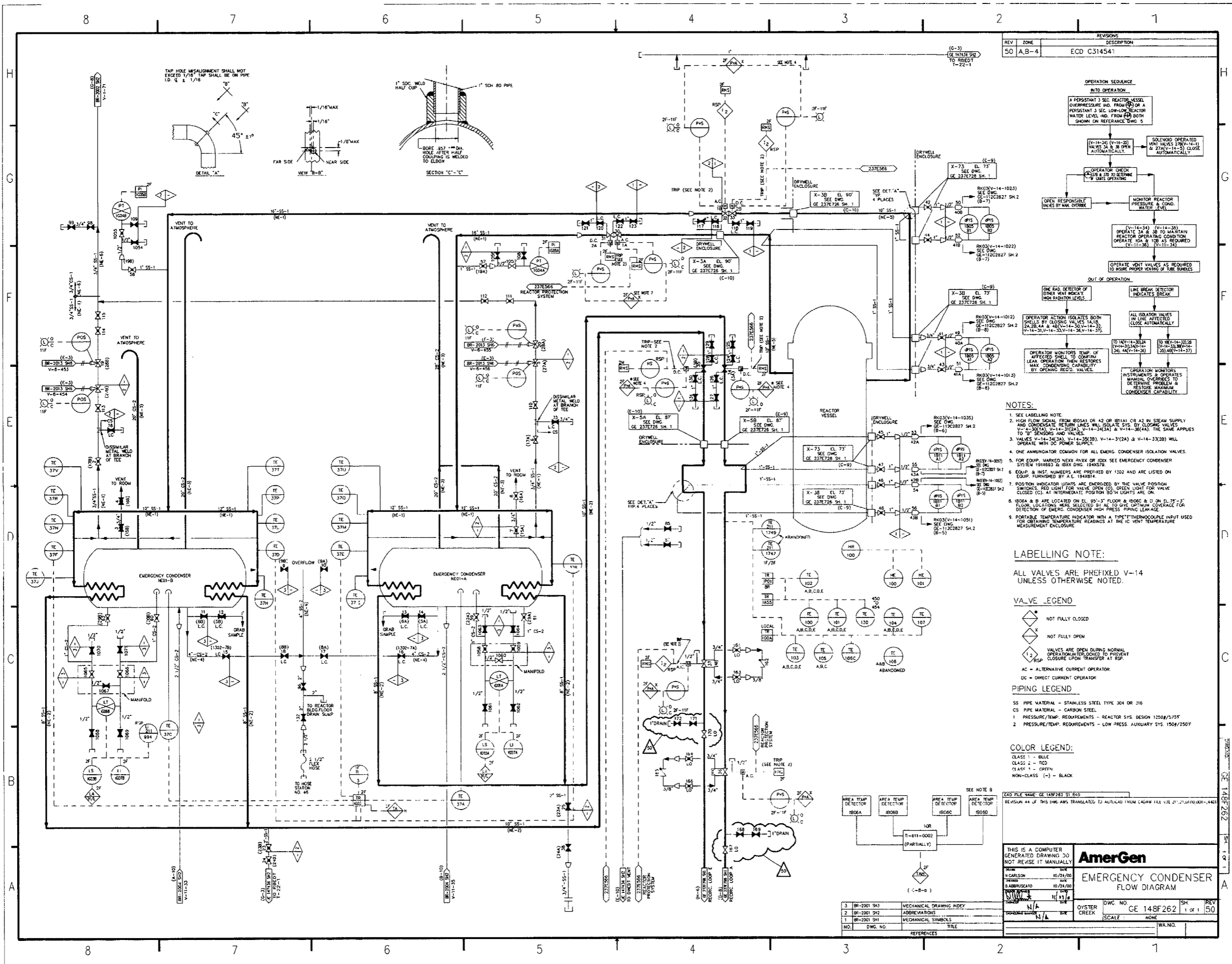
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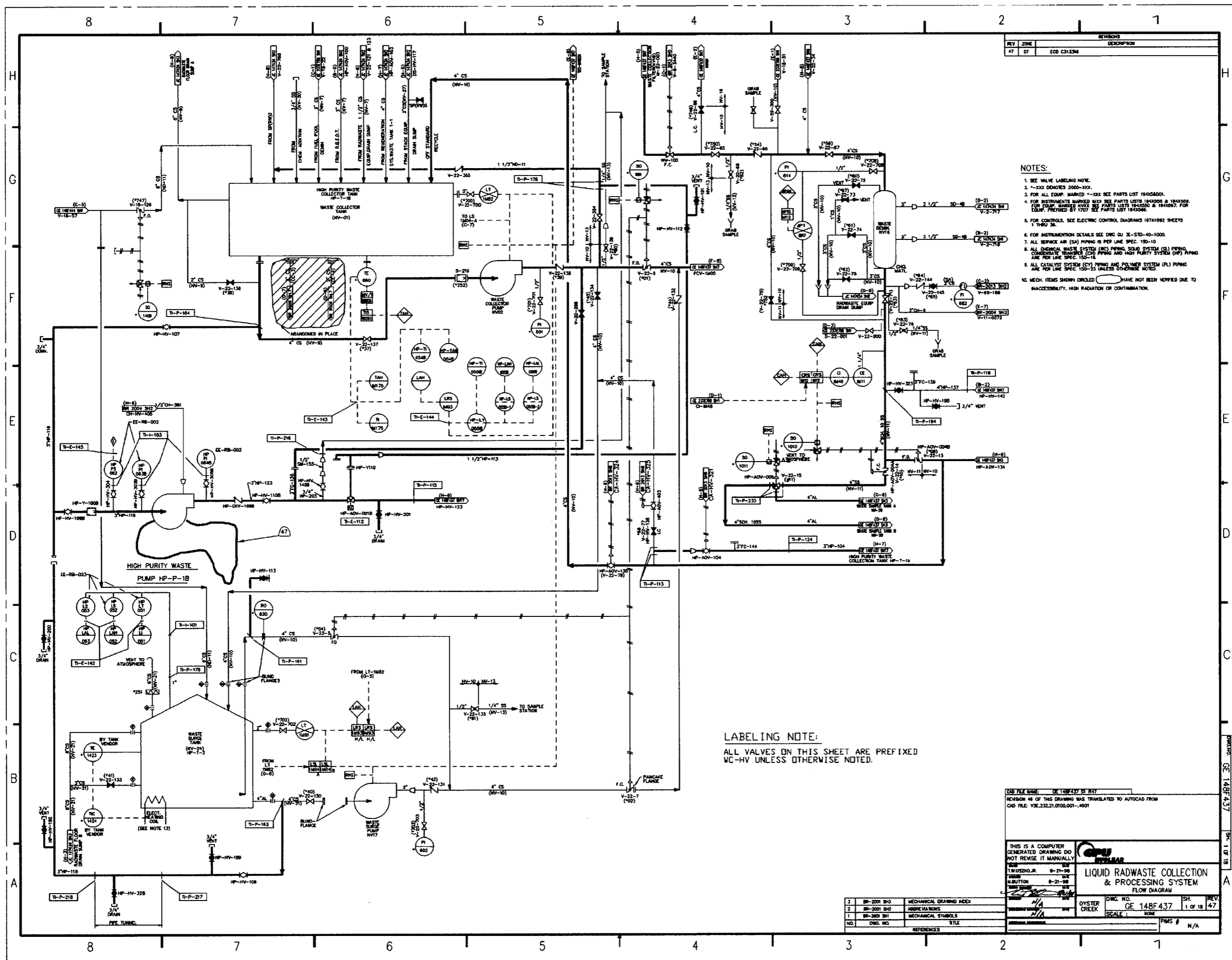
NAME: HANCOCK, CARLSON
DATE: 3-15-00
PROJECT: 3-17-00
SHEET: 3-27-00

GE 107C5339
RECIRCULATION PUMPS AND M/G SET
FLOW DIAGRAM

DWG. NO. 107C5339
SCALE: NONE
PMS: N/A

NO.	DWG. NO.	REFERENCES	TITLE
6	GE 148F983		TEMP MONITORING INSTRUMENTATION
5	GE 237E78B SH1		RECIRCULATION SYSTEM P.D.
4	BR 2006 SH3		REACTOR BLDG. CLOSED COOLING WTR SYS. P.D.
3	BR 2001 SH3		MECHANICAL DRAWING INDEX
2	BR 2001 SH2		ABBREVIATIONS
1	BR 2001 SH1		MECHANICAL SYMBOLS





NOTES:

1. SEE VALVE LABELING NOTE.
2. -XXX DENOTES 2000-XXX.
3. FOR ALL EQUIP. MARKED -12X SEE PARTS LIST 19458001.
4. FOR INSTRUMENTS MARKED -12X SEE PARTS LIST 19458001 & 19458002. FOR EQUIP. MARKED -12X SEE PARTS LIST 19458001 & 19458002. FOR EQUIP. MARKED BY 1707 SEE PARTS LIST 19458001.
5. FOR CONTROLS, SEE ELECTRIC CONTROL DIAGRAMS 1671082 SHEETS 1 THRU 36.
6. FOR INSTRUMENTATION DETAILS SEE DWD ON 16-STD-40-1000.
7. ALL SERVICE AIR (SA) PIPING IS PER LINE SPEC. 150-10.
8. ALL CHEMICAL WASTE SYSTEM (CW) PIPING, SOLID SYSTEM (SS) PIPING, CONDENSATE TRANSPORT (CT) PIPING AND HIGH PURITY SYSTEM (HP) PIPING ARE PER LINE SPEC. 150-10.
9. ALL CATALYST SYSTEM (CY) PIPING AND POLYMER SYSTEM (PL) PIPING ARE PER LINE SPEC. 150-10 UNLESS OTHERWISE NOTED.
10. MECH. ITEMS SHOWN CIRCLED HAVE NOT BEEN VERIFIED DUE TO INACCESSIBILITY, HIGH RADIATION OR CONTAMINATION.

LABELING NOTE:

ALL VALVES ON THIS SHEET ARE PREFIXED WC-HV UNLESS OTHERWISE NOTED.

DATE FILED: 06/14/87 BY: RY
 REVISION 48 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM
 CAD FILE: V02.232.21.0700.001-4001

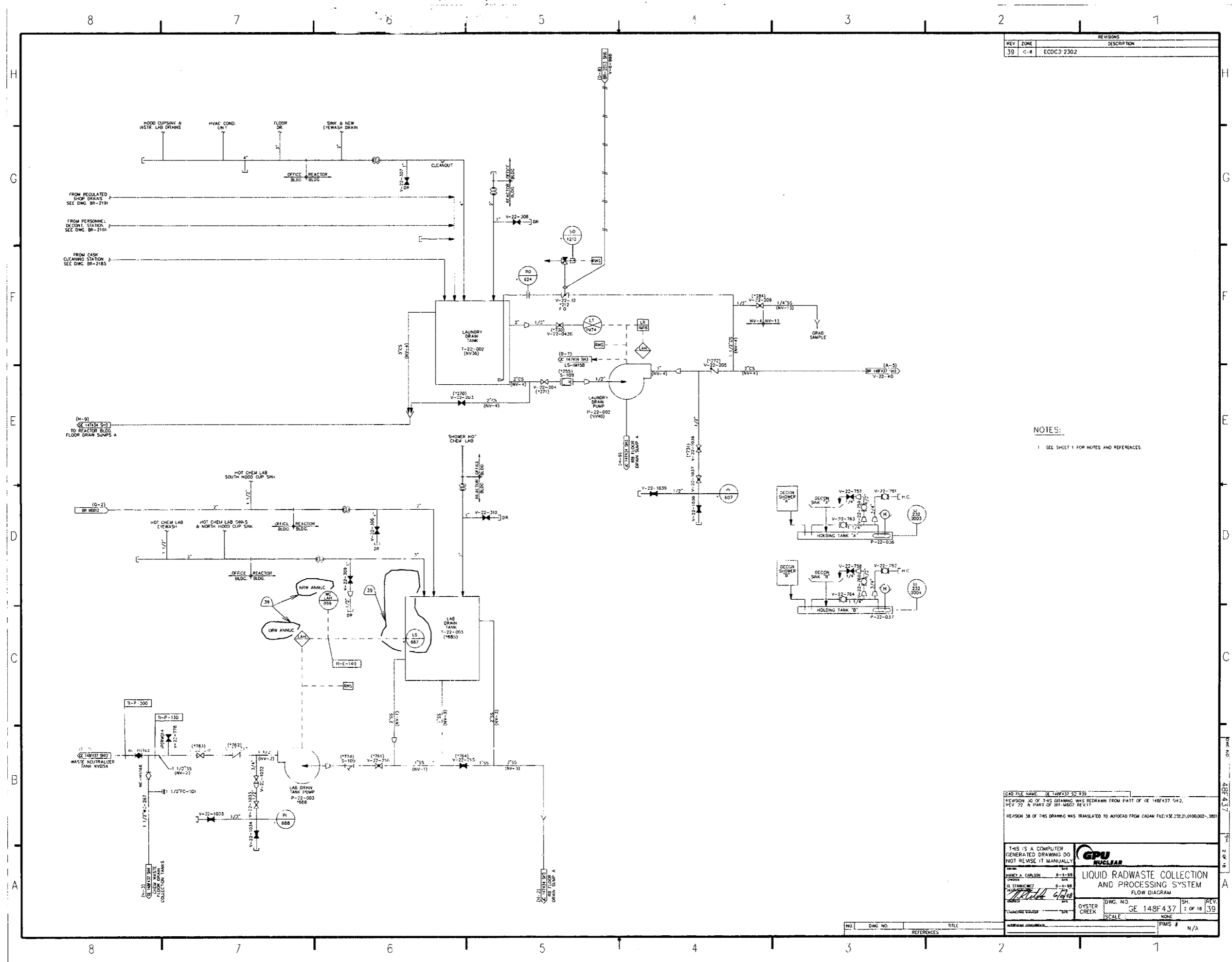
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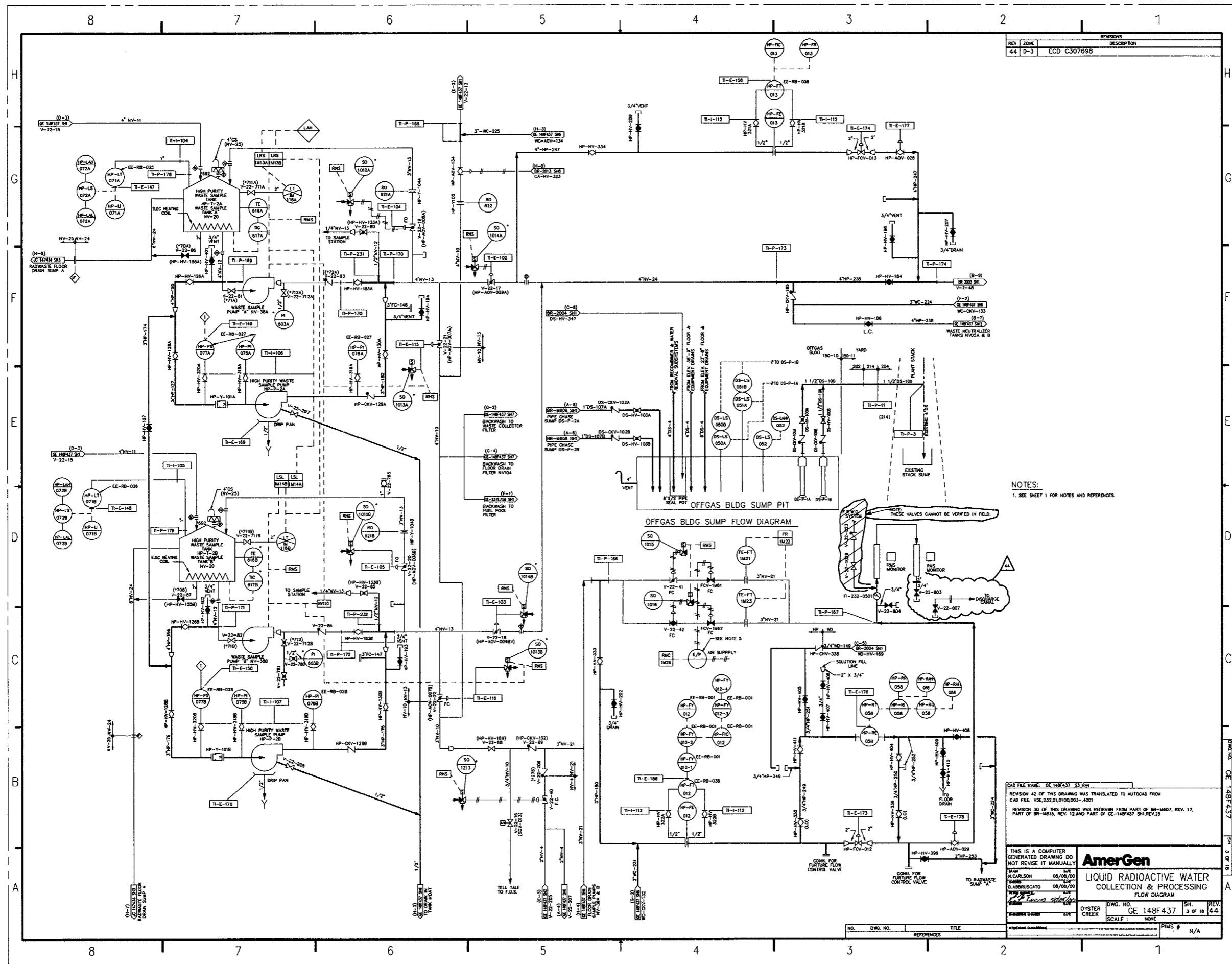
DATE: 6-21-88
 BY: T. M. LUSZKO, JR.
 CHECKED: 6-21-88
 BY: M. BRITTON

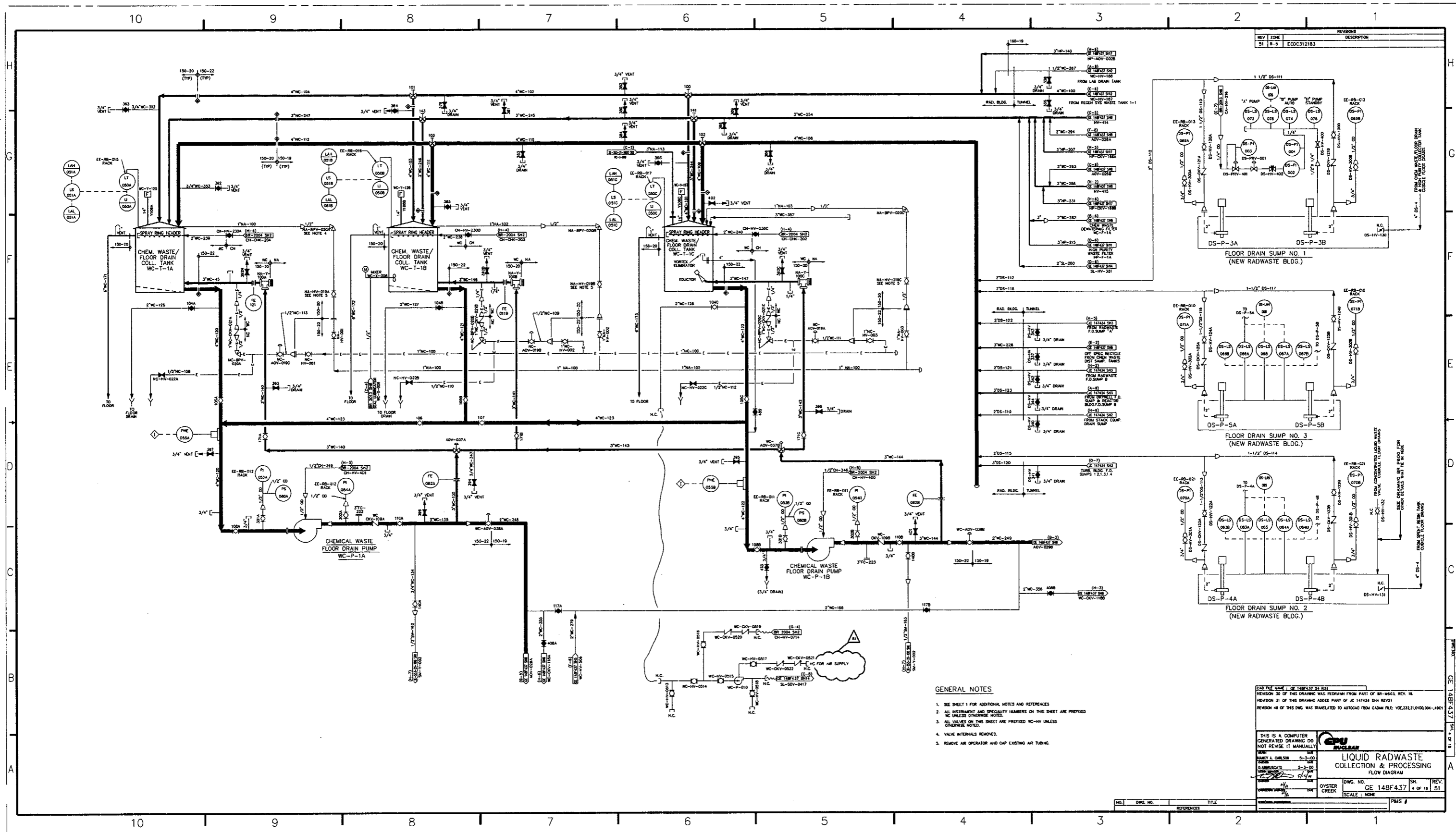
LIQUID RADWASTE COLLECTION
 & PROCESSING SYSTEM
 FLOW DIAGRAM

DWG. NO. 148F437 SH. 1 OF 18
 OYSTER CREEK SCALE: NONE
 PMS # N/A

NO.	DWG. NO.	TITLE	REFERENCES
1	BP-2001 SH3	MECHANICAL DRAWING INDEX	
2	BP-2001 SH2	ABBREVIATIONS	
3	BP-2001 SH1	MECHANICAL SYMBOLS	







- GENERAL NOTES
1. SEE SHEET 1 FOR ADDITIONAL NOTES AND REFERENCES.
 2. ALL INSTRUMENT AND SPECIFICATION NUMBERS ON THIS SHEET ARE PREFIXED UNLESS OTHERWISE NOTED.
 3. ALL VALVES ON THIS SHEET ARE PREFIXED UNLESS OTHERWISE NOTED.
 4. VALVE INTERNALS REMOVED.
 5. REMOVE AIR OPERATOR AND CAP EXISTING AIR TUBING.

THIS IS A COMPUTER GENERATED DRAWING. DO NOT REUSE IT MANUALLY.

GE 148F437

LIQUID RADWASTE COLLECTION & PROCESSING FLOW DIAGRAM

DWG. NO. GE 148F437 SH. 4 OF 18

SCALE: NONE

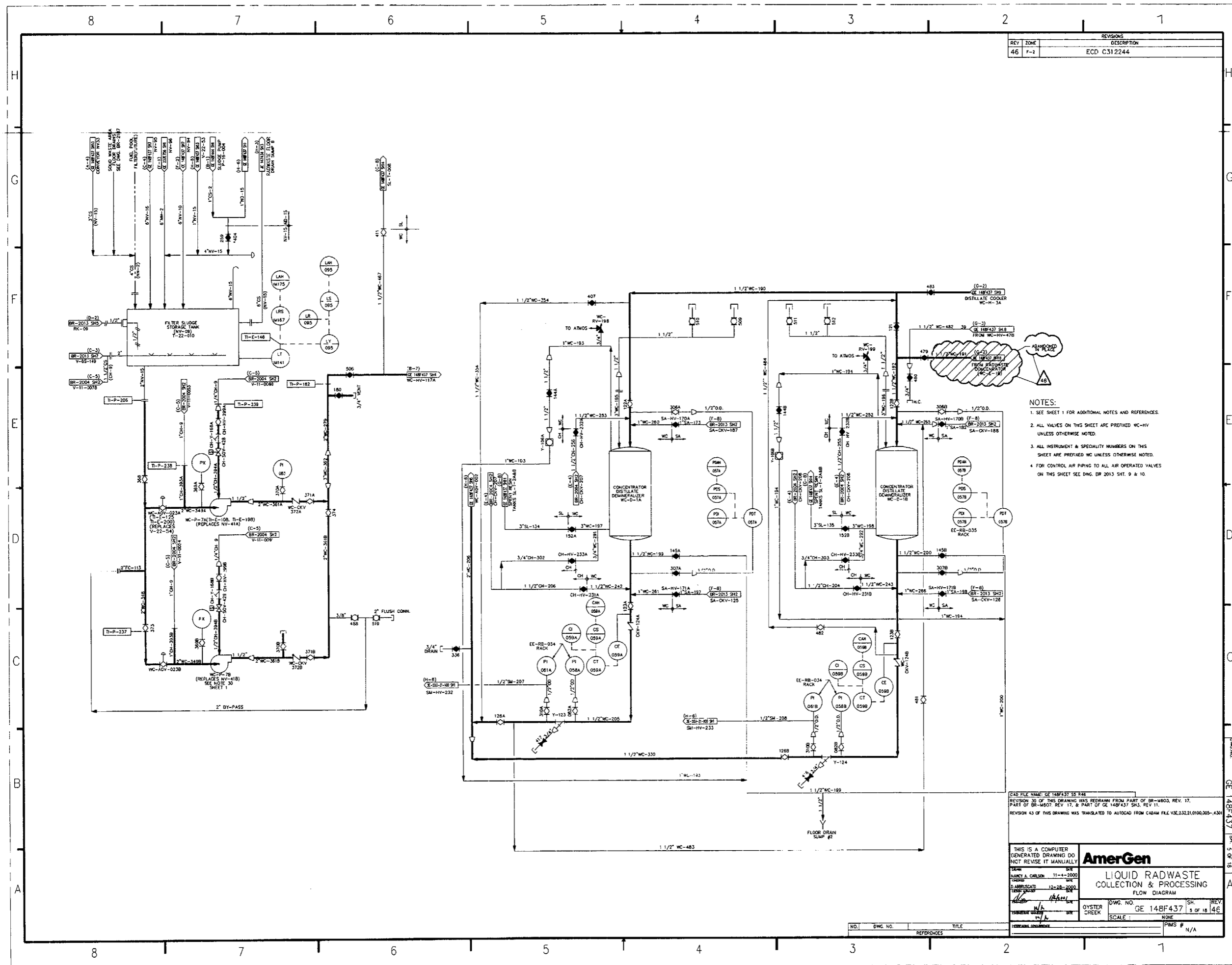
DATE: 10/1/83

BY: J. CARLSON

CHECKED: J. CARLSON

APPROVED: J. CARLSON

REVISION 48 OF THIS Dwg. WAS TRANSLATED TO AUTOCAD FROM CADAM FILE: VOR2321.0100.004-4901

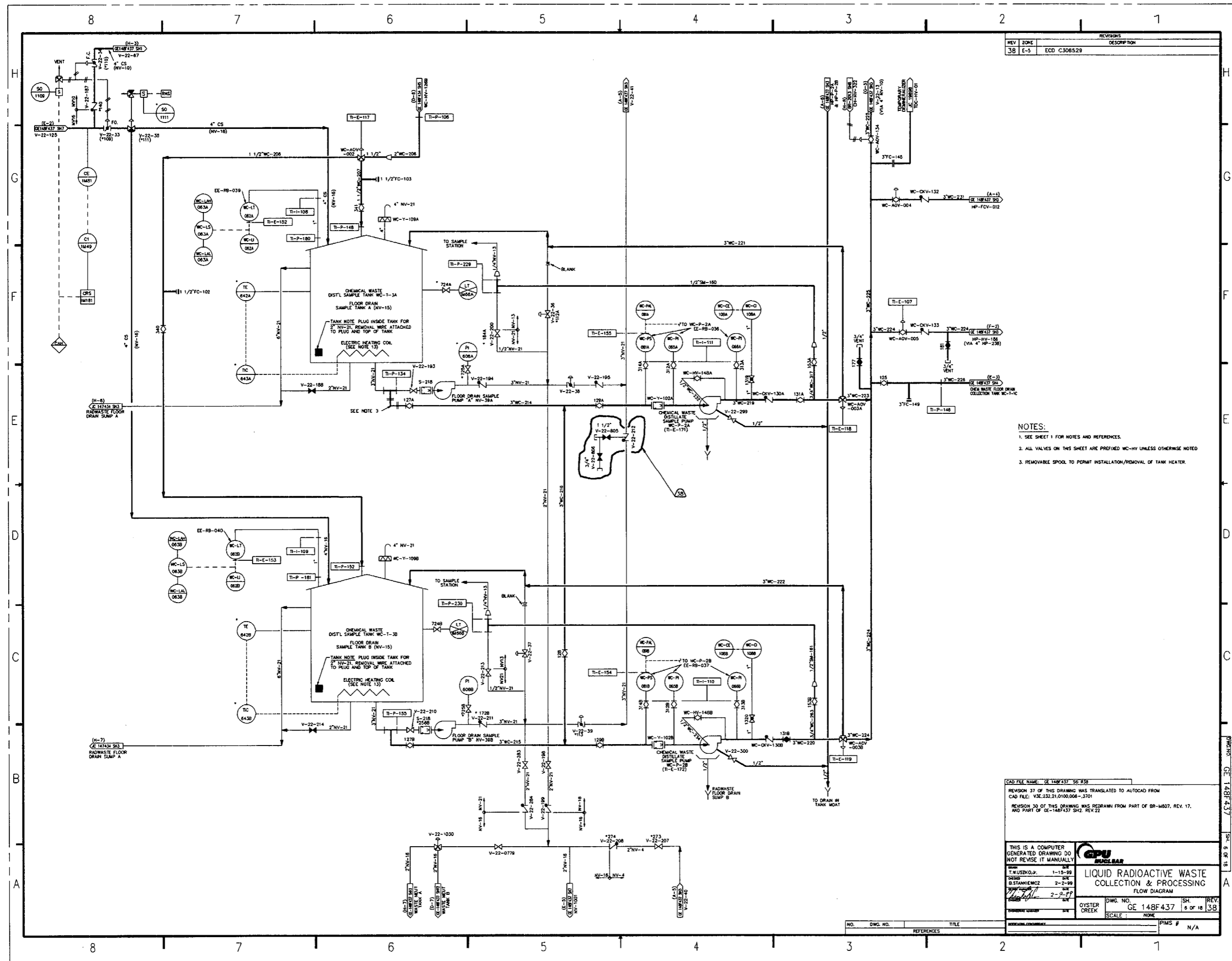


REV		DESCRIPTION	
46	F-2	ECD C312244	

- NOTES:
- SEE SHEET 1 FOR ADDITIONAL NOTES AND REFERENCES.
 - ALL VALVES ON THIS SHEET ARE PREFIXED WC-HV UNLESS OTHERWISE NOTED.
 - ALL INSTRUMENT & SPECIALTY NUMBERS ON THIS SHEET ARE PREFIXED WC UNLESS OTHERWISE NOTED.
 - FOR CONTROL AIR PIPING TO ALL AIR OPERATED VALVES ON THIS SHEET SEE DWG. BR 2013 SH1, 9 & 10.

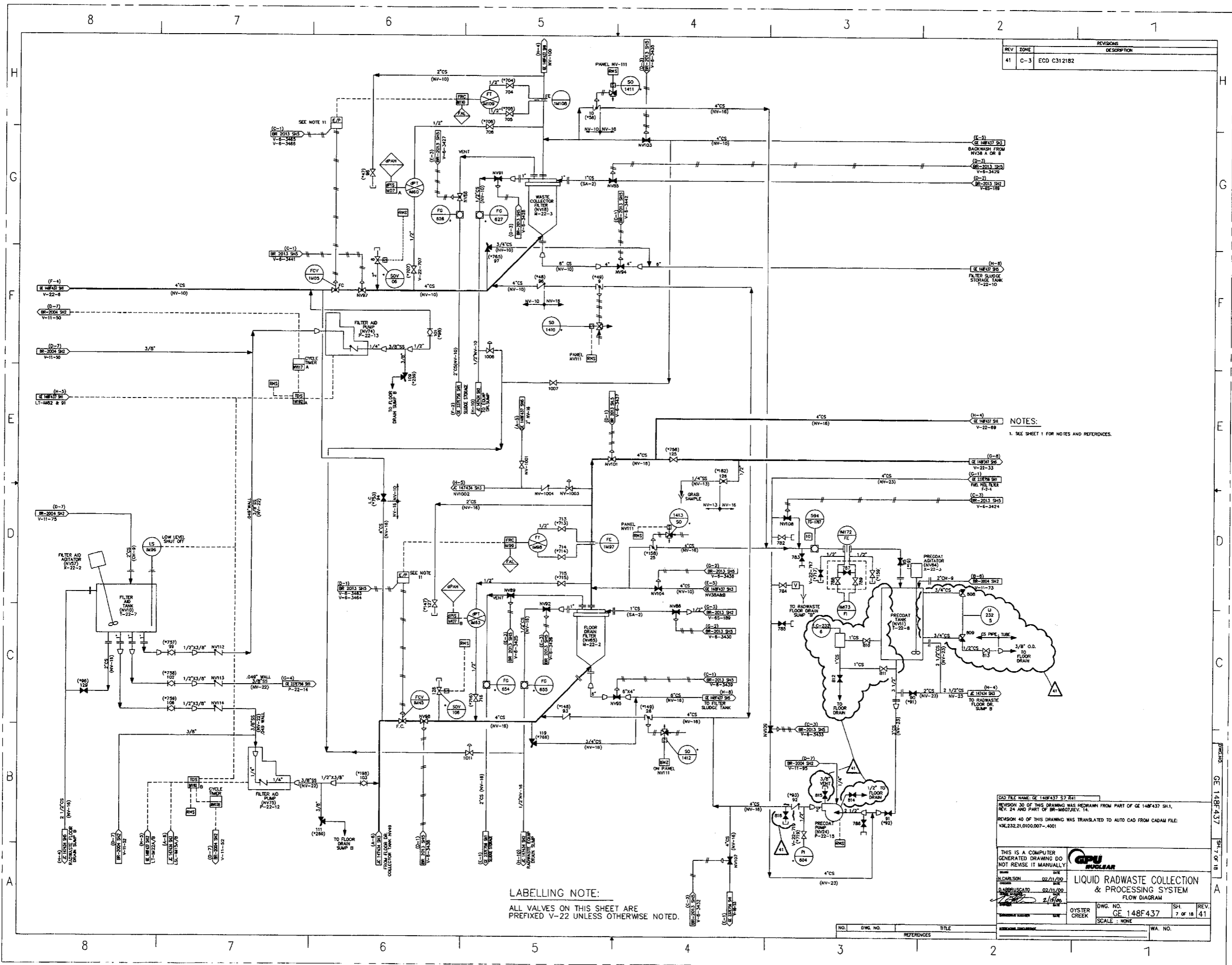
CAD FILE NAME: GE 148F437 35 R46
REVISION 30 OF THIS DRAWING WAS REDRAWN FROM PART OF BR-1602, REV. 17, PART OF BR-1607, REV. 17, & PART OF GE 148F437 SH1, REV. 11.
REVISION 43 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADAM FILE V3E.232.21.0100.005-4301

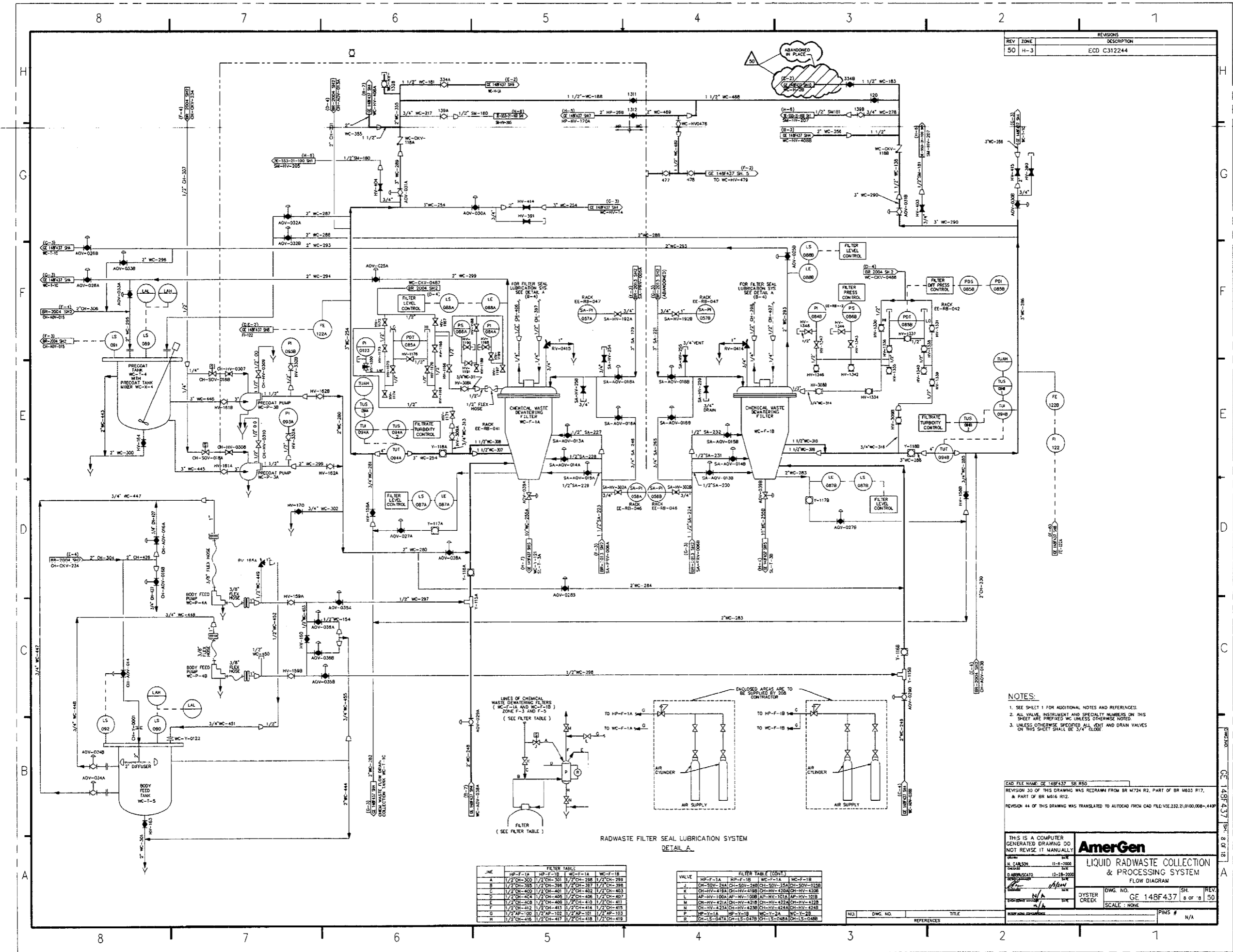
THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY		AmerGen	
DESIGNED JAMES A. CARLSON 11-4-2000	DRAWN JAMES A. CARLSON 11-4-2000	LIQUID RADWASTE COLLECTION & PROCESSING FLOW DIAGRAM	
CHECKED JAMES A. CARLSON 11-4-2000	APPROVED JAMES A. CARLSON 11-4-2000	OWEN NO GE 148F437	SH. 5 OF 18
SCALE : NONE		PIMS # N/A	



- NOTES:
- SEE SHEET 1 FOR NOTES AND REFERENCES.
 - ALL VALVES ON THIS SHEET ARE PREFIXED WC-HV UNLESS OTHERWISE NOTED.
 - REMOVABLE SPOOL TO PERMIT INSTALLATION/REMOVAL OF TANK HEATER.

CAD FILE NAME: GE 148F437 50 R38	
REVISION 37 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CAD FILE: V3E.332.21.0100.008-.3701	
REVISION 30 OF THIS DRAWING WAS REDRAWN FROM PART OF BR-4607, REV. 17, AND PART OF GE-148F437 SH2, REV.22	
THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY	
DESIGNED BY: T.WUSZKO, JR.	DATE: 1-15-99
DRAWN BY: B. STANKIEWICZ	DATE: 2-2-99
CHECKED BY: [Signature]	DATE: 2-9-99
APPROVED BY: [Signature]	DATE: [Blank]
GPU MUGBAR	
LIQUID RADIOACTIVE WASTE COLLECTION & PROCESSING FLOW DIAGRAM	
OYSTER CREEK	DWG. NO. GE 148F437 SH. 6 OF 18
SCALE: NONE	REV. 38
PIMS # N/A	





NOTES:
1. SEE SHEET 1 FOR ADDITIONAL NOTES AND REFERENCES.
2. ALL VALVE, INSTRUMENT AND SPECIALTY NUMBERS ON THIS SHEET ARE PREFIXED UNLESS OTHERWISE NOTED.
3. UNLESS OTHERWISE SPECIFIED ALL VENT AND DRAIN VALVES ON THIS SHEET SHALL BE 3/4" GLOBE.

CAD FILE NAME: GE 148F437 SB R50
REVISION 30 OF THIS DRAWING WAS REDRAWN FROM BR M724 R2, PART OF BR M603 R17, & PART OF BR M616 R12.
REVISION 44 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CAD FILE: VSE.232.21.0100.0008-440P

THIS IS A COMPUTER GENERATED DRAWING DO NOT REUSE IT MANUALLY

AmerGen
LIQUID RADWASTE COLLECTION & PROCESSING SYSTEM
FLOW DIAGRAM

OWNER: OYSTER CREEK
DWG. NO.: GE 148F437
SCALE: NONE
PIMS # N/A

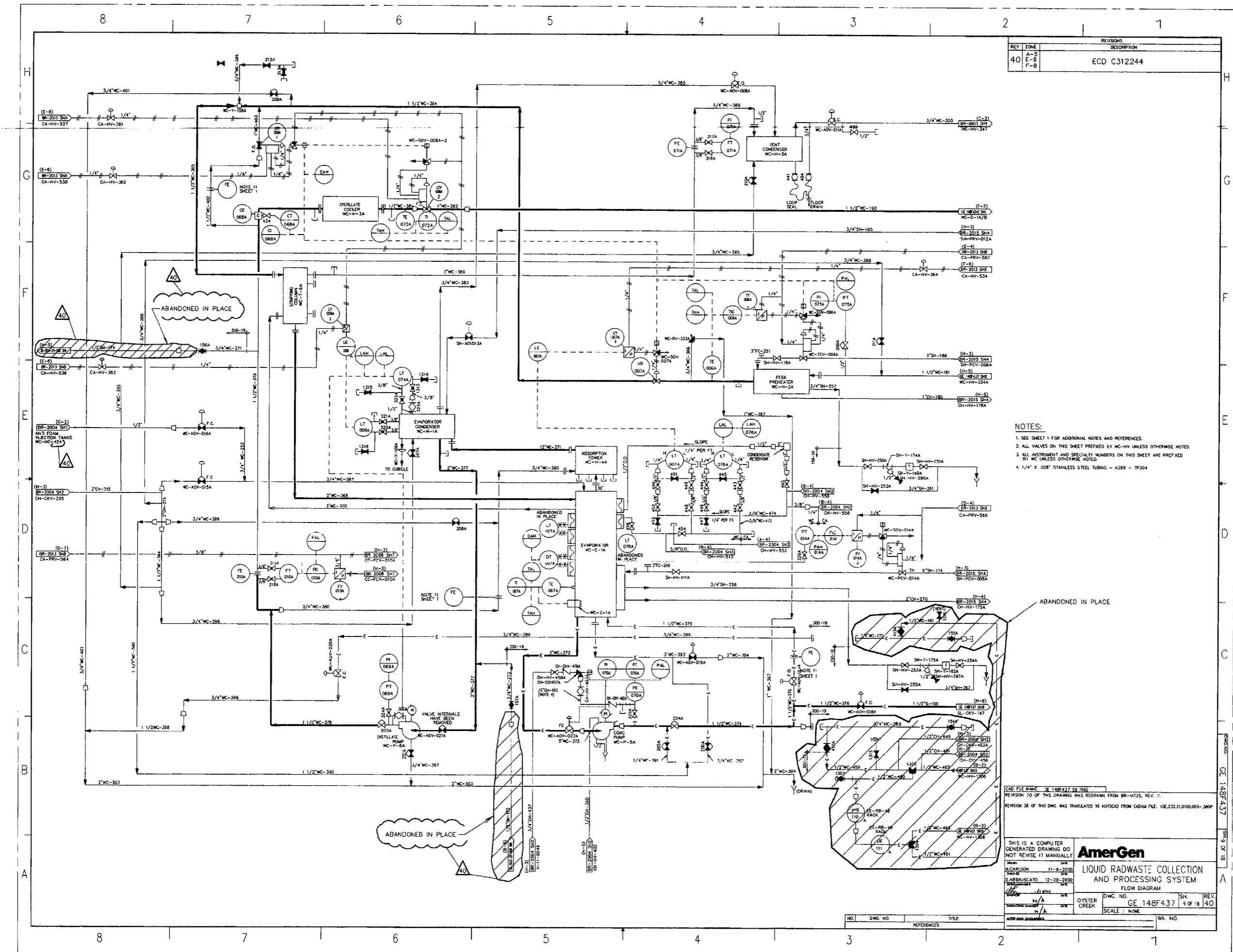
DATE: 11-8-2000
BY: [Signature]
CHECKED: [Signature]
DATE: 12-18-2000
BY: [Signature]
DATE: 12-18-2000
BY: [Signature]

NO. DWG. NO. REFERENCES TITLE

FILTER TABLE			
JNE	HP-F-1A	HP-F-2B	WC-F-1A
A	1/2" CH-300	1/2" CH-301	1/2" CH-299
B	1/2" CH-302	1/2" CH-303	1/2" CH-304
C	1/2" CH-305	1/2" CH-306	1/2" CH-307
D	1/2" CH-308	1/2" CH-309	1/2" CH-310
E	1/2" CH-311	1/2" CH-312	1/2" CH-313
F	1/2" CH-314	1/2" CH-315	1/2" CH-316
G	1/2" CH-317	1/2" CH-318	1/2" CH-319
H	1/2" CH-320	1/2" CH-321	1/2" CH-322

FILTER TABLE (CONT.)			
VALVE	HP-F-1A	HP-F-2B	WC-F-1A
J	CH-SOV-244	CH-SOV-245	CH-SOV-246
K	CH-HV-418A	CH-HV-418B	CH-HV-418C
L	AP-HV-100A	AP-HV-100B	AP-HV-100C
M	CH-HV-421A	CH-HV-421B	CH-HV-421C
N	CH-HV-422A	CH-HV-422B	CH-HV-422C
O	CH-HV-423A	CH-HV-423B	CH-HV-423C
P	HP-F-1A	HP-F-2B	WC-F-1A
Q	CH-S-047A	CH-S-047B	CH-S-047C

RADWASTE FILTER SEAL LUBRICATION SYSTEM
DETAIL A



REVISIONS	
REV	DESCRIPTION
40	ECD C312244

- NOTES:
- SEE SHEET 1 FOR ADDITIONAL NOTES AND REFERENCES.
 - ALL VALVES ON THIS SHEET PREFIXED BY WC-HV UNLESS OTHERWISE NOTED.
 - ALL INSTRUMENT AND SPECIALTY NUMBERS ON THIS SHEET ARE PREFIXED BY WC UNLESS OTHERWISE NOTED.
 - 1/4" X .028" STAINLESS STEEL TUBING - A269 - TP304

CAD FILE NAME: 148F437.DWG
REVISION 30 OF THIS DRAWING WAS REDRAWN FROM BR-4725, REV. 7.
REVISION 38 OF THIS DWG WAS TRANSLATED TO AUTOCAD FROM CADAM FILE: V02.232.21.0100.009-3809

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

AmerGen

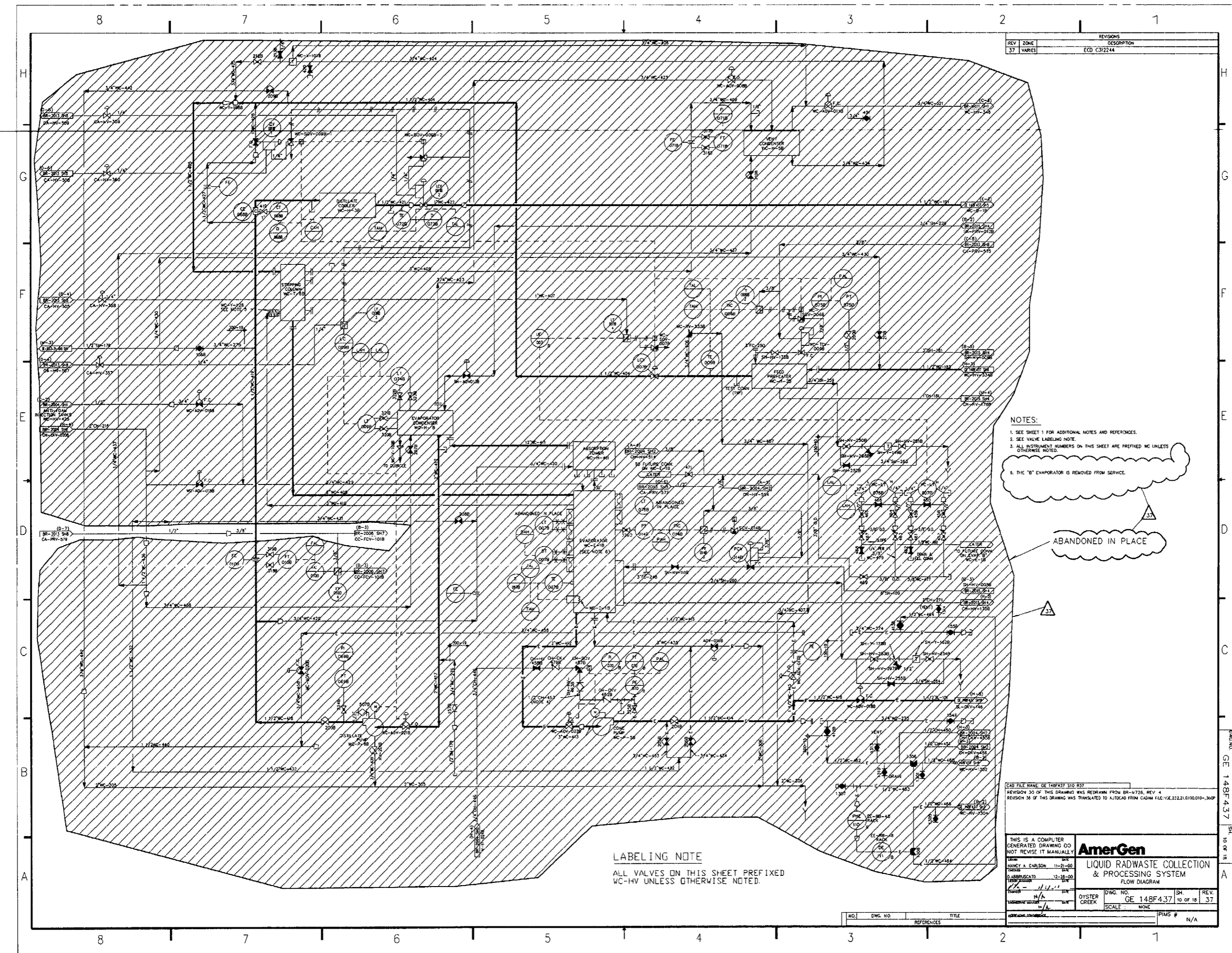
LIQUID RADWASTE COLLECTION AND PROCESSING SYSTEM
FLOW DIAGRAM

DATE: 11-8-2000
DRAWN BY: J. L. B. / J. L. B.
CHECKED BY: J. L. B. / J. L. B.
DATE: 12-28-2000
DRAWN BY: J. L. B. / J. L. B.
CHECKED BY: J. L. B. / J. L. B.

DWG. NO. GE 148F437
SCALE: NONE

REV. 40

NO.	DWG. NO.	TITLE	REFERENCES

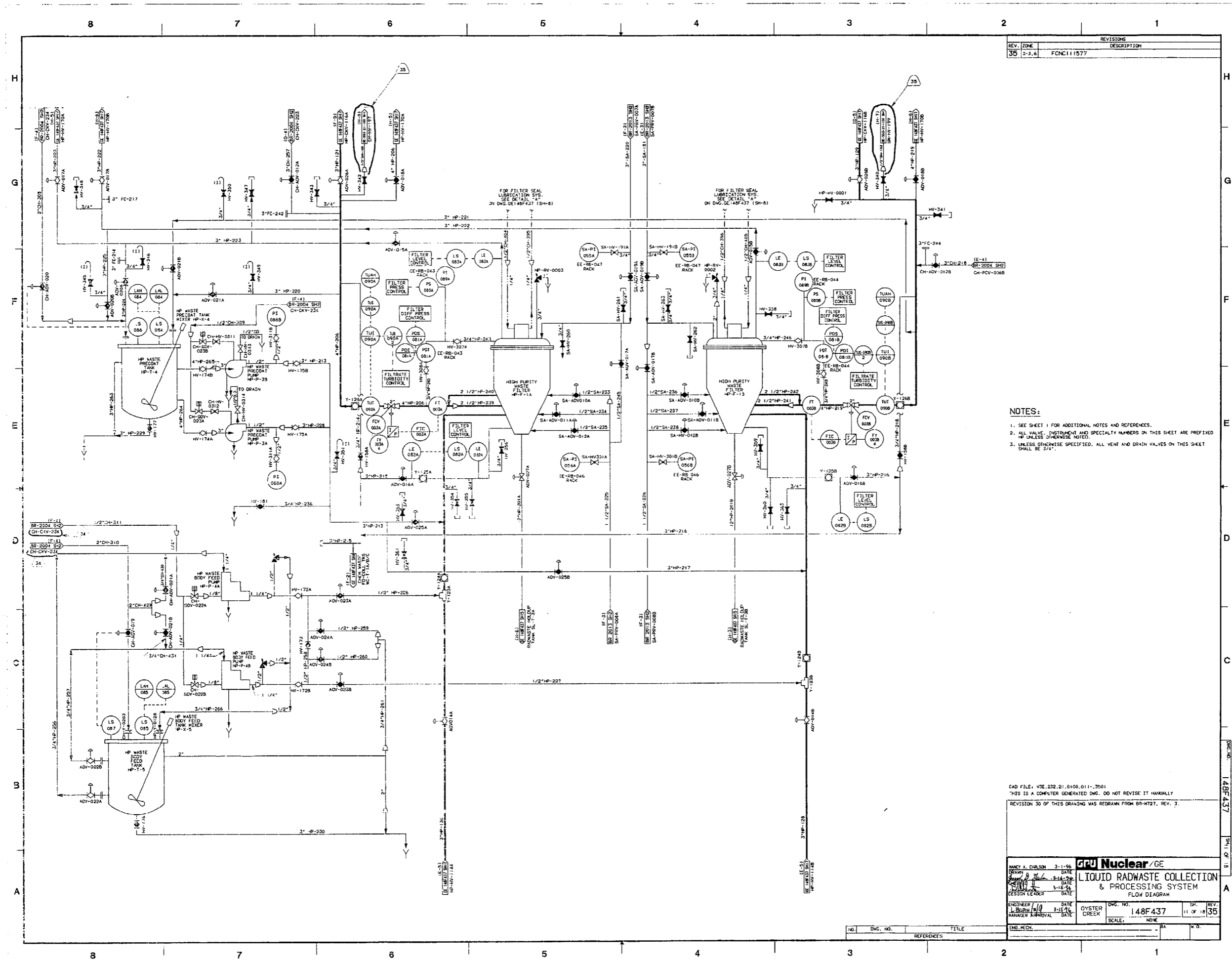


REVISIONS	
REV	DESCRIPTION
37	VARIES

- NOTES:
- SEE SHEET 1 FOR ADDITIONAL NOTES AND REFERENCES.
 - SEE VALVE LABELING NOTE.
 - ALL INSTRUMENT NUMBERS ON THIS SHEET ARE PREFIXED WC UNLESS OTHERWISE NOTED.
 - THE "B" EVAPORATOR IS REMOVED FROM SERVICE.

CAD FILE NAME: GE 148F437 S10 R37
REVISION 30 OF THIS DRAWING WAS REDRAWN FROM BR-W726, REV 4
REVISION 36 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADWIN FILE:VXZ2221.0100010-360P

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY	
AmerGen	
LIQUID RADWASTE COLLECTION & PROCESSING SYSTEM	
FLOW DIAGRAM	
DATE: 11-21-00 DRAWN BY: NANCY A. CARLSON CHECKED BY: J. J. CARLSON APPROVED BY: J. J. CARLSON	DWG. NO. 148F437 SCALE: NONE PIMS # N/A

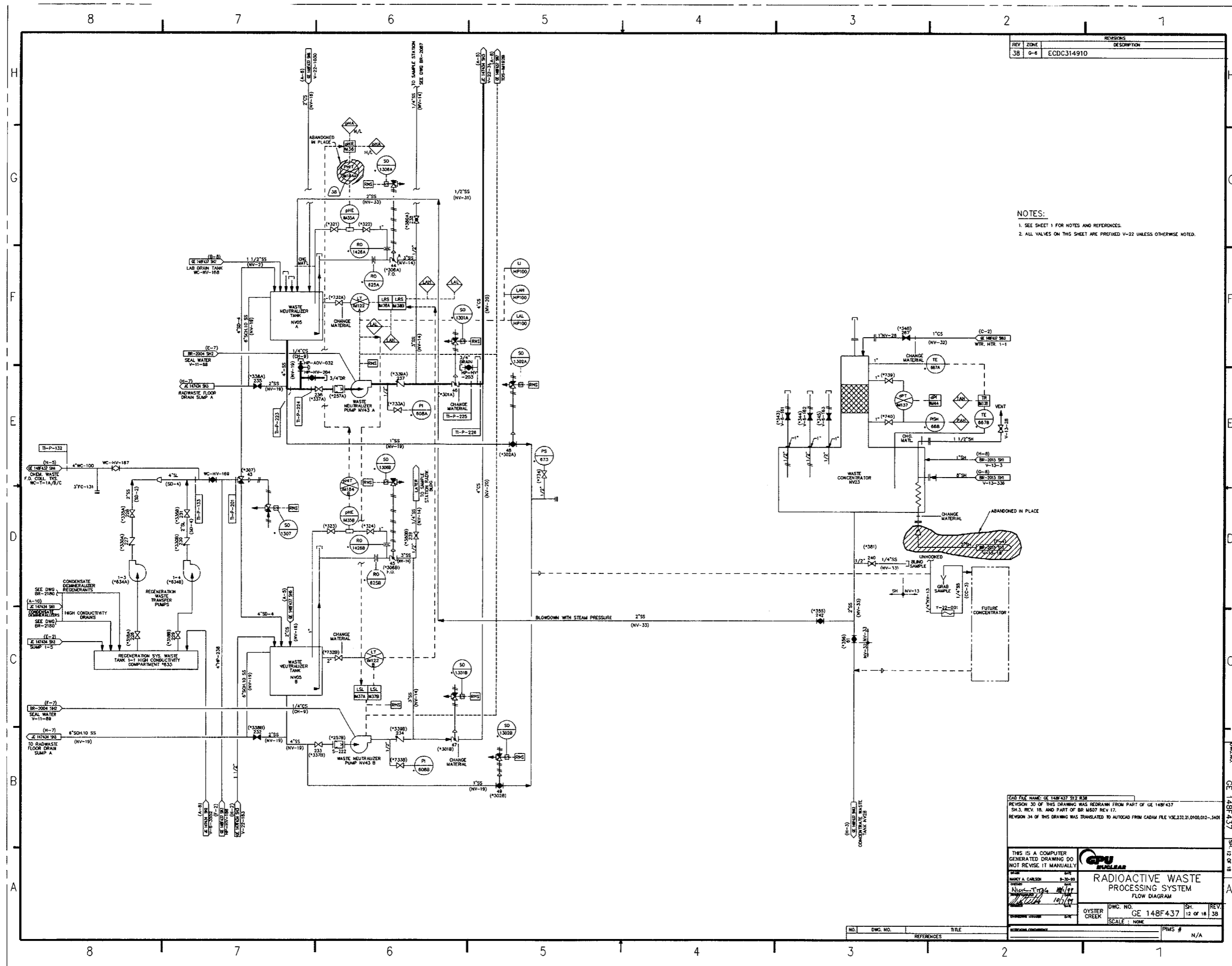


REVISIONS	
REV.	DESCRIPTION
35	FCN111577

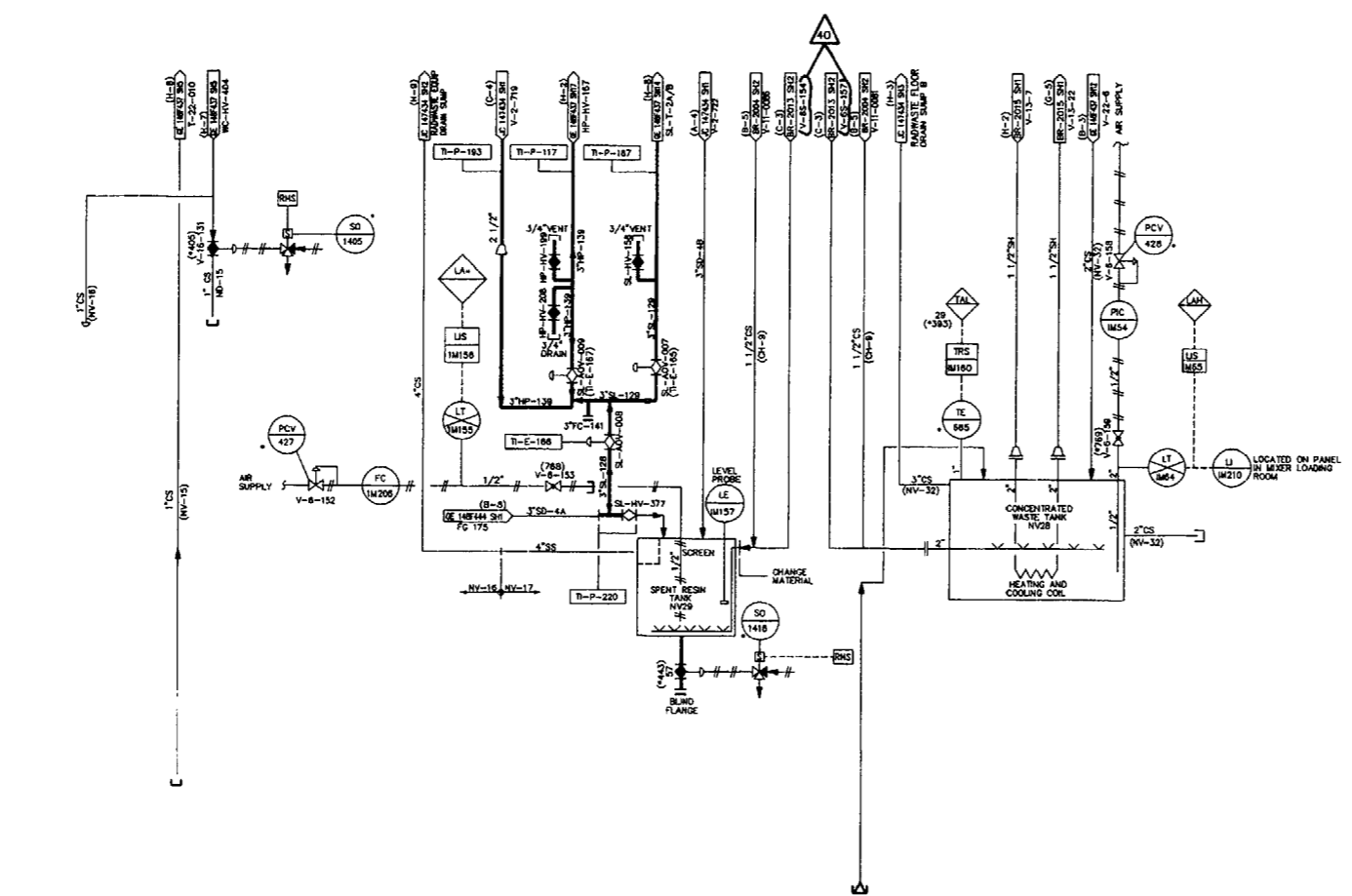
- NOTES:
- SEE SHEET 1 FOR ADDITIONAL NOTES AND REFERENCES.
 - ALL VALVE, INSTRUMENT AND SPECIALTY NUMBERS ON THIS SHEET ARE PREFIXED "HP" UNLESS OTHERWISE NOTED.
 - UNLESS OTHERWISE SPECIFIED, ALL VENT AND DRAIN VALVES ON THIS SHEET SHALL BE 3/4".

CAD FILE: V3E.232.21.0100.011-3501
THIS IS A COMPUTER GENERATED DWG. DO NOT REVISE IT MANUALLY.
REVISION 30 OF THIS DRAWING WAS REDRAWN FROM BR-W727, REV. 3.

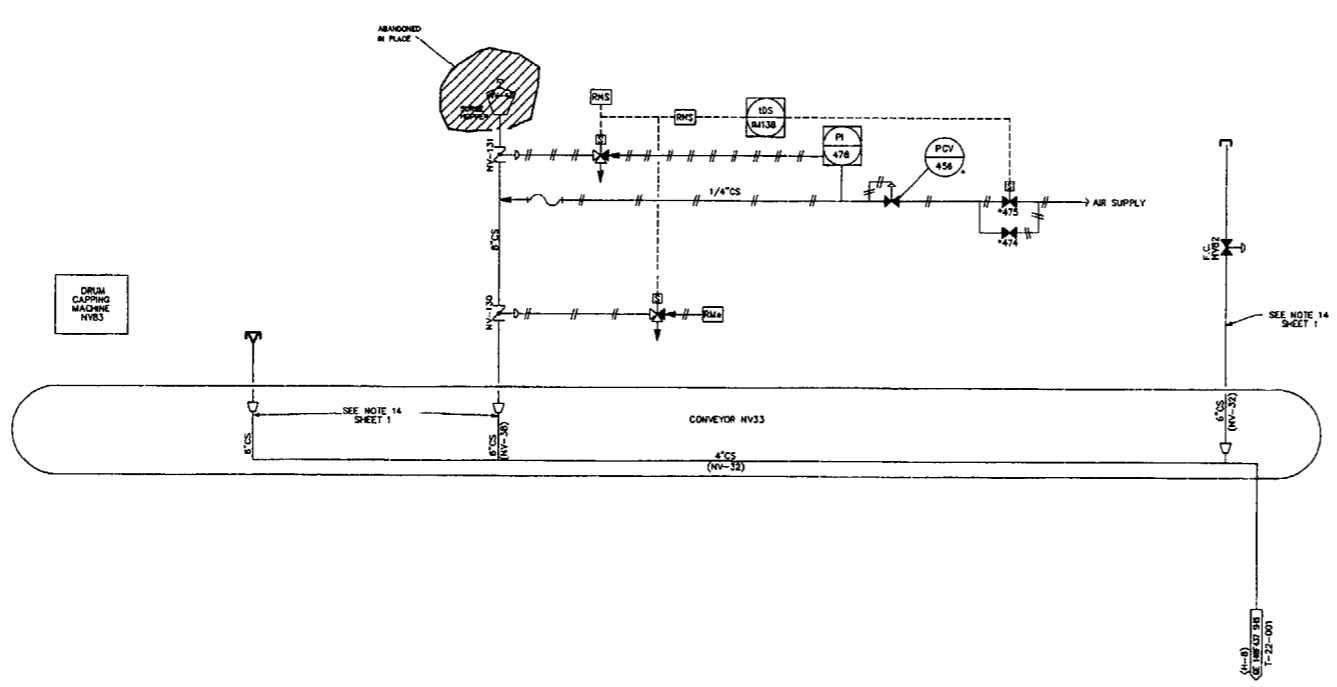
NANCY A. CHILSON 3-1-96		GPU Nuclear/GE	
DESIGNED BY	DATE	LIQUID RADWASTE COLLECTION & PROCESSING SYSTEM	
DRWN BY	DATE	FLOW DIAGRAM	
CHECKED BY	DATE		
DESIGN LEADER	DATE		
ENGINEER	DATE		
MANAGER APPROVAL	DATE		
END. RECD.			
DWG. NO.	148F437	SCALE	NONE
TITLE	LIQUID RADWASTE COLLECTION & PROCESSING SYSTEM	SH.	11 OF 18
REV.	35	REV.	35



REVISIONS	
REV	DESCRIPTION
40	H-5 ECD C307472



- NOTES:
- SEE SHEET 1 FOR NOTES AND REFERENCES
 - ALL VALVES ON THIS SHEET ARE PREFIXED V-22 UNLESS OTHERWISE NOTED.

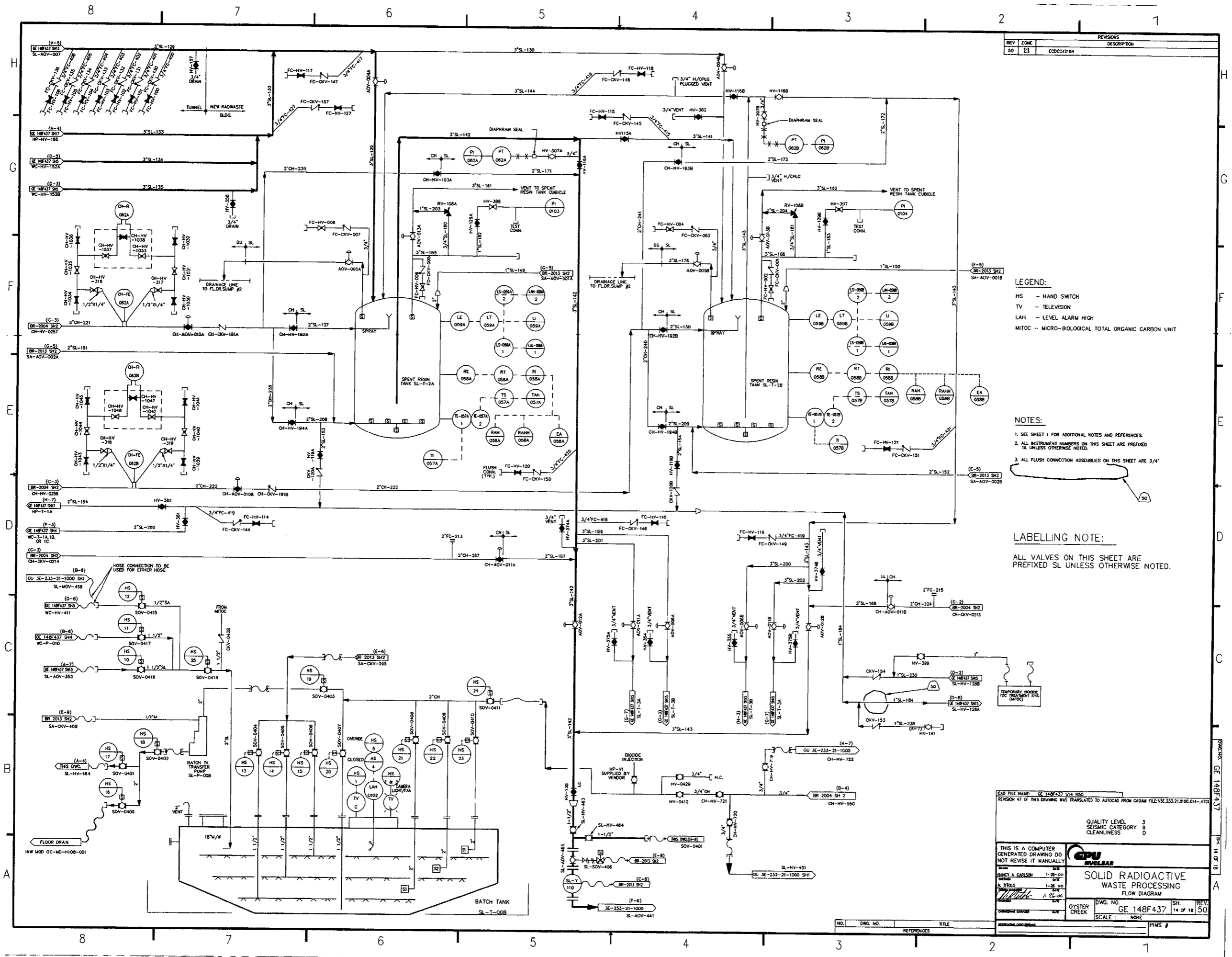


CAD FILE NAME: GE 148F437 S13.R40

REVISION 30 OF THIS DRAWING WAS REDRAWN FROM PART OF GE 148F437 S13, REV18 AND PART OF BR-4607, REV. 17.
 REVISION 31 OF THIS DWS WAS TRANSLATED TO AUTOCAD FROM CADMAN FILE:V36,233,01,0100,013-,3001

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY		AmerGen	
NAME: NANCY A. CARLSON DATE: 08/26/00 D. APPROVED: 08/24/00 PROJECT: 148F437		RADIOACTIVE WASTE PROCESSING SYSTEM FLOW DIAGRAM	
OYSTER CREEK SCALE: NONE	DWS. NO. GE 148F437 SHE. 13 OF 18	REV. 40	PMS # N/A

NO.	DWG. NO.	REFERENCES	TITLE
-----	----------	------------	-------



REVISIONS		DESCRIPTION
REV	ZONE	
50	E3	ECDC312184

LEGEND:

- HS - HAND SWITCH
- TV - TELEVISION
- LAH - LEVEL ALARM HIGH
- MITOC - MICRO-BIOLOGICAL TOTAL ORGANIC CARBON UNIT

NOTES:

- SEE SHEET 1 FOR ADDITIONAL NOTES AND REFERENCES.
- ALL INSTRUMENT NUMBERS ON THIS SHEET ARE PREFIXED SL UNLESS OTHERWISE NOTED.
- ALL FLUSH CONNECTION ASSEMBLIES ON THIS SHEET ARE 3/4"

LABELLING NOTE:

ALL VALVES ON THIS SHEET ARE PREFIXED SL UNLESS OTHERWISE NOTED.

CAD FILE NAME: GE 148F437 S14 R50
REVISION 47 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADAM FILE:3E.233.21.0100.014-.4701

QUALITY LEVEL	3
SEISMIC CATEGORY	II
CLEANLINESS	D

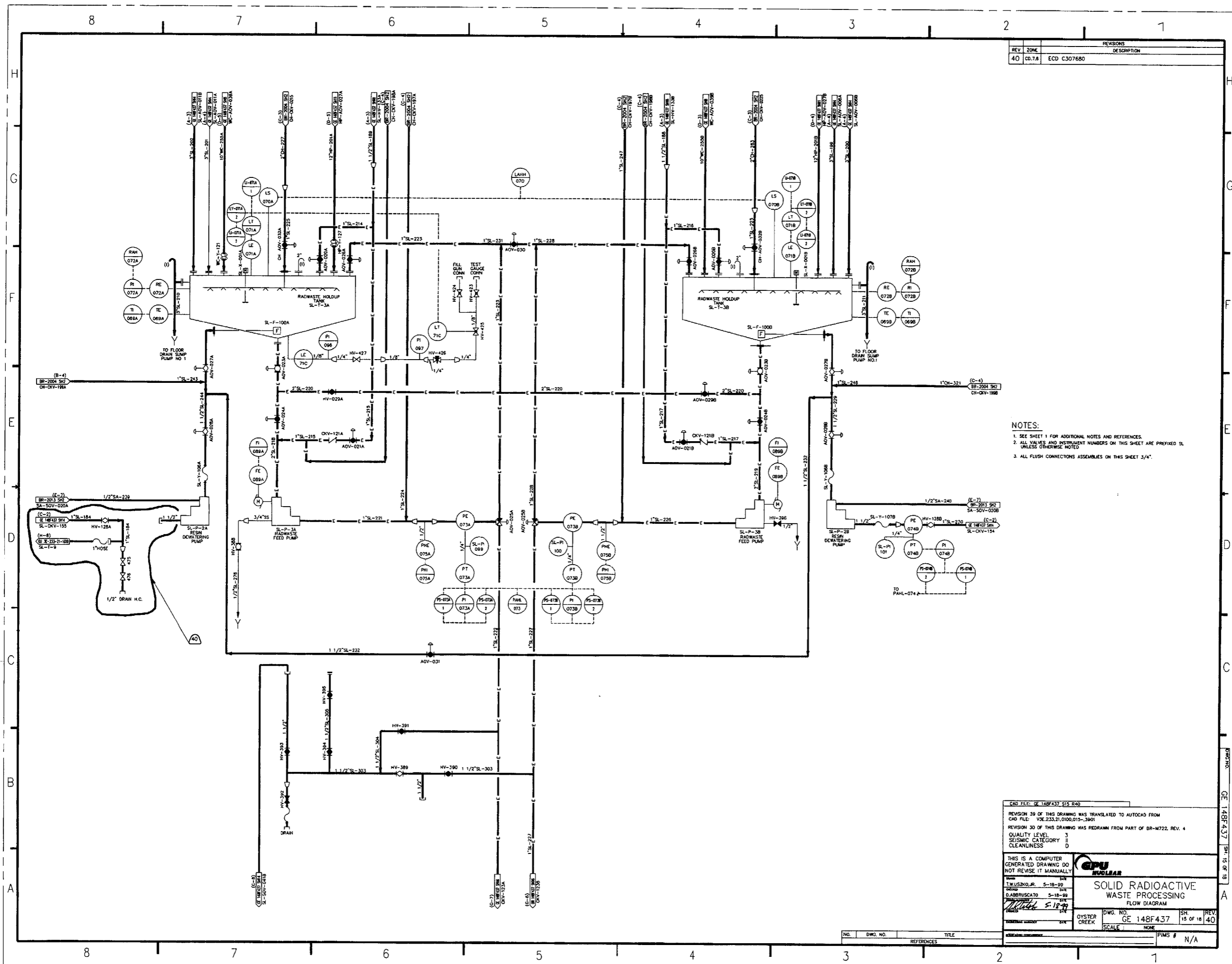
THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

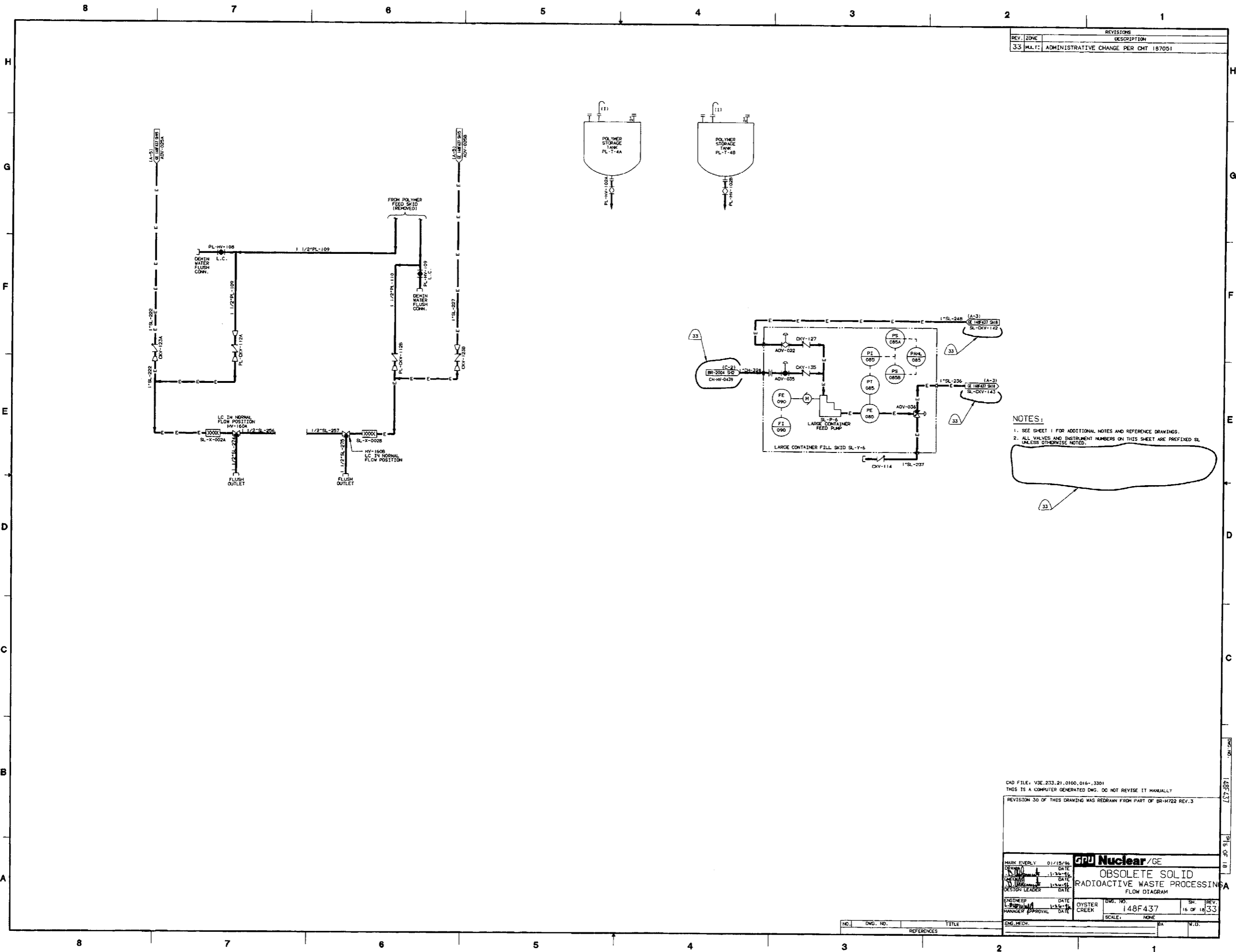
NAME	DATE
ANNE A. CARLSON	1-28-00
DESIGNED	
BY	1-28-00
DATE	
1-28-00	

GE 148F437 S14 R50

PROJECT	DWG. NO.	REV.
GE 148F437	14 OF 18	50

SCALE	NAME	FWMS #





REVISIONS	
REV.	DESCRIPTION
33	ADMINISTRATIVE CHANGE PER CMT 187051

NOTES:

- SEE SHEET 1 FOR ADDITIONAL NOTES AND REFERENCE DRAWINGS.
- ALL VALVES AND INSTRUMENT NUMBERS ON THIS SHEET ARE PREFIXED SL UNLESS OTHERWISE NOTED.

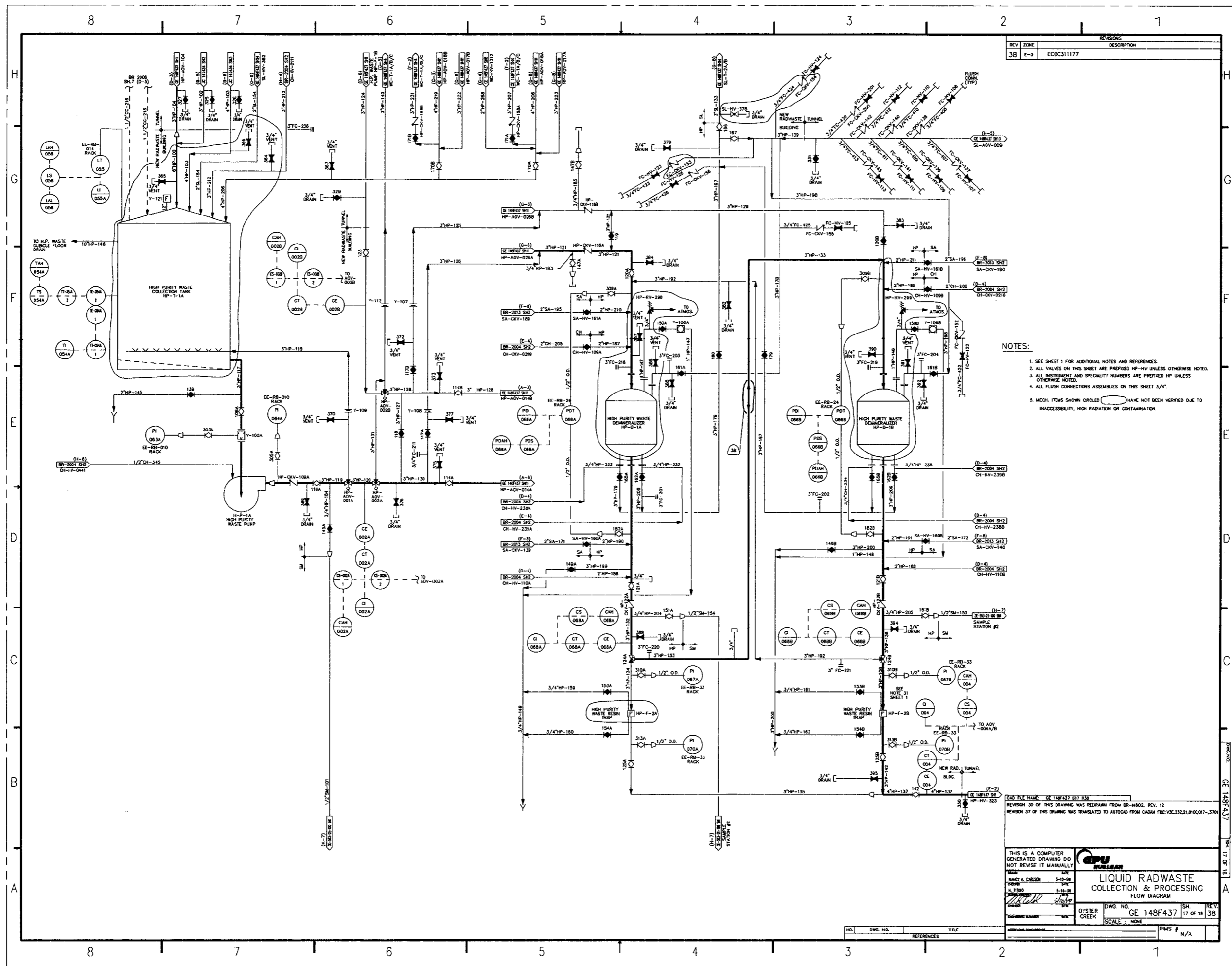
CAD FILE: V3E.233.21.0100.016-.3301
THIS IS A COMPUTER GENERATED DWG. DO NOT REVISE IT MANUALLY

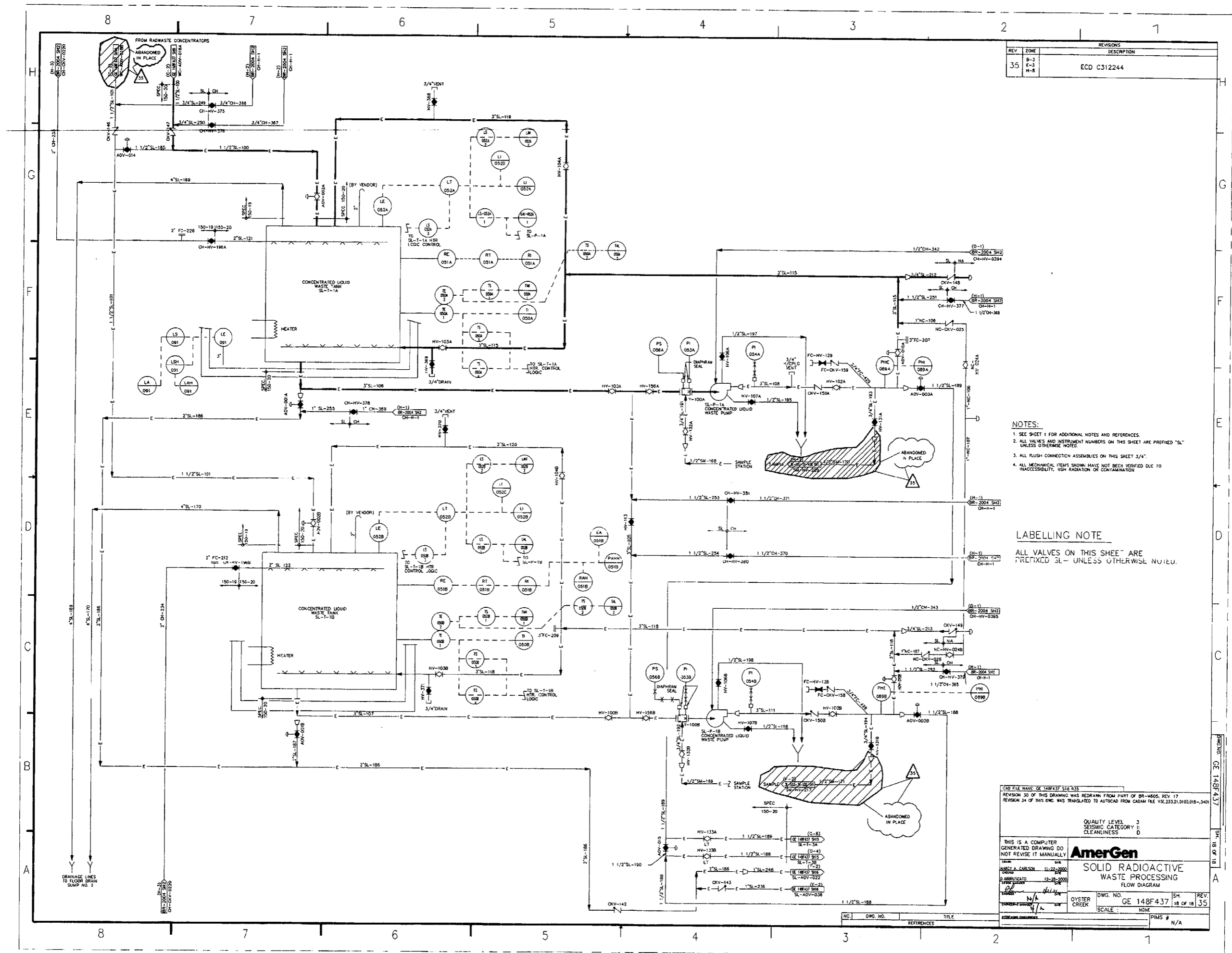
REVISION 30 OF THIS DRAWING WAS REDRAWN FROM PART OF BR-H722 REV. 3

MARK EVERLY	01/15/96	DATE
DESIGNED	1-13-96	DATE
CHECKED	1-13-96	DATE
DESIGN LEADER	1-13-96	DATE
ENGINEER	1-13-96	DATE
MANAGER APPROVAL	1-13-96	DATE

GPU Nuclear/GE	OBsolete SOLID RADIOACTIVE WASTE PROCESSING	FLOW DIAGRAM
ENGINEER	DATE	SH. REV.
1-9-96	1-13-96	16 OF 16
MANAGER	1-13-96	33
SCALE	NONE	
ENG. MECH.		

NO.	DWG. NO.	TITLE
		REFERENCES





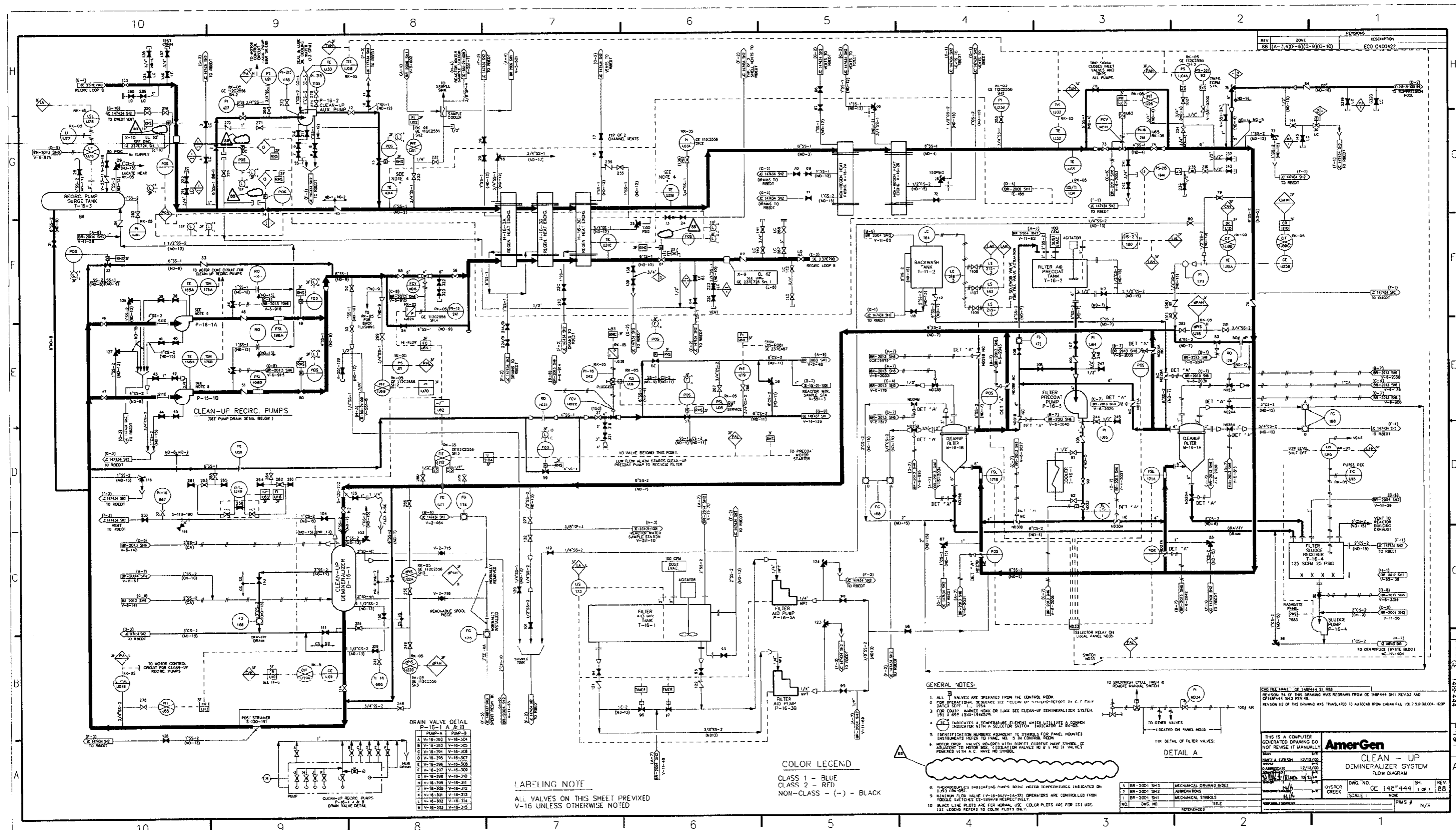
REVISIONS		DESCRIPTION
REV	ZONE	
35	B-3 E-3 H-8	ECD C312244

- NOTES:
- SEE SHEET 1 FOR ADDITIONAL NOTES AND REFERENCES.
 - ALL VALVES AND INSTRUMENT NUMBERS ON THIS SHEET ARE PREFIXED "SL" UNLESS OTHERWISE NOTED.
 - ALL FLUSH CONNECTION ASSEMBLIES ON THIS SHEET 3/4".
 - ALL MECHANICAL ITEMS SHOWN HAVE NOT BEEN VERIFIED DUE TO INACCESSIBILITY, HIGH RADIATION OR CONTAMINATION.

LABELLING NOTE

ALL VALVES ON THIS SHEET ARE PREFIXED SL- UNLESS OTHERWISE NOTED.

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY		QUALITY LEVEL 3 SEISMIC CATEGORY II CLEANLINESS D
AmerGen		
SOLID RADIOACTIVE WASTE PROCESSING FLOW DIAGRAM		
DATE 11-22-2000	DWG. NO. GE 148F437	REV. 35
BY J. A. CARSON	SCALE NONE	PIMS # N/A
CHECKED BY J. A. CARSON	DATE 12-18-2000	
OYSTER CREEK		



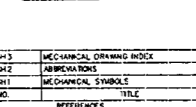
LABELING NOTE
ALL VALVES ON THIS SHEET PREVIEWED V-16 UNLESS OTHERWISE NOTED

COLOR LEGEND
CLASS 1 - BLUE
CLASS 2 - RED
NON-CLASS - (-) - BLACK

GENERAL NOTES:

1. ALL VALVES ARE OPERATED FROM THE CONTROL ROOM.
2. FOR OPERATIONAL SEQUENCE SEE "CLEAN-UP SYSTEMS" REPORT BY C. F. FALY DATED SEP. 1974.
3. FOR COUPLER MARKED INDEX OR LOCK SEE CLEAN-UP DEMINERALIZER SYSTEM P-15-2 2-2-2 1974-1975.
4. INDICATOR WITH A SELECTOR SWITCH INDICATOR AT R-6-05.
5. IDENTIFICATION NUMBERS ADJACENT TO SYMBOLS FOR PANEL MOUNTED INSTRUMENTS REFER TO PANEL NO. 3 IN CONTROL ROOM.
6. MOTOR OPER. VALVES POWERED WITH DIRECT CURRENT HAVE SYMBOL DC ADJACENT TO MOTOR BOX. INDICATION VALVES NO. 2 & 10 (3) VALVES POWERED WITH A.C. HAVE NO SYMBOL.
7. THERMOCOUPLES INDICATING PUMP DRIVE MOTOR TEMPERATURES INDICATED ON 1-153 (R-6-05).
8. MINIMUM FLOW VALVE (V-15-302) (V-15-303) OPERATORS ARE CONTROLLED FROM TOGGLE SWITCHES 12-1204/8 RESPECTIVELY.
9. BLACK LINE PLOTS ARE FOR NORMAL USE. COLOR PLOTS ARE FOR 151 USE.
10. 151 LOGGING REFERS TO CS-30 PLOTS ONLY.

DETAIL A



FILE NAME: 148544.DWG
REVISION 24 OF THIS DRAWING WAS REDRAWN FROM 148544.SHT REV.23 AND 148544.SHT REV.22.
REVISION 02 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADIAN FILE 12-2150-00-001-102P

THIS IS A COMPUTER GENERATED DRAWING. DO NOT REUSE IT MANUALLY.

AmerGen

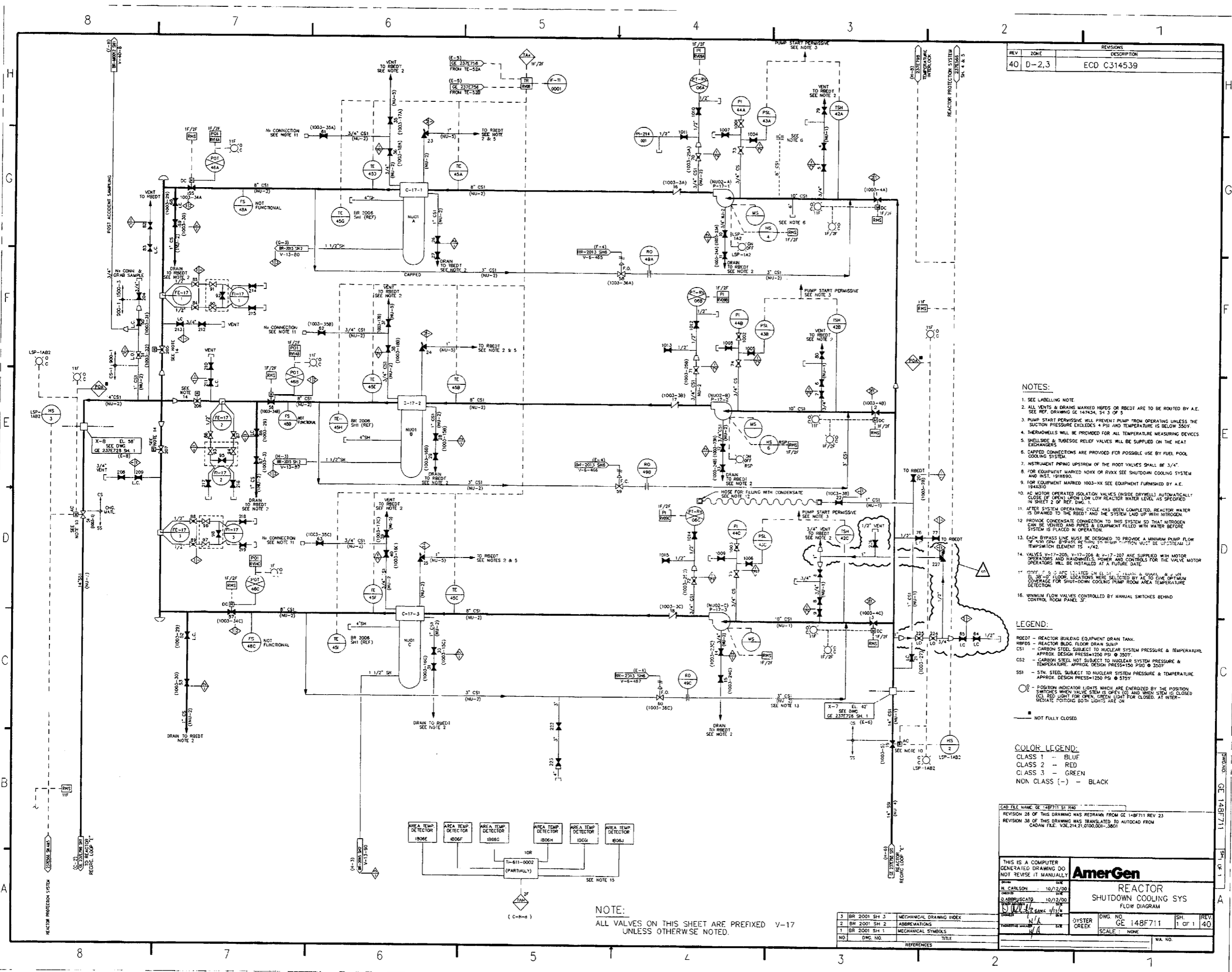
**CLEAN - UP
DEMINERALIZER SYSTEM
FLOW DIAGRAM**

DATE: 12/18/2000
DRAWN BY: J. L. LARSON
CHECKED BY: J. L. LARSON
APPROVED BY: J. L. LARSON

SYMBOL NO. 148544
SCALE: 1" = 10'-0"

PROJECT: OYSTER CREEK
SHEET: 1 OF 1
REV. 88

REFERENCES: 1. BR-2001-SHT3 MECHANICAL DRAWING INDEX
2. BR-2001-SHT2 ABBREVIATIONS
3. BR-2001-SHT1 MECHANICAL SYMBOLS



REV		ZONE		DESCRIPTION	
40	D-2,3			ECD	C314539

- NOTES:**
- SEE LABELLING NOTE.
 - ALL VENTS & DRAINS MARKED HRFDS OR RBDT ARE TO BE ROUTED BY A.E. SEE REF. DRAWING GE 147434, 51 3 OF 5.
 - PUMP START PERMISSIVE WILL PREVENT PUMP FROM OPERATING UNLESS THE SUCTION PRESSURE EXCEEDS 4 PSI AND TEMPERATURE IS BELOW 350°F.
 - THERMOWELLS WILL BE PROVIDED FOR ALL TEMPERATURE MEASURING DEVICES.
 - SHELLSIDE & TUBESIDE RELIEF VALVES WILL BE SUPPLIED ON THE HEAT EXCHANGERS.
 - CAPPED CONNECTIONS ARE PROVIDED FOR POSSIBLE USE BY FUEL POOL COOLING SYSTEM.
 - INSTRUMENT PIPING UPSTREAM OF THE ROOT VALVES SHALL BE 3/4".
 - FOR EQUIPMENT MARKED NOXX OR RVXX SEE SHUTDOWN COOLING SYSTEM AND INST. 19X690.
 - FOR EQUIPMENT MARKED 1003-KX SEE EQUIPMENT FURNISHED BY A.E. 194X310.
 - AS MOTOR OPERATED ISOLATION VALVES (INSIDE DRYWELL) AUTOMATICALLY CLOSE IF OPEN, LOW REACTOR WATER LEVEL AS SPECIFIED IN SHEET 2 OF REF. DWG. 1.
 - AFTER SYSTEM OPERATING CYCLE HAS BEEN COMPLETED, REACTOR WATER IS DRAINED TO THE RBDT AND THE SYSTEM LAMP UP WITH NITROGEN.
 - PROVIDE CONDENSATE CONNECTION TO THIS SYSTEM SO THAT NITROGEN CAN BE VENTED AND PIPES & EQUIPMENT FILLED WITH WATER BEFORE SYSTEM IS PLACED IN OPERATION.
 - EACH BYPASS LINE MUST BE DESIGNED TO PROVIDE A MINIMUM PUMP FLOW OF 10 GPM. BYPASS BEHIND THE PUMP SUCTION MUST BE UPSTREAM OF THE TEMPERATURE ELEMENT TS 1/42.
 - VALVES V-17-205, V-17-206 & V-17-207 ARE SUPPLIED WITH MOTOR OPERATORS AND HANDWHEELS. POWER AND CONTROLS FOR THE VALVE MOTOR OPERATORS WILL BE INSTALLED AT A FUTURE DATE.
 - DOOR 1 & 2 ARE LOCATED SH EL 51' - 7' ABOVE & ROOM 1 & 2 ON EL 38'-0" FLOOR. LOCATIONS WERE SELECTED BY AE TO GIVE OPTIMUM COVERAGE FOR SHUT-DOWN COOLING PUMP ROOM AREA TEMPERATURE DETECTION.
 - MINIMUM FLOW VALVES CONTROLLED BY MANUAL SWITCHES BEHIND CONTROL ROOM PANEL 37.

- LEGEND:**
- RBDT - REACTOR BUILDING EQUIPMENT DRAIN TANK.
HRFDS - REACTOR BLDG. FLOOR DRAIN SUMP.
CS1 - CARBON STEEL SUBJECT TO NUCLEAR SYSTEM PRESSURE & TEMPERATURE. APPROX. DESIGN PRESS=1250 PSI @ 350°F.
CS2 - CARBON STEEL NOT SUBJECT TO NUCLEAR SYSTEM PRESSURE & TEMPERATURE. APPROX. DESIGN PRESS=150 PSI @ 350°F.
SS1 - STN. STEEL SUBJECT TO NUCLEAR SYSTEM PRESSURE & TEMPERATURE. APPROX. DESIGN PRESS=1250 PSI @ 350°F.
- - POSITION INDICATOR LIGHTS WHICH ARE ENERGIZED BY THE POSITION SWITCHES WHEN VALVE STEM IS OPEN (○) AND WHEN STEM IS CLOSED (●). RED LIGHT FOR OPEN, GREEN LIGHT FOR CLOSED. AT INTER-MEDIATE POSITIONS BOTH LIGHTS ARE ON.
- NOT FULLY CLOSED

- COLOR LEGEND:**
- CLASS 1 - BLUF
CLASS 2 - RED
CLASS 3 - GREEN
NON CLASS (-) - BLACK

NOTE:
ALL VALVES ON THIS SHEET ARE PREFIXED V-17
UNLESS OTHERWISE NOTED.

CAD FILE NAME: GE 148F711 S1 1840

REVISION 28 OF THIS DRAWING WAS REDRAWN FROM GE 148F711 REV 23

REVISION 38 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADMAN FILE: V3E,214,21,010,001-3801

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AmerGen

REACTOR SHUTDOWN FLOW COOLING SYS

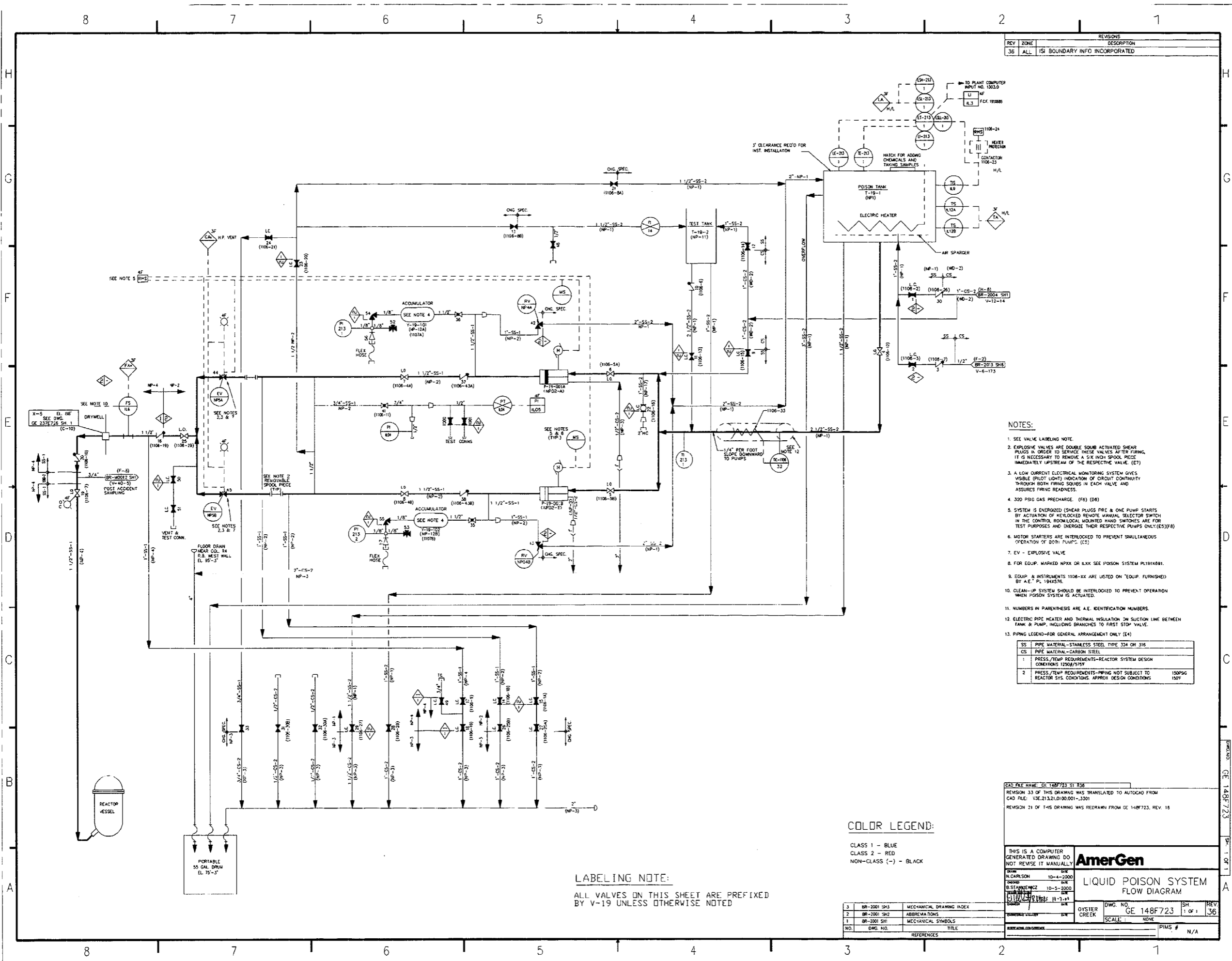
FLOW DIAGRAM

SYSTEM	DWG. NO.	SH.	REV.
CREEK	GE 148F711	1 OF 1	40

SCALE: NONE

WA. NO.

3	BR 2001 SH 3	MECHANICAL DRAWING INDEX
2	BR 2001 SH 2	ABBREVIATIONS
1	BR 2001 SH 1	MECHANICAL SYMBOLS
NO	DWG. NO.	REFERENCES
		TITLE



REVISIONS	
REV	DESCRIPTION
36	ALL ISI BOUNDARY INFO INCORPORATED

- NOTES:
- SEE VALVE LABELING NOTE.
 - EXPLOSIVE VALVES ARE DOUBLE SOURCE ACTIVATED SHEAR PLUGS IN ORDER TO SERVICE THESE VALVES AFTER FIRING, IT IS NECESSARY TO REMOVE A SIX INCH SPOOL PIECE IMMEDIATELY UPSTREAM OF THE RESPECTIVE VALVE (E7).
 - A LOW CURRENT ELECTRICAL MONITORING SYSTEM GIVES VISIBLE (PILOT LIGHT) INDICATION OF CIRCUIT CONTINUITY THROUGH BOTH FIRING SQUIDS IN EACH VALVE AND ASSURES FIRING READINESS.
 - 320 PSIG GAS PRECHARGE. (F6) (D8)
 - SYSTEM IS ENERGIZED (SHEAR PLUGS FIRE & ONE PUMP STARTS) BY ACTUATION OF REMOTE MANUAL SELECTOR SWITCH IN THE CONTROL ROOM/LOCAL MOUNTED HAND SWITCHES ARE FOR TEST PURPOSES AND ENERGIZE THEIR RESPECTIVE PUMPS ONLY (E5)(F8)
 - MOTOR STARTERS ARE INTERLOCKED TO PREVENT SIMULTANEOUS OPERATION OF BOTH PUMPS (E5)
 - EV - EXPLOSIVE VALVE
 - FOR EQUIP. MARKED NPXX OR ILXX SEE POISON SYSTEM PL181X091.
 - EQUIP. & INSTRUMENTS 1106-XX ARE LISTED ON "EQUIP. FURNISHED BY A.E." PL 194X376.
 - CLEAN-UP SYSTEM SHOULD BE INTERLOCKED TO PREVENT OPERATION WHEN POISON SYSTEM IS ACTIVATED.
 - NUMBERS IN PARENTHESIS ARE A.E. IDENTIFICATION NUMBERS.
 - ELECTRIC PIPE HEATER AND THERMAL INSULATION ON SUCTON LINE BETWEEN TANK & PUMP, INCLUDING BRANCHES TO FIRST STOP VALVE.
 - PIPING LEGEND-FOR GENERAL ARRANGEMENT ONLY (E4)

SS	PIPE MATERIAL-STAINLESS STEEL TYPE 304 OR 316
CS	PIPE MATERIAL-CARBON STEEL
1	PRESS./TEMP. REQUIREMENTS-REACTOR SYSTEM DESIGN CONDITIONS 1250/575F
2	PRESS./TEMP. REQUIREMENTS-PIPING NOT SUBJECT TO REACTOR SYS. CONDITIONS. APPROX. DESIGN CONDITIONS 150PSIG 150F

COLOR LEGEND:

- CLASS 1 - BLUE
CLASS 2 - RED
NON-CLASS (-) - BLACK

LABELING NOTE:
ALL VALVES ON THIS SHEET ARE PREFIXED BY V-19 UNLESS OTHERWISE NOTED

NO.	QWG. NO.	REFERENCES	TITLE
3	BR-2001 (SH)	MECHANICAL DRAWING INDEX	
2	BR-2001 (SH)	ABBREVIATIONS	
1	BR-2001 (SH)	MECHANICAL SYMBOLS	

CAD FILE NAME: 148F723.DWG
REVISION 33 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CAD FILE: V3E.213.21.01.00.001-3301
REVISION 21 OF THIS DRAWING WAS REDRAWN FROM DE 148F723, REV. 18

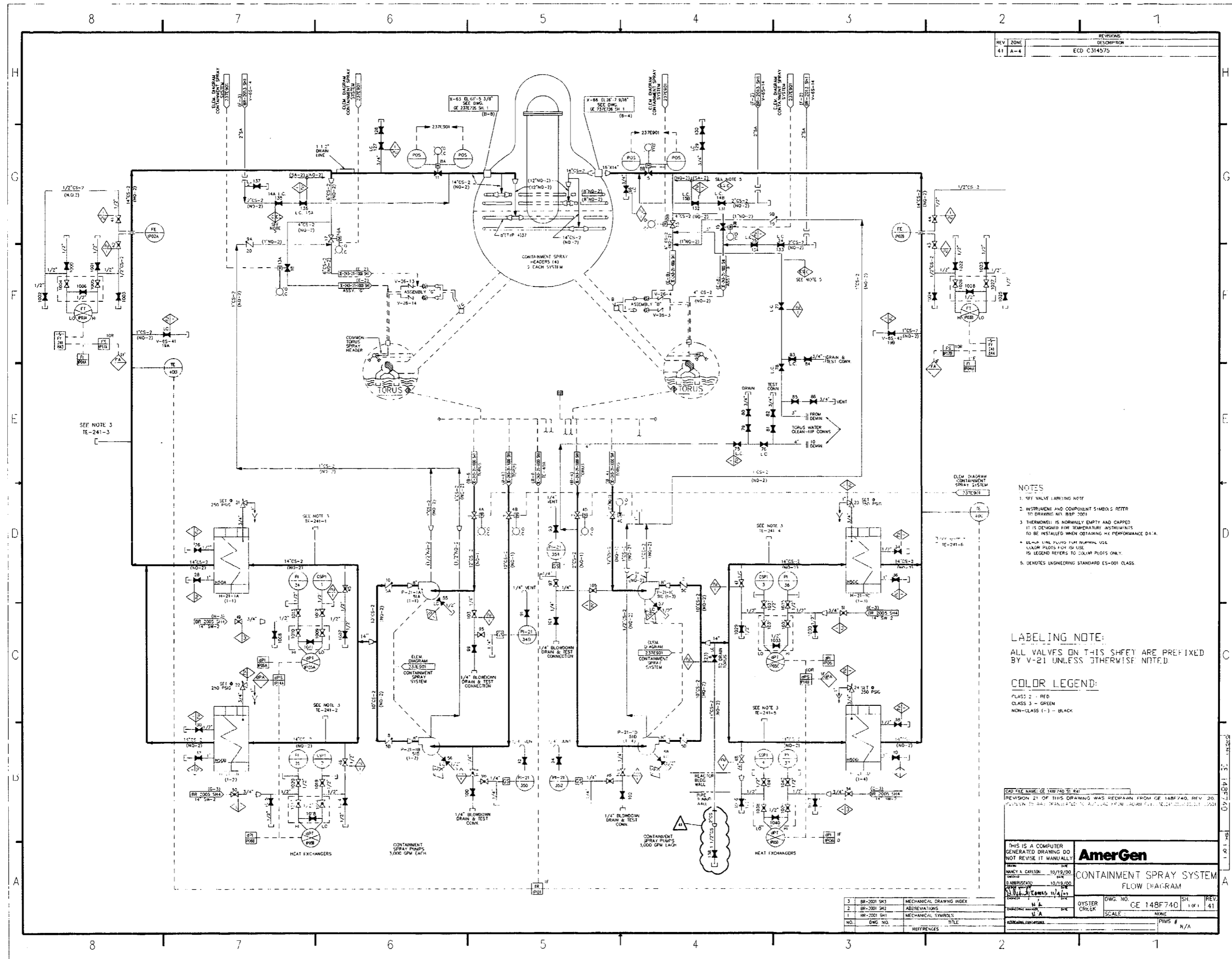
THIS IS A COMPUTER GENERATED DRAWING DO NOT REWIRE IT MANUALLY

AmerGen

LIQUID POISON SYSTEM FLOW DIAGRAM

OWEN N. CARLSON 10-4-2000
DESIGNED BY 10-5-2000
DRAWN BY 11-7-01
CHECKED BY
DATE

OWYSTER CREEK DWG. NO. 148F723 SH 1 OF 1
SCALE: NONE
PIMS # N/A



REV		ZONE		REVISIONS	
41	A-4			DESCRIPTION	
				ECD C314575	

- NOTES
- SEE VALVE LABELING NOTE
 - INSTRUMENT AND COMPONENT SYMBOLS REFER TO DRAWING NO. BAP 2001
 - THERMOWELL IS NORMALLY EMPTY AND CAPPED. IT IS DESIGNED FOR TEMPERATURE INSTRUMENTS TO BE INSTALLED WHEN OBTAINING MAXIMUM PERFORMANCE DATA.
 - BLANK LINE FLUID FLOW NORMAL USE. COLOR PLOTS FOR USE. IS LEGEND REFERS TO COLOR PLOTS ONLY.
 - DENOTES ENGINEERING STANDARD ES-001 CLASS

LABELING NOTE:
ALL VALVES ON THIS SHEET ARE PREFIXED BY V-21 UNLESS OTHERWISE NOTED.

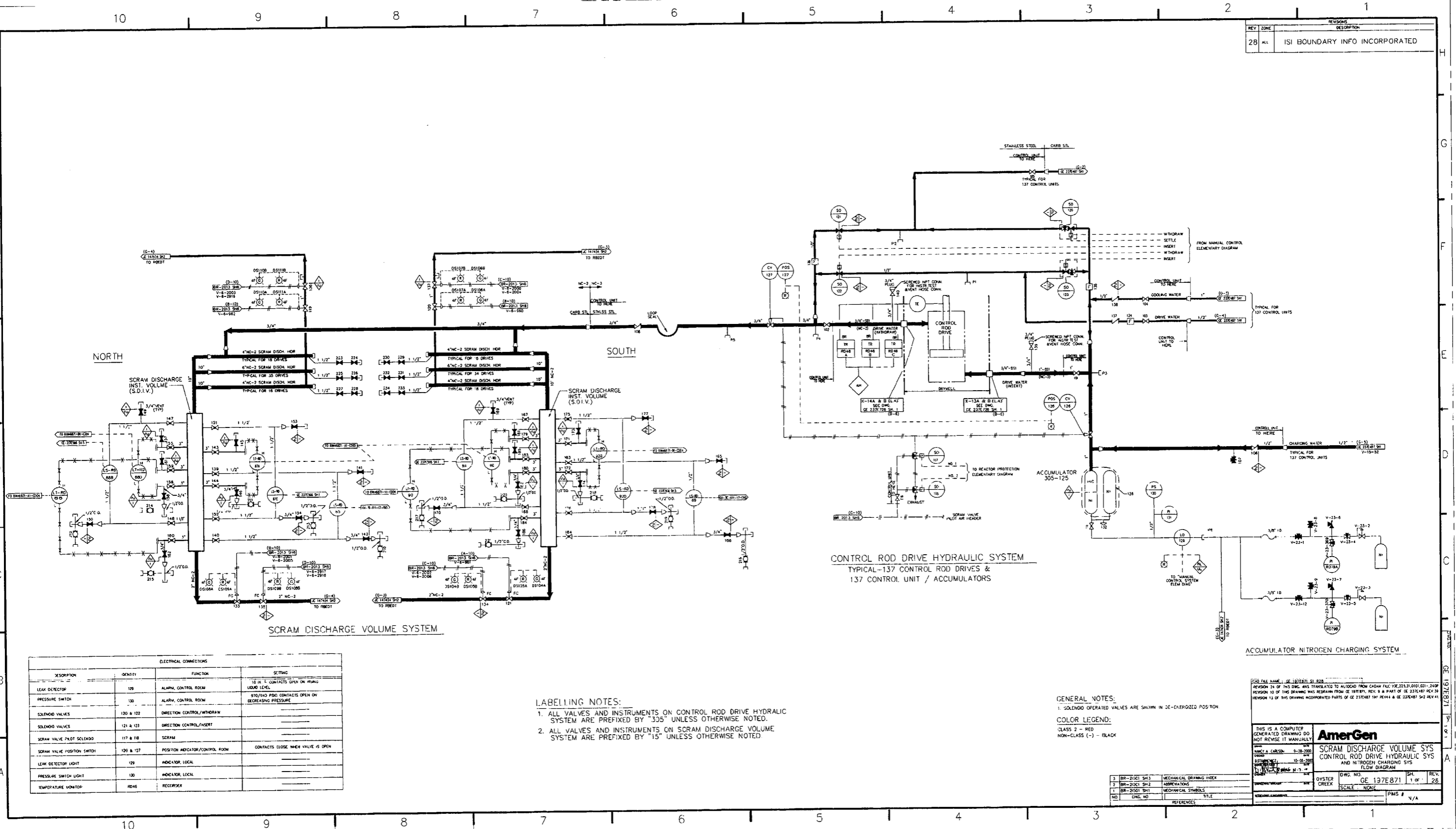
COLOR LEGEND:
CLASS 2 - RED
CLASS 3 - GREEN
NON-CLASS (-) - BLACK

CAD FILE NAME: CE 148F740 SH 41
REVISION 21 OF THIS DRAWING WAS REDRAWN FROM CE 148F740, REV. 20, WHICH WAS TRANSFERRED TO AUTOCAD FROM DIALAB FILE: 148F740.DWG

THIS IS A COMPUTER GENERATED DRAWING. DO NOT REVISE IT MANUALLY.		AmerGen	
NAME	DATE	CONTAINMENT SPRAY SYSTEM FLOW DIAGRAM	
MARY A. CARLSON	10/19/00		
DESIGNED BY	DATE	DWG. NO. CE 148F740 SH 41	
D. BRUSCAIO	10/19/00	SCALE	
DR. J. A. TOWNS	10/19/00	REV. 41	
PROJECT NO.	DATE	OYSTER CRACK	
148F740	10/19/00	PIMS # N/A	
TITLE		REFERENCES	
CONTAINMENT SPRAY SYSTEM			

3	BR-2001 SH1	MECHANICAL DRAWING INDEX
2	BR-2001 SH2	ABBREVIATIONS
1	BR-2001 SH1	MECHANICAL SYMBOLS
NO.	DWG. NO.	TITLE
		REFERENCES

REV	ZONE	DESCRIPTION
28	ALL	ISI BOUNDARY INFO INCORPORATED



DESCRIPTION	IDENTITY	FUNCTION	SETTING
LEAK DETECTOR	129	ALARM, CONTROL ROOM	10 IN 1 CONTACTS OPEN ON RISING LIQUID LEVEL
PRESSURE SWITCH	130	ALARM, CONTROL ROOM	870/140 PSIG CONTACTS OPEN ON DECREASING PRESSURE
SOLENOID VALVES	120 & 122	DIRECTION CONTROL/WITHDRAW	
SOLENOID VALVES	121 & 123	DIRECTION CONTROL/INSERT	
SCRAM VALVE PILOT SOLENOID	117 & 118	SCRAM	
SCRAM VALVE POSITION SWITCH	126 & 127	POSITION INDICATOR/CONTROL ROOM	CONTACTS CLOSE WHEN VALVE IS OPEN
LEAK DETECTOR LIGHT	129	INDICATOR, LOCAL	
PRESSURE SWITCH LIGHT	130	INDICATOR, LOCAL	
TEMPERATURE MONITOR	RD-46	RECORDER	

LABELLING NOTES:

1. ALL VALVES AND INSTRUMENTS ON CONTROL ROD DRIVE HYDRAULIC SYSTEM ARE PREFIXED BY "335" UNLESS OTHERWISE NOTED.
2. ALL VALVES AND INSTRUMENTS ON SCRAM DISCHARGE VOLUME SYSTEM ARE PREFIXED BY "15" UNLESS OTHERWISE NOTED.

GENERAL NOTES:

1. SOLENOID OPERATED VALVES ARE SHOWN IN DE-ENERGIZED POSITION.

COLOR LEGEND:

CLASS 2 - RED
NON-CLASS (-) - BLACK

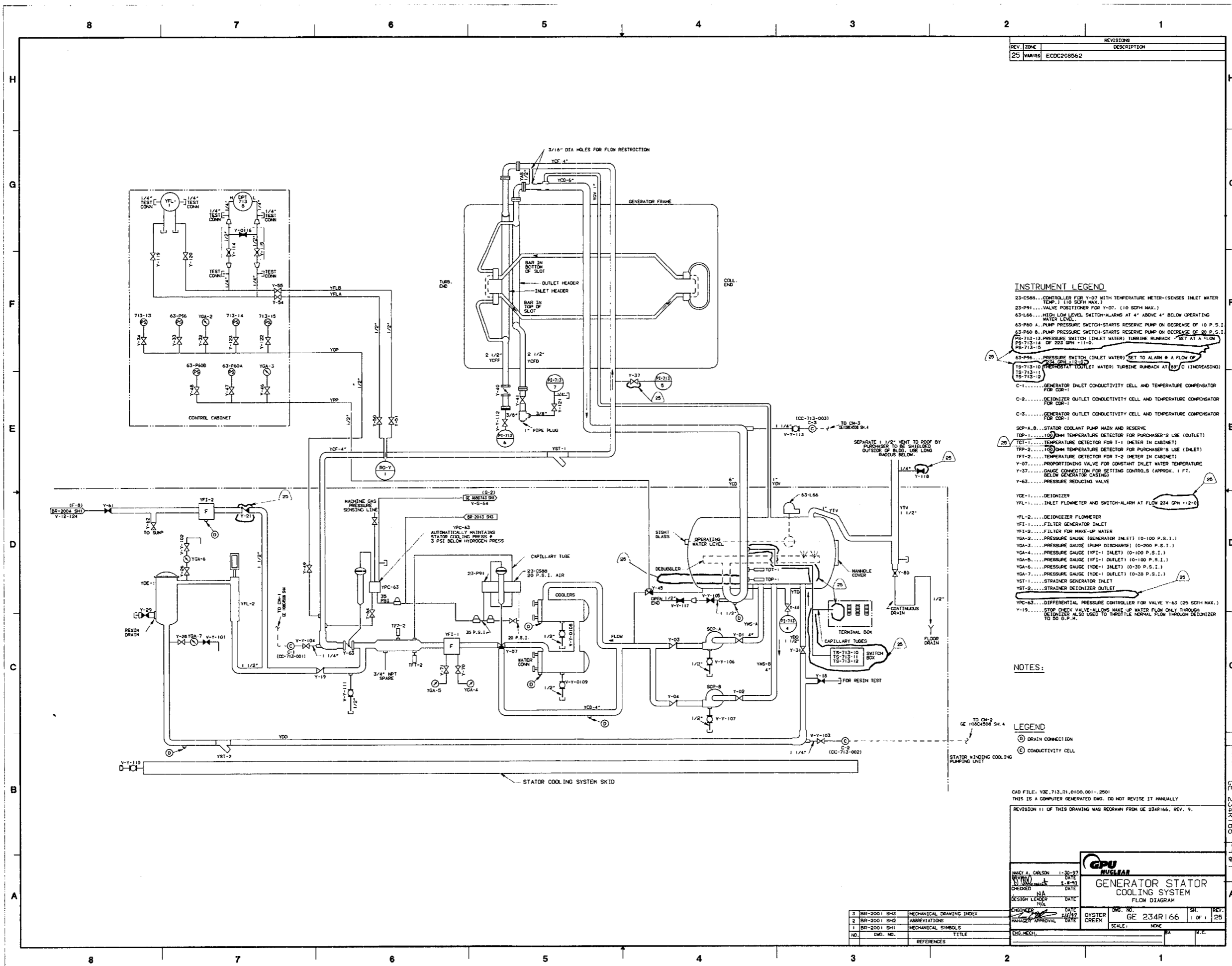
3	BR-2101 SH3	MECHANICAL DRAWING INDEX
7	BR-2101 SH3	MECHANICAL DRAWING INDEX
1	BR-2101 SH1	MECHANICAL SYMBOLS
NO	UNC NO	REFERENCES

THIS IS A COMPUTER GENERATED DRAWING. DO NOT REVISE IT MANUALLY.

AmerGen

SCRAM DISCHARGE VOLUME SYS
CONTROL ROD DRIVE HYDRAULIC SYS
AND NITROGEN CHARGING SYS
FLOW DIAGRAM

DWG. NO. **GE 137E871** 1 of 28
SCALE: NONE
PMS: N/A



REVISIONS	
REV. NO.	DESCRIPTION
25	VARIES EDC208562

- INSTRUMENT LEGEND**
- 23-PS88...CONTROLLER FOR Y-07 WITH TEMPERATURE METER (SENSES INLET WATER TEMP. 7.110 SOFH MAX.)
 - 23-P91...VALVE POSITIONER FOR Y-07. (10 SOFH MAX.)
 - 63-L66...HIGH LOW LEVEL SWITCH-ALARMS AT 4" ABOVE 4" BELOW OPERATING WATER LEVEL
 - 63-PAD A...PUMP PRESSURE SWITCH-STARTS RESERVE PUMP ON DECREASE OF 10 P.S.I.
 - 63-PAD B...PUMP PRESSURE SWITCH-STARTS RESERVE PUMP ON DECREASE OF 20 P.S.I.
 - PS-713-13...PRESSURE SWITCH (INLET WATER) TURBINE RUNBACK AT 11.0
 - PS-713-14...PRESSURE SWITCH (OUTLET WATER) TURBINE RUNBACK AT 11.0
 - PS-713-15...PRESSURE SWITCH (INLET WATER) SET TO ALARM AT A FLOW OF 234 GPM
 - PS-713-16...PRESSURE SWITCH (OUTLET WATER) TURBINE RUNBACK AT 11.0 (INCREASING)
 - C-1...GENERATOR INLET CONDUCTIVITY CELL AND TEMPERATURE COMPENSATOR FOR COR-1
 - C-2...DEIONIZER OUTLET CONDUCTIVITY CELL AND TEMPERATURE COMPENSATOR FOR COR-1
 - C-3...GENERATOR OUTLET CONDUCTIVITY CELL AND TEMPERATURE COMPENSATOR FOR COR-1
 - SCP-A,B...STATOR COOLANT PUMP MAIN AND RESERVE
 - YDP-1...100% TEMPERATURE DETECTOR FOR PURCHASER'S USE (OUTLET)
 - YDT-1...TEMPERATURE DETECTOR FOR T-1 (METER IN CABINET)
 - YDT-2...100% TEMPERATURE DETECTOR FOR PURCHASER'S USE (INLET)
 - YFT-1...TEMPERATURE DETECTOR FOR T-2 (METER IN CABINET)
 - Y-07...PROPORTIONING VALVE FOR CONSTANT INLET WATER TEMPERATURE
 - Y-37...GAUGE CONNECTION FOR SETTING CONTROLS (APPROX. 1 FT. BELOW GENERATOR CASTING)
 - Y-63...PRESSURE REDUCING VALVE
 - YDE-1...DEIONIZER
 - YFL-1...INLET FLOWMETER AND SWITCH-ALARM AT FLOW 234 GPM (12-0)
 - YFL-2...DEIONIZER FLOWMETER
 - YFT-1...FILTER GENERATOR INLET
 - YFT-2...FILTER FOR MAKE-UP WATER
 - YGA-1...PRESSURE GAUGE (GENERATOR INLET) (0-100 P.S.I.)
 - YGA-2...PRESSURE GAUGE (PUMP DISCHARGE) (0-200 P.S.I.)
 - YGA-3...PRESSURE GAUGE (YFT-1 INLET) (0-100 P.S.I.)
 - YGA-4...PRESSURE GAUGE (YFT-2 INLET) (0-100 P.S.I.)
 - YGA-5...PRESSURE GAUGE (YDE-1 INLET) (0-30 P.S.I.)
 - YGA-6...PRESSURE GAUGE (YDE-1 OUTLET) (0-20 P.S.I.)
 - YGA-7...PRESSURE GAUGE (YDE-1 OUTLET) (0-20 P.S.I.)
 - YST-1...STRAINER GENERATOR INLET
 - YST-2...STRAINER DEIONIZER OUTLET
 - YPC-63...DIFFERENTIAL PRESSURE CONTROLLER FOR VALVE Y-63 (20 SOFH MAX.)
 - Y-19...STOP CHECK VALVE-ALLOWS MAKE-UP WATER FLOW ONLY THROUGH DEIONIZER ALSO USED TO THROTTLE NORMAL FLOW THROUGH DEIONIZER TO 50 G.P.M.

NOTES:

TO CH-2
GE 100C2008 SH.4

LEGEND

- DRAIN CONNECTION
- CONDUCTIVITY CELL

STATOR WINDING COOLING PUMPING UNIT

CAD FILE: VDE-713,21,0100,001-2501
THIS IS A COMPUTER GENERATED DWG. DO NOT REVISE IT MANUALLY
REVISION 11 OF THIS DRAWING WAS REGRAN FROM GE 234R166, REV. 9.

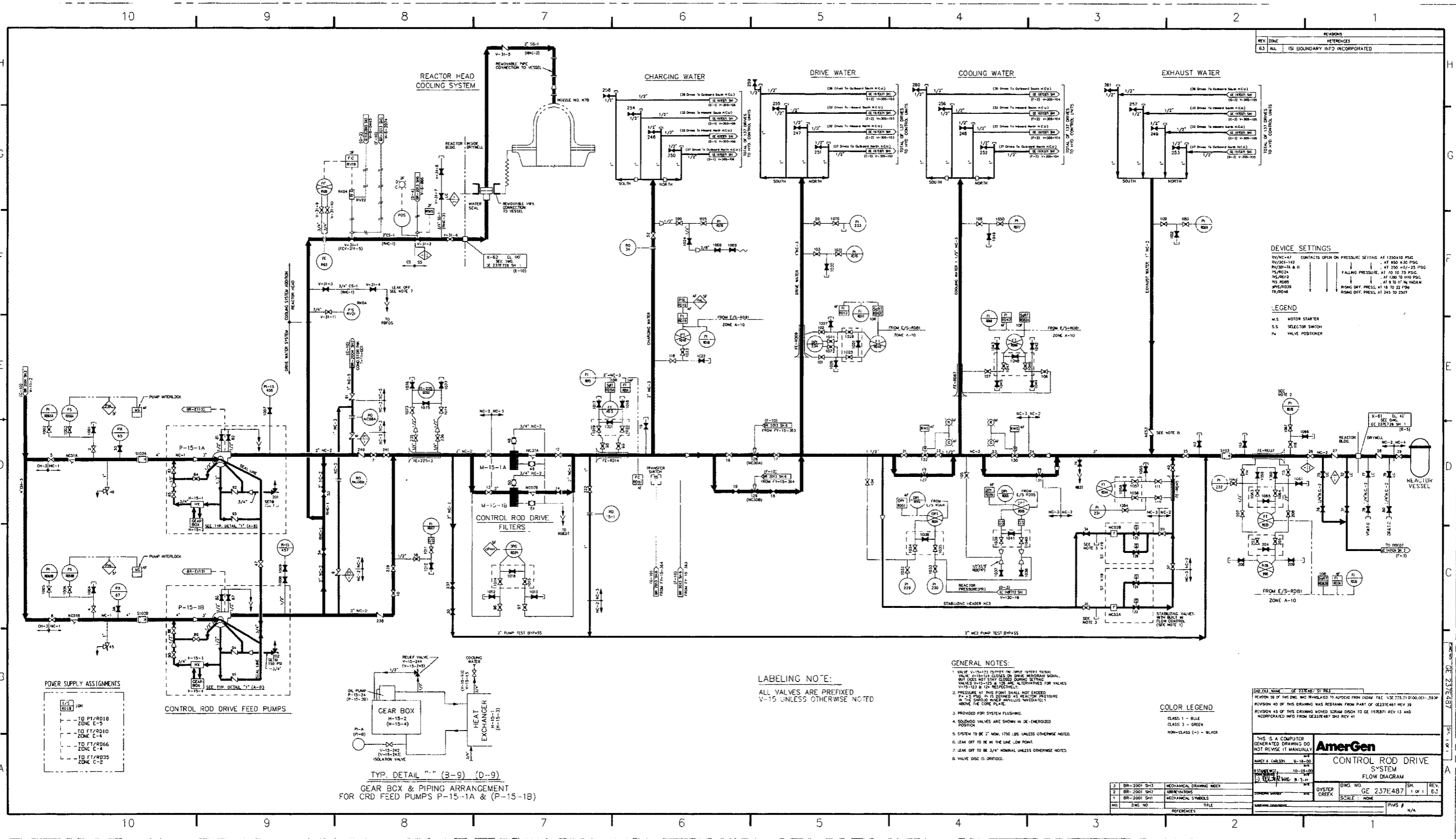
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CHECKED BY	DATE	1-30-97
DESIGN LEADER	DATE	1-30-97
MANAGER APPROVAL	DATE	1-30-97
ENG. MECH.	DATE	1-30-97

3	BR-2001 SH3	MECHANICAL DRAWING INDEX
2	BR-2001 SH2	ABBREVIATIONS
1	BR-2001 SH1	MECHANICAL SYMBOLS
NO.	DWG. NO.	REFERENCES

ENGINEER	DATE	1-30-97
CHECKED	DATE	1-30-97
DESIGN LEADER	DATE	1-30-97
MANAGER APPROVAL	DATE	1-30-97
ENG. MECH.	DATE	1-30-97

DWG. NO.	GE 234R166	REV. 9
SCALE	NONE	1 OF 1

GPU NUCLEAR
GENERATOR STATOR COOLING SYSTEM FLOW DIAGRAM



REVISIONS	
REV.	ZONE
63	ALL
IS BOUNDARY INFO INCORPORATED	

DEVICE SETTINGS	
VV/NC-47	CONTACTS OPEN ON PRESSURE SETTING AT 1200 PSI
VV/NC-142	AT 850 PSI
VV/NC-24 & B	AT 150 PSI
VV/NC-24	FALLING PRESSURE, AT 10 TO 15 PSI
VV/NC-14	AT 100 TO 110 PSI
VV/NC-14	AT 8 TO 10 PSI
VV/NC-14	AT 8 TO 10 PSI
VV/NC-14	AT 8 TO 10 PSI
VV/NC-14	AT 8 TO 10 PSI

LEGEND	
M.S.	MOTOR STARTER
S.S.	SELECTOR SWITCH
P.A.	VALVE POSITIONER

- GENERAL NOTES:
1. VALVE V-15-123 CLOSING ON DRIVE WATER SIGNAL, BUT DOES NOT STAY CLOSED DURING SETTING. VALVES V-15-123 & 124 ARE ALTERNATIVES FOR VALVES V-15-123 & 124 RESPECTIVELY.
 2. PRESSURE AT THIS POINT SHALL NOT EXCEED 150 PSI. IN THE EVENT OF A PRESSURE EXCEEDING 150 PSI, THE SYSTEM SHALL BE SHUT DOWN IMMEDIATELY.
 3. PROVIDED FOR SYSTEM FLUSHING.
 4. SOLID VALVES ARE SHOWN IN DE-ENERGIZED POSITION.
 5. SYSTEM TO BE 2" NOM. 1750 LBS. UNLESS OTHERWISE NOTED.
 6. LEAK OFF TO BE IN THE LOW POINT.
 7. LEAK OFF TO BE 3/4" NOM. UNLESS OTHERWISE NOTED.
 8. VALVE DISC IS DRIFTS.

COLOR LEGEND	
CLASS 1 - BLUE	
CLASS 2 - GREEN	
NON-CLASS - BLACK	

POWER SUPPLY ASSIGNMENTS	
TO P1/RD18	ZONE E-5
TO P1/RD10	ZONE E-4
TO P1/RD66	ZONE E-4
TO P1/RD35	ZONE E-2

TYP. DETAIL (3-9) (D-9)
GEAR BOX & PIPING ARRANGEMENT
FOR CRD FEED PUMPS P-15-1A & (P-15-1B)

GE 237E487

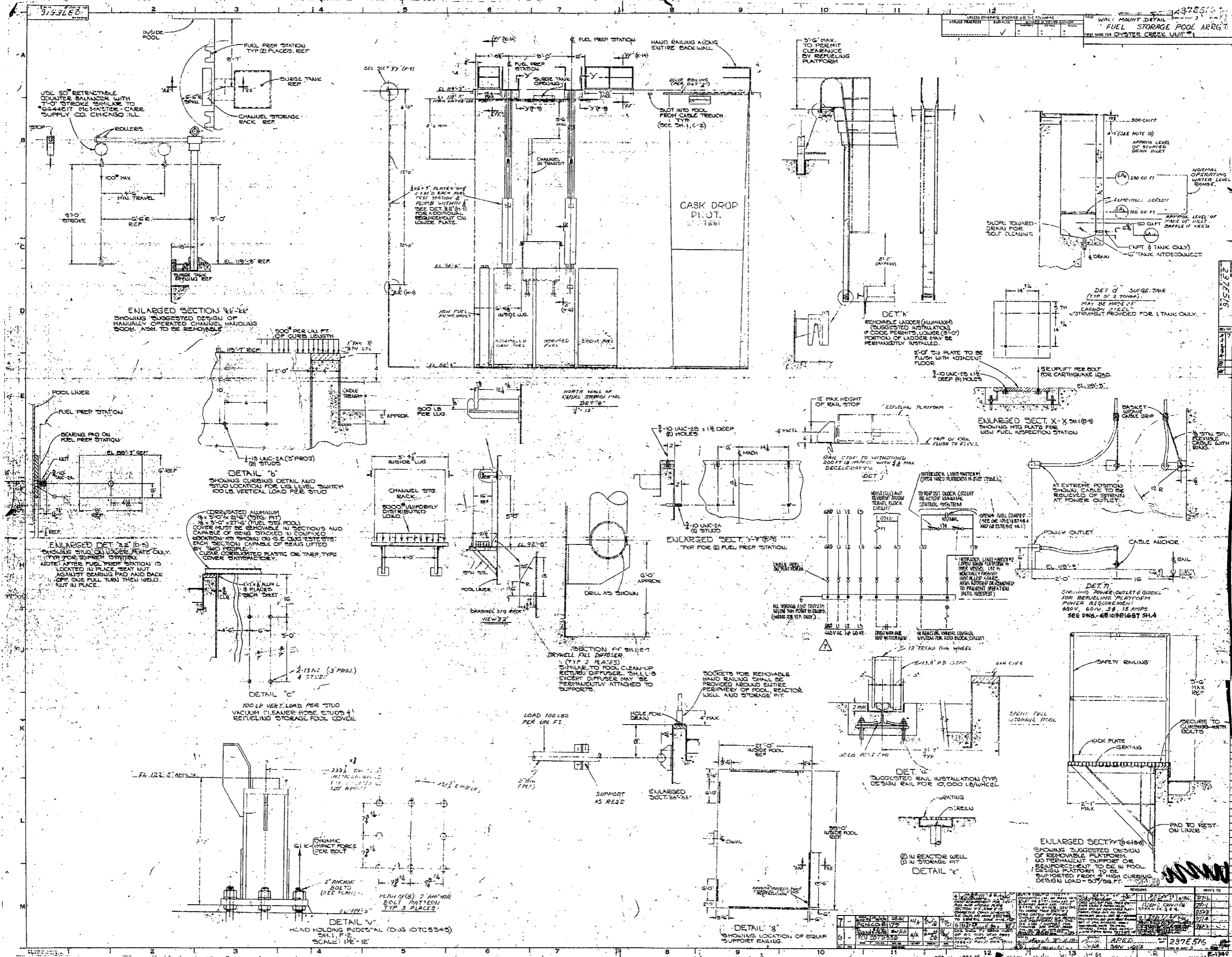
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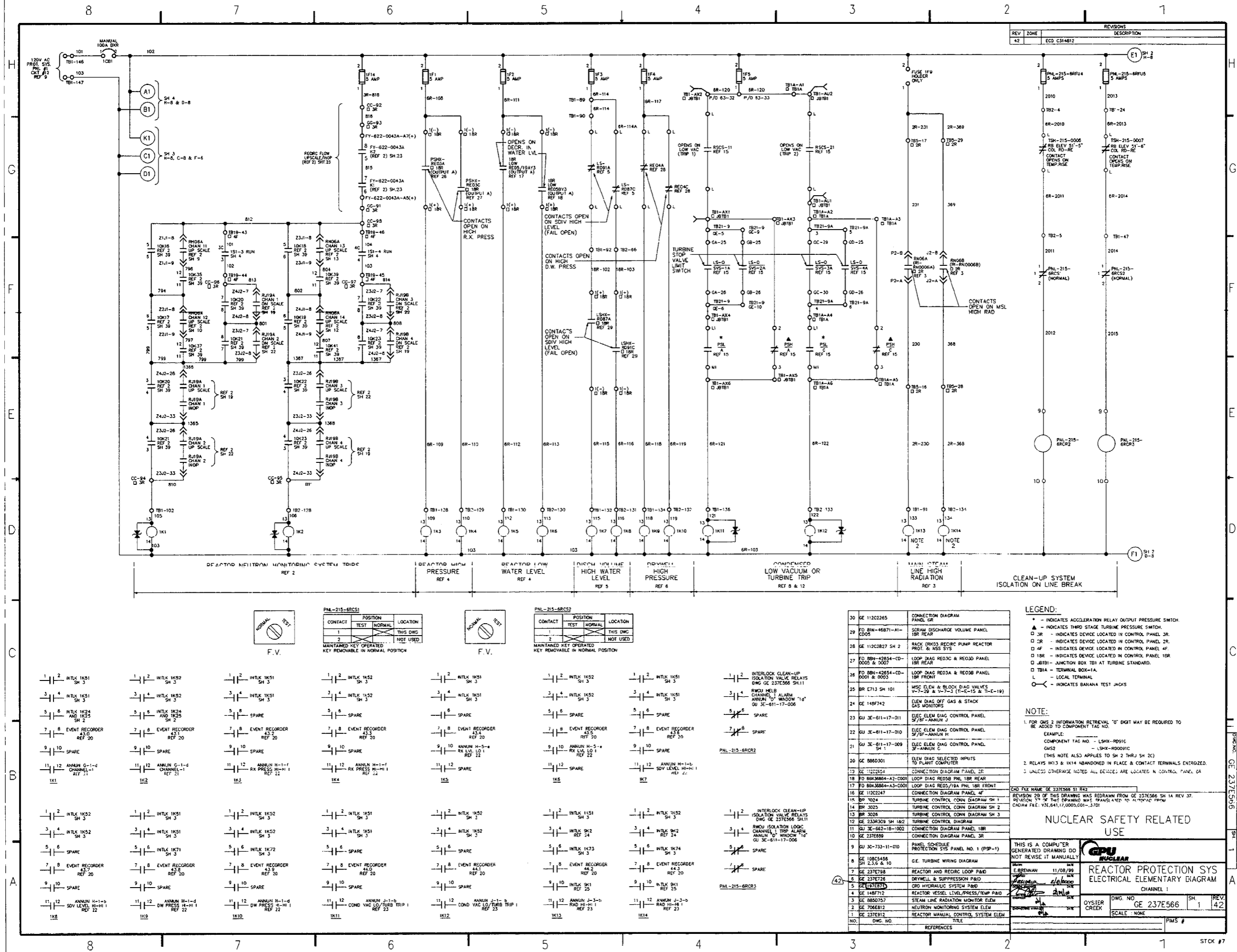
AMERGEN

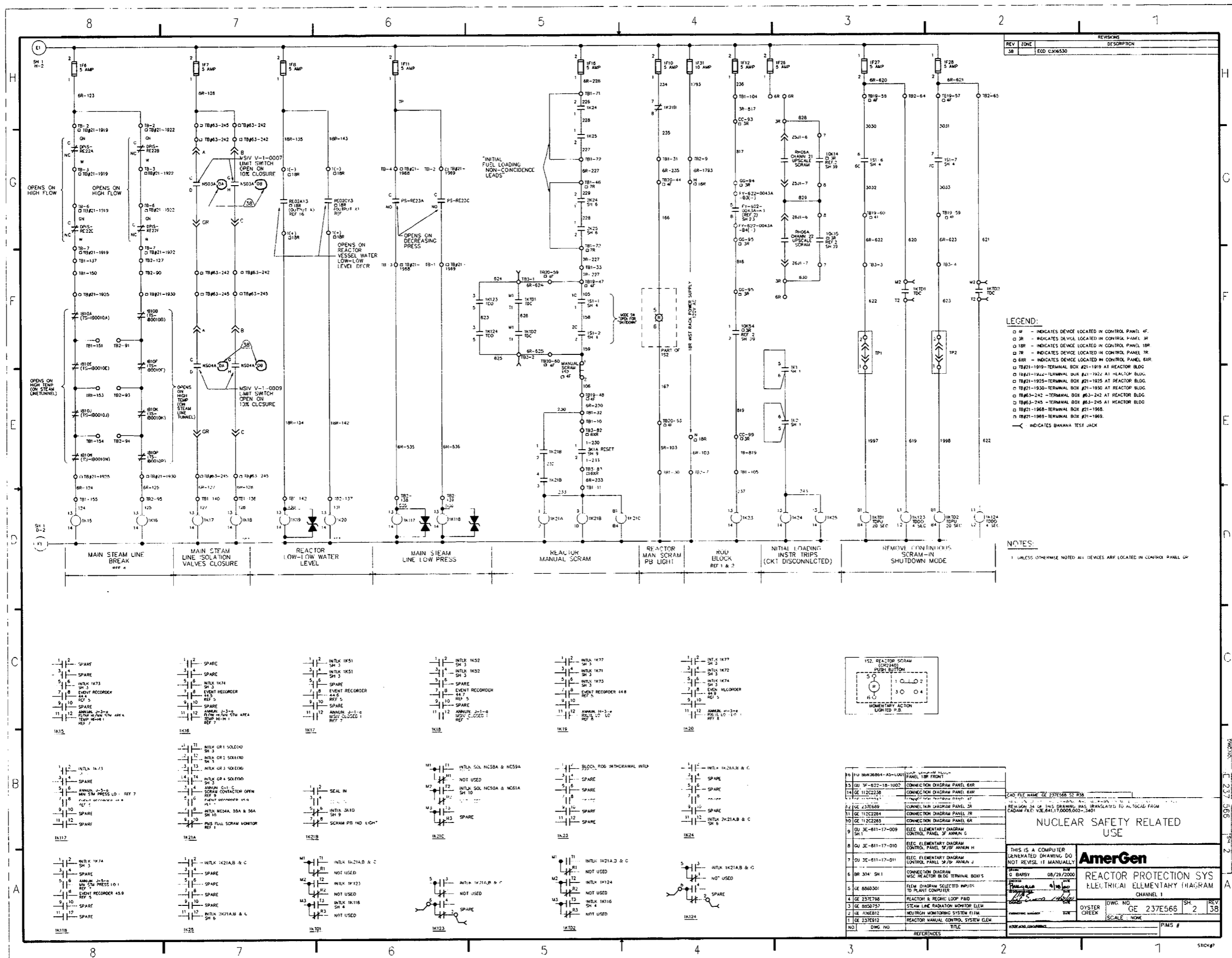
CONTROL ROD DRIVE SYSTEM
FLOW DIAGRAM

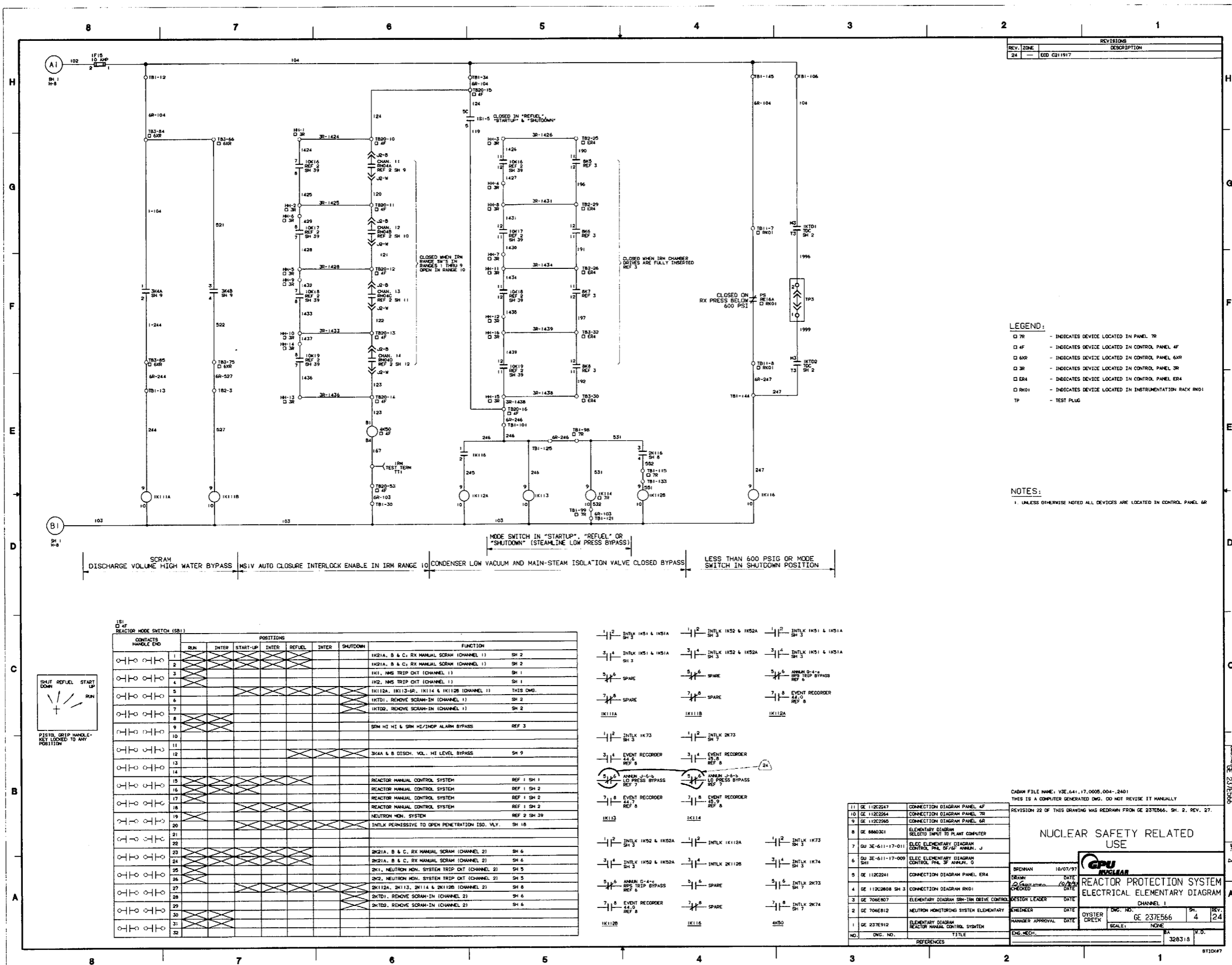
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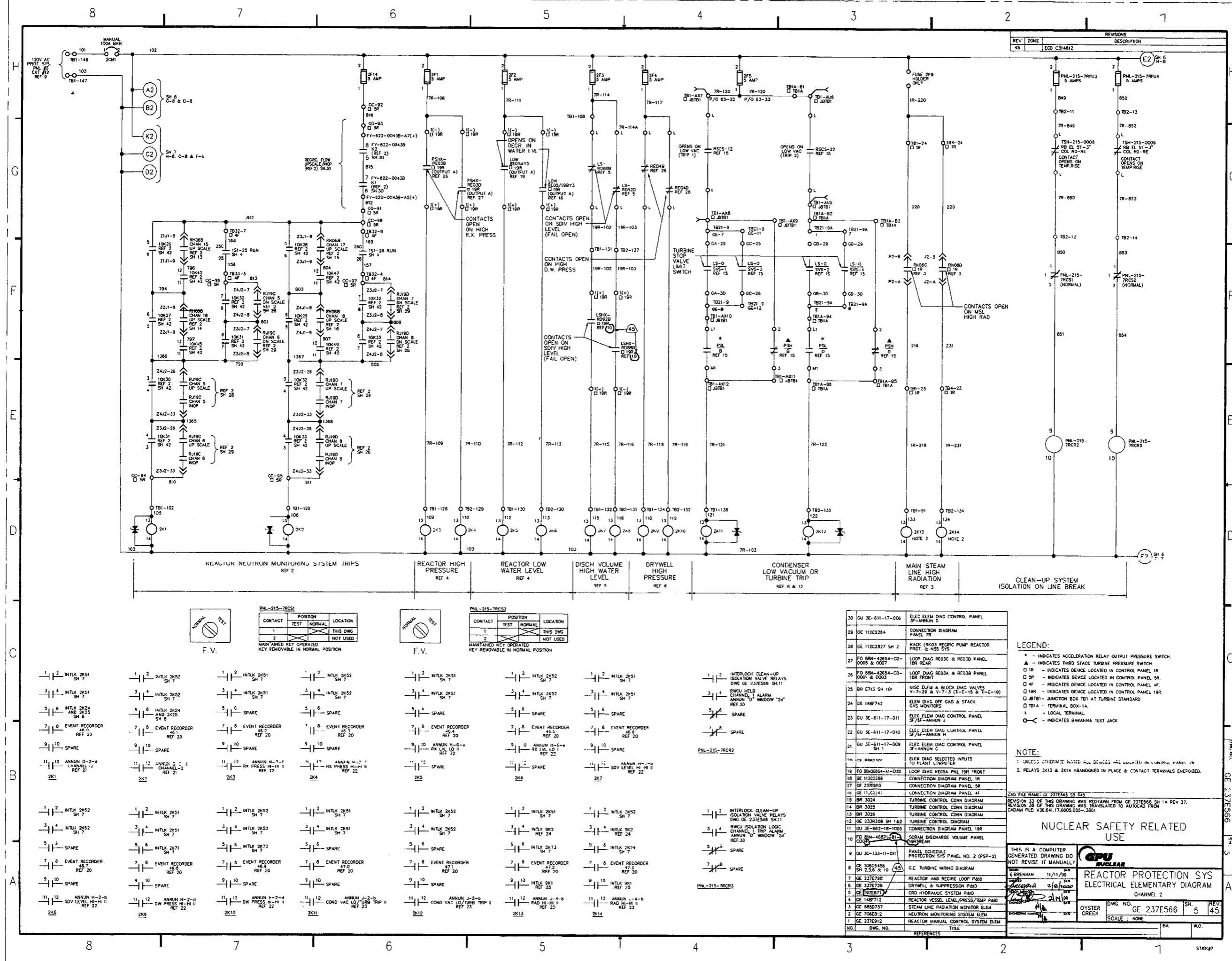
REV. 1 OF 1
REV. 63











REVISIONS		DESCRIPTION
REV	ZONE	
45	ECD	C314812

PNL-215-7RCS1		
CONTACT	POSITION	LOCATION
1	TEST	NORMAL
2	TEST	THIS DNG
3	TEST	NOT USED

PNL-215-7RCS2		
CONTACT	POSITION	LOCATION
1	TEST	NORMAL
2	TEST	THIS DNG
3	TEST	NOT USED

- LEGEND:**
- INDICATES ACCELERATION RELAY OUTPUT PRESSURE SWITCH.
 - INDICATES THIRD STAGE TURBINE PRESSURE SWITCH.
 - INDICATES DEVICE LOCATED IN CONTROL PANEL 1R.
 - INDICATES DEVICE LOCATED IN CONTROL PANEL 4R.
 - INDICATES DEVICE LOCATED IN CONTROL PANEL 19R.
 - INDICATES JUNCTION BOX TB1 AT TURBINE STANDARD.
 - INDICATES TERMINAL BOX-1A.
 - INDICATES LOCAL TERMINAL.
 - INDICATES BANANA TEST JACK.

NOTE:

1. UNLESS OTHERWISE NOTED ALL DEVICES ARE LOCATED IN CONTROL PANEL 1R.

2. RELAYS 2K13 & 2K14 ABANDONED IN PLACE & CONTACT TERMINALS ENERGIZED.

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GPU NUCLEAR

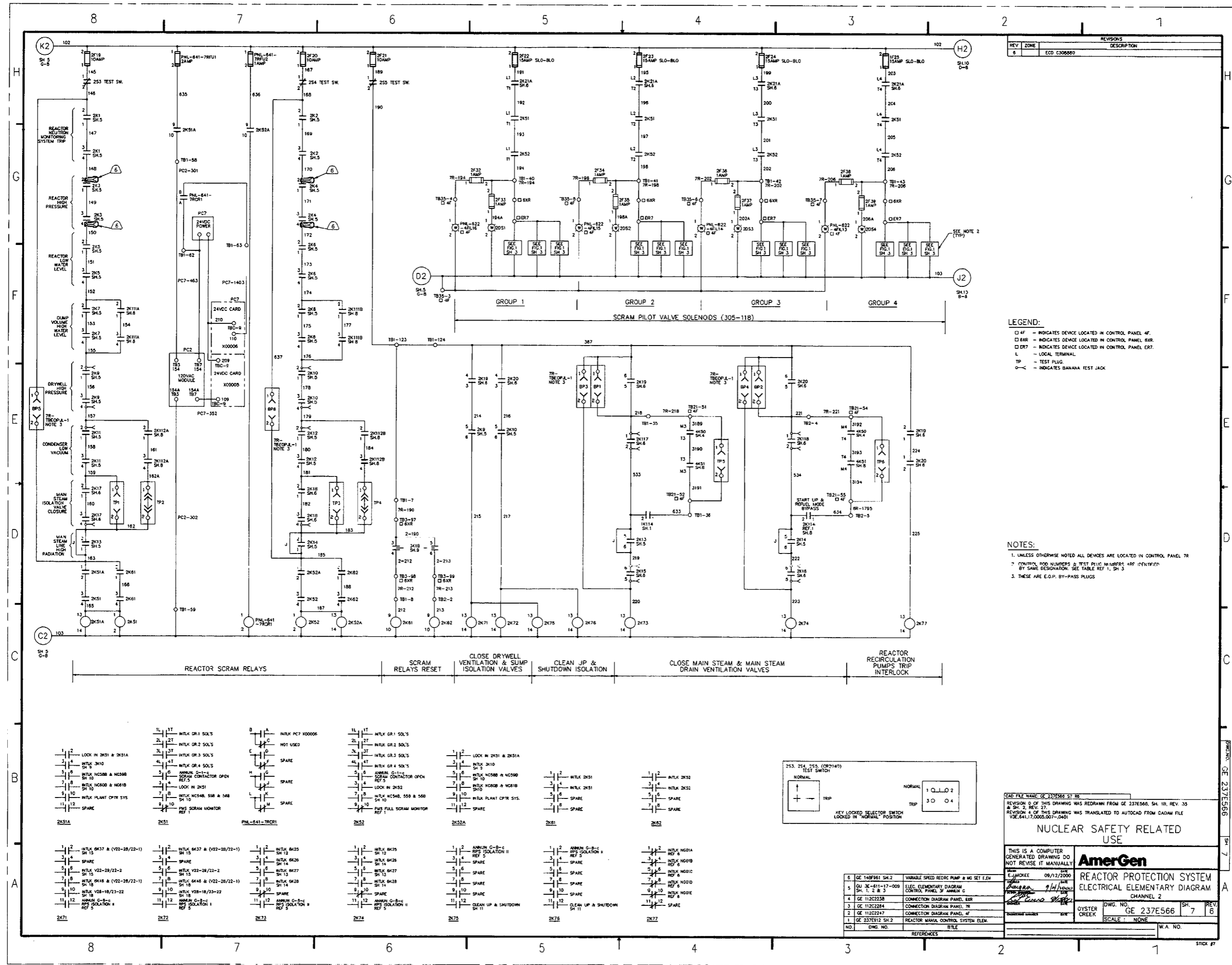
REACTOR PROTECTION SYS ELECTRICAL ELEMENTARY DIAGRAM CHANNEL 2

DWG. NO. GE 237E566 SH. 5

SCALE: NONE

SA W.D.

30	GU 3E-611-17-006	ELEC ELEM DIAG CONTROL PANEL
29	GE 112C2284	CONNECTION DIAGRAM PANEL 7R
28	GE 112C2287 SH 2	LOOP DIAG REO3C & REO3D PANEL 1R REAR
27	FO 88M-42654-CD-0005 & 0007	LOOP DIAG REO3A & REO3B PANEL 1R FRONT
26	FO 88M-42654-CD-0001 & 0003	WIDE ELEM & BLOCK DIAG VALVES 1R-7-28 & 1R-7-3 (1R-E-15 & 1R-E-18)
25	BR E713 SH 101	ELEM DIAG OFF GAS & STACK ANNUM "O" WINDOW 2d
24	GE 148F742	ELEC ELEM DIAG CONTROL PANEL 5R/6R-ANNUM J
23	GU 3E-611-17-011	ELEC ELEM DIAG CONTROL PANEL 5R/6R-ANNUM H
22	GU 3E-611-17-010	ELEC ELEM DIAG CONTROL PANEL 5R/6R-ANNUM G
21	GU 3E-611-17-009 SH 1	ELEC ELEM DIAG CONTROL PANEL 5R/6R-ANNUM F
20	FO 88M-42654-CD-0001 & 0003	ELEM DIAG SELECTED INPUTS TO PLANT COMPUTER
19	FO 88M-42654-CD-0001 & 0003	LOOP DIAG REO3A & REO3B PANEL 1R FRONT
18	GE 112C2284	CONNECTION DIAGRAM PANEL 1R
17	GE 237E690	CONNECTION DIAGRAM PANEL 5R
16	GE 112C224	CONNECTION DIAGRAM PANEL 4R
15	BR 3024	TURBINE CONTROL CONN DIAGRAM
14	BR 3025	TURBINE CONTROL CONN DIAGRAM
13	BR 3026	TURBINE CONTROL CONN DIAGRAM
12	GE 237E726	TURBINE CONTROL CONN DIAGRAM
11	GU 3E-611-17-003	CONNECTION DIAGRAM PANEL 19R
10	FO 88M-42654-CD-0001 & 0003	SCRAM DISCHARGE VOLUME PANEL 1R
9	GU 3E-733-11-011	PANEL SCHEMATIC PROTECTION SYS PANEL NO. 2 (PSP-2)
8	GE 108C4456 SH 2,3 & 10	GE TURBINE WIRING DIAGRAM
7	GE 237E726	REACTOR AND REO3C LOOP P&ID
6	GE 237E726	DRYWELL & SUPPRESSION P&ID
5	GE 237E726	CRD HYDRAULIC SYSTEM P&ID
4	GE 148F712	REACTOR VESSEL LEVEL/PRESS/TEMP P&ID
3	GE 8850757	STEAM LINE RADIATION MONITOR ELEM
2	GE 706E812	NEUTRON MONITORING SYSTEM ELEM
1	GE 237E912	REACTOR MANUAL CONTROL SYSTEM ELEM



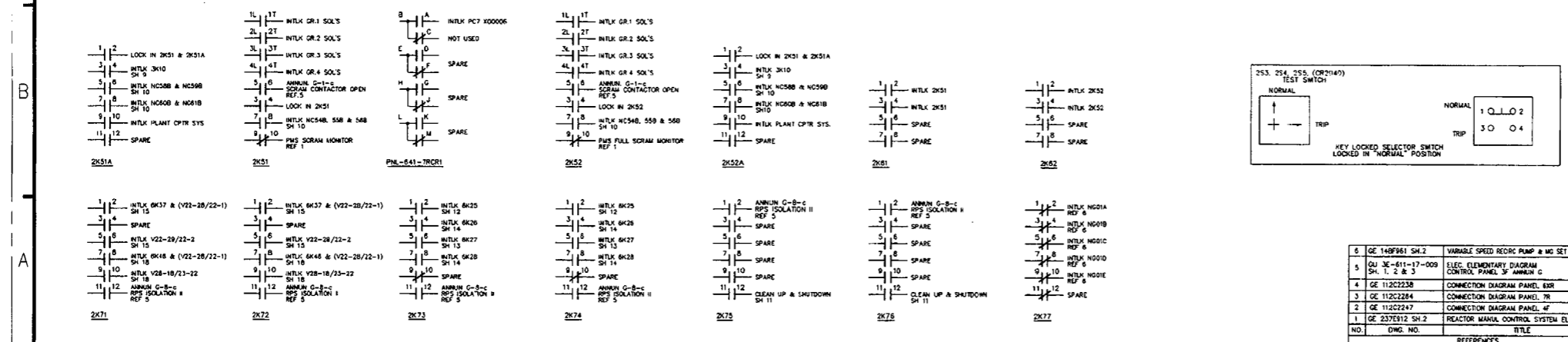
REVISIONS		
REV	ZONE	DESCRIPTION
6	ECO	C306860

LEGEND:

- 4F - INDICATES DEVICE LOCATED IN CONTROL PANEL 4F.
- 6XR - INDICATES DEVICE LOCATED IN CONTROL PANEL 6XR.
- 6R7 - INDICATES DEVICE LOCATED IN CONTROL PANEL 6R7.
- L - LOCAL TERMINAL.
- TP - TEST PLUG.
- - INDICATES BANANA TEST JACK.

NOTES:

- UNLESS OTHERWISE NOTED ALL DEVICES ARE LOCATED IN CONTROL PANEL 7R.
- CONTROL PNL NUMBERS & TEST PLUG NUMBERS ARE IDENTIFIED BY SAME DESIGNATION. SEE TABLE REF 1, SH 3.
- THESE ARE E.O.P. BY-PASS PLUGS.



CAD FILE NAME: GE 237E566 57.RS

REVISION 0 OF THIS DRAWING WAS REDRAWN FROM GE 237E566, SH 1B, REV. 35 & SH 2, REV. 27.

REVISION 4 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADAM FILE YOE-641.17-0000-007-0040.

NUCLEAR SAFETY RELATED USE

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AmerGen

REACTOR PROTECTION SYSTEM ELECTRICAL ELEMENTARY DIAGRAM CHANNEL 2

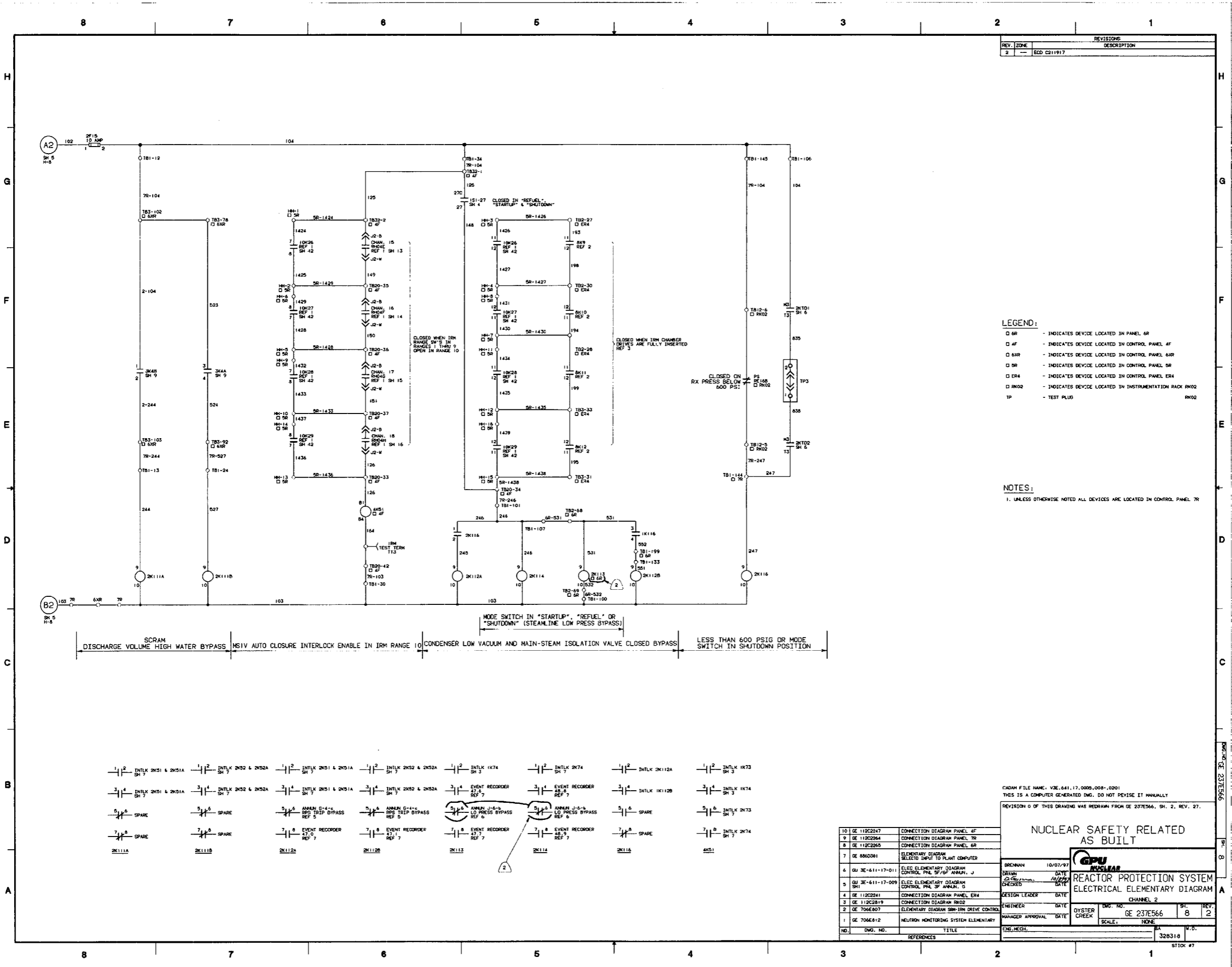
OWYER CREEK

DWG. NO. GE 237E566

SCALE: NONE

W.A. NO.

NO.	DWG. NO.	REFERENCES	TITLE
6	GE 148F961 SH.2		VARIABLE SPEED RECIRC PUMP & MG SET LEW
5	GE 3E-611-17-009		ELEC. ELEMENTARY DIAGRAM CONTROL PANEL 3F AMMULIN C
4	GE 112C2338		CONNECTION DIAGRAM PANEL 6XR
3	GE 112C2284		CONNECTION DIAGRAM PANEL 7R
2	GE 112C2247		CONNECTION DIAGRAM PANEL 4F
1	GE 237E112 SH.2		REACTOR MANUAL CONTROL SYSTEM ELEM.

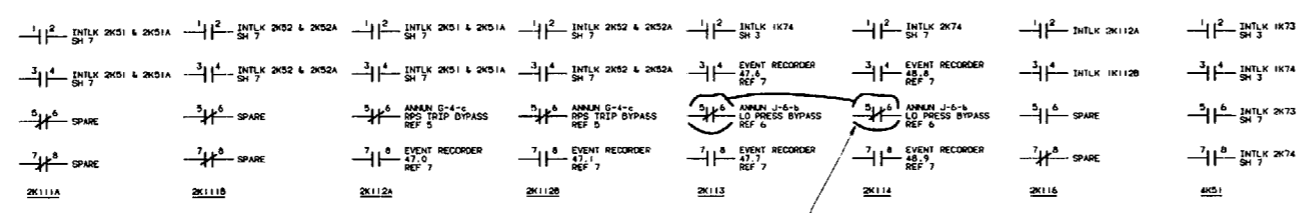


REVISIONS	
REV.	DESCRIPTION
2	ECD 02/19/77

- LEGEND:
- SR - INDICATES DEVICE LOCATED IN PANEL SR
 - AF - INDICATES DEVICE LOCATED IN CONTROL PANEL AF
 - BR - INDICATES DEVICE LOCATED IN CONTROL PANEL BR
 - DR - INDICATES DEVICE LOCATED IN CONTROL PANEL DR
 - ER - INDICATES DEVICE LOCATED IN CONTROL PANEL ER
 - RK02 - INDICATES DEVICE LOCATED IN INSTRUMENTATION RACK RK02
 - TP - TEST PLUG

NOTES:

1. UNLESS OTHERWISE NOTED ALL DEVICES ARE LOCATED IN CONTROL PANEL 7R



NO.	DWG. NO.	TITLE
10	GE 112C2247	CONNECTION DIAGRAM PANEL AF
9	GE 112C2264	CONNECTION DIAGRAM PANEL 7R
8	GE 112C2265	CONNECTION DIAGRAM PANEL BR
7	GE 8860381	ELEMENTARY DIAGRAM SELECT INPUT TO PLANT COMPUTER
6	GE 3E-611-17-011	ELEC ELEMENTARY DIAGRAM CONTROL PNL 5F/5F ANNUN. J
5	GE 3E-611-17-009	ELEC ELEMENTARY DIAGRAM CONTROL PNL 3F ANNUN. G
4	GE 112C2241	CONNECTION DIAGRAM PANEL ER
3	GE 112C2819	ELEMENTARY DIAGRAM 500-IRM DRIVE CONTROL
2	GE 706E807	NEUTRON MONITORING SYSTEM ELEMENTARY
1	GE 706E812	NEUTRON MONITORING SYSTEM ELEMENTARY

CADAM FILE NAME: V3E.641.17.0005.008.0201
THIS IS A COMPUTER GENERATED DWG. DO NOT REVISE IT MANUALLY.
REVISION 0 OF THIS DRAWING WAS REDRAWN FROM GE 237E566, SH. 2, REV. 27.

NUCLEAR SAFETY RELATED AS BUILT

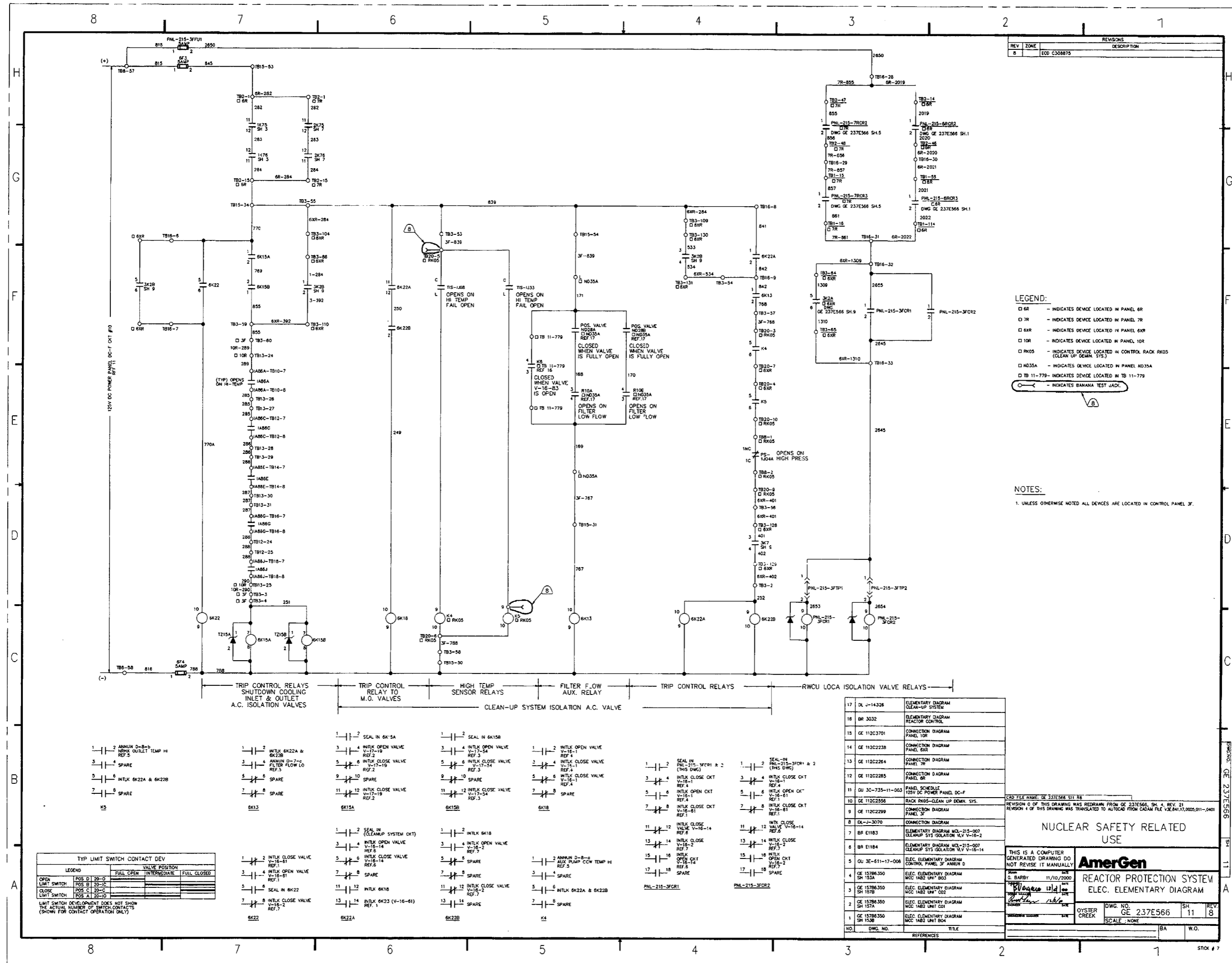
GPU NUCLEAR

REACTOR PROTECTION SYSTEM ELECTRICAL ELEMENTARY DIAGRAM

CHANNEL 2

DWG. NO.	328318	REV.	8
SCALE	NONE	DATE	10/07/97

STOCK #7



REV		ZONE		REVISIONS	
NO.	DATE	BY	CHKD	DESCRIPTION	
1				ECO C308875	

- LEGEND:
- 6R - INDICATES DEVICE LOCATED IN PANEL 6R
 - 7R - INDICATES DEVICE LOCATED IN PANEL 7R
 - 6XR - INDICATES DEVICE LOCATED IN PANEL 6XR
 - 10R - INDICATES DEVICE LOCATED IN PANEL 10R
 - RK05 - INDICATES DEVICE LOCATED IN CONTROL RACK RK05 (CLEAN UP DEMON. SYS.)
 - ND35A - INDICATES DEVICE LOCATED IN PANEL ND35A
 - 11-779 - INDICATES DEVICE LOCATED IN TB 11-779
 - 8 - INDICATES BANANA TEST JACK

NOTES:

1. UNLESS OTHERWISE NOTED ALL DEVICES ARE LOCATED IN CONTROL PANEL 3F.

TYP. LIMIT SWITCH CONTACT DEV.			
LEGEND		VALVE POSITION	
OPEN	POS. D 20-0	FULL OPEN	FULL CLOSED
CLOSE	POS. B 20-10		
LIMIT SWITCH	POS. C 20-10		

LIMIT SWITCH DEVELOPMENT DOES NOT SHOW THE ACTUAL NUMBER OF SWITCH CONTACTS (SHOWN FOR CONTACT OPERATION ONLY)

NUCLEAR SAFETY RELATED USE

AmerGen

REACTOR PROTECTION SYSTEM
ELEC. ELEMENTARY DIAGRAM

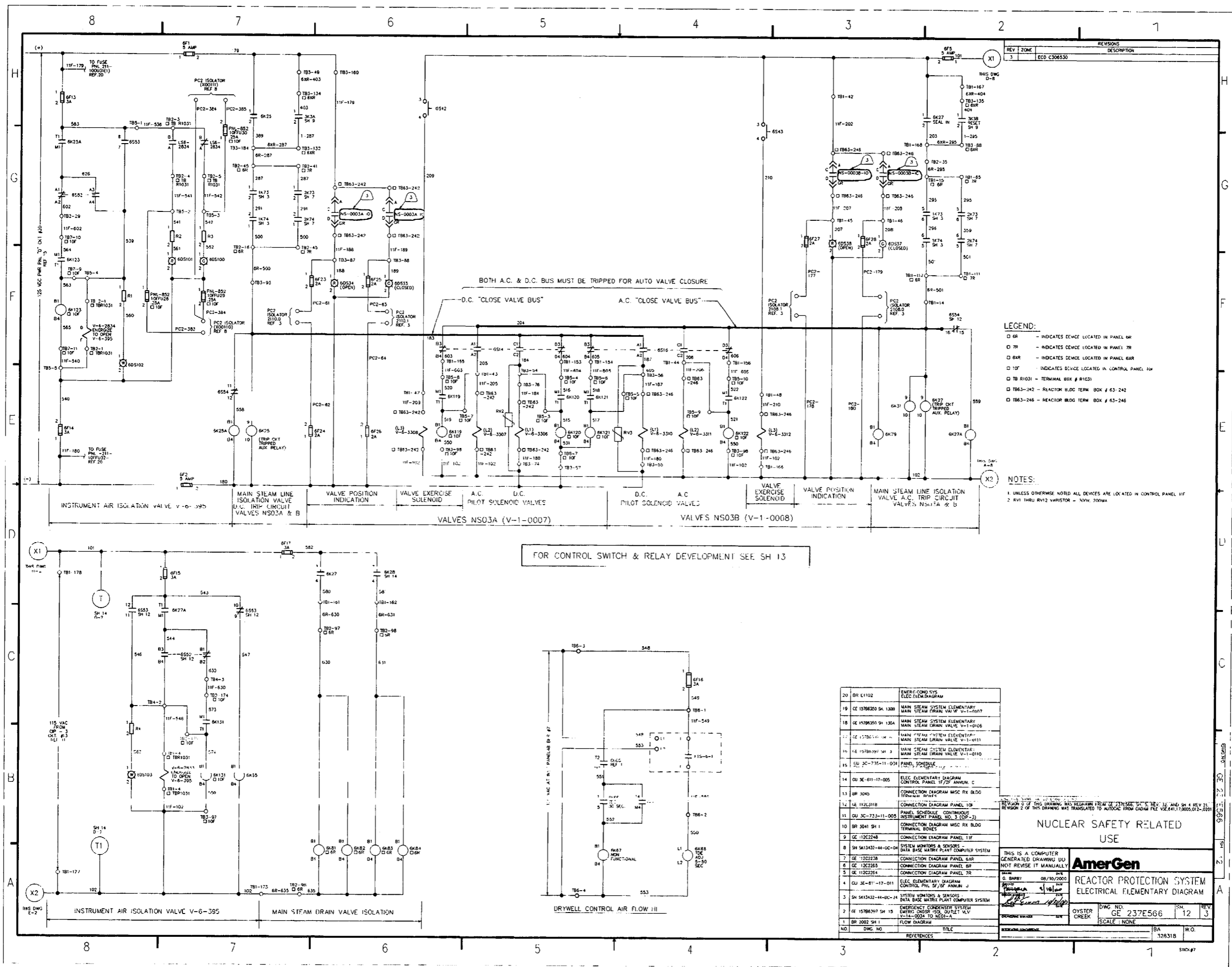
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DATE: 11/10/2000
BY: G. BARBY
CHKD: [Signature]
APP'D: [Signature]

DWG. NO. GE 237E566
SCALE: NONE
REV. 8

STOCK # 7

NO.	DWG. NO.	TITLE
17	DL-14326	ELEMENTARY DIAGRAM CLEAN-UP SYSTEM
18	BR 3032	ELEMENTARY DIAGRAM REACTOR CONTROL
15	GE 112C3701	CONNECTION DIAGRAM PANEL 10R
14	GE 112C2238	CONNECTION DIAGRAM PANEL 6XR
13	GE 112C2264	CONNECTION DIAGRAM PANEL 7R
12	GE 112C2285	CONNECTION DIAGRAM PANEL 6R
11	GU 3C-735-11-003	PANEL SCHEDULE 220V DC POWER PANEL DC-F
10	GE 112C2356	RACK RK05-CLEAN UP DEMON. SYS.
9	GE 112C2299	CONNECTION DIAGRAM PANEL 3F
8	DL-2-3070	CONNECTION DIAGRAM
7	BR E1183	ELEMENTARY DIAGRAM MCL-215-007 CLEANUP SYS ISOLATION VLV V-16-2
6	BR E1184	ELEMENTARY DIAGRAM MCL-215-007 CLEANUP SYS ISOLATION VLV V-16-14
5	GU 3C-611-17-006	ELEC. ELEMENTARY DIAGRAM CONTROL PANEL 3F ANNUN D
4	GE 15786350 SH 153A	ELEC. ELEMENTARY DIAGRAM MCL 1AB2 UNIT B03
3	GE 15786350 SH 157B	ELEC. ELEMENTARY DIAGRAM MCL 1AB2 UNIT C02
2	GE 15786350 SH 157A	ELEC. ELEMENTARY DIAGRAM MCL 1AB2 UNIT C01
1	GE 15786350 SH 153B	ELEC. ELEMENTARY DIAGRAM MCL 1AB2 UNIT B04



- LEGEND:**
- 6R - INDICATES DEVICE LOCATED IN PANEL 6R
 - 7R - INDICATES DEVICE LOCATED IN PANEL 7R
 - 6XR - INDICATES DEVICE LOCATED IN PANEL 6XR
 - 10F - INDICATES DEVICE LOCATED IN CONTROL PANEL 10F
 - TB 1031 - TERMINAL BOX # 1031
 - TB63-242 - REACTOR BLDG TERM. BOX # 63-242
 - TB63-246 - REACTOR BLDG TERM. BOX # 63-246

- NOTES:**
1. UNLESS OTHERWISE NOTED ALL DEVICES ARE LOCATED IN CONTROL PANEL 11F
 2. RV1 THRU RV12 VARISTOR - 200V, 200MA

20	BR E1102	EMERG COND SYS ELEC ELEMENTARY DIAGRAM
19	CE 1578630 SH 1308	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0107
18	CE 1578630 SH 1304	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0106
17	CE 1578630 SH 1301	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0105
16	CE 1578630 SH 1300	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0104
15	CE 1578630 SH 1299	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0103
14	CE 1578630 SH 1298	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0102
13	CE 1578630 SH 1297	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0101
12	CE 1578630 SH 1296	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0100
11	CE 1578630 SH 1295	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0099
10	CE 1578630 SH 1294	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0098
9	CE 1578630 SH 1293	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0097
8	CE 1578630 SH 1292	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0096
7	CE 1578630 SH 1291	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0095
6	CE 1578630 SH 1290	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0094
5	CE 1578630 SH 1289	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0093
4	CE 1578630 SH 1288	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0092
3	CE 1578630 SH 1287	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0091
2	CE 1578630 SH 1286	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0090
1	CE 1578630 SH 1285	MAIN STEAM SYSTEM ELEMENTARY MAIN STEAM DRAIN VALVE V-1-0089

NUCLEAR SAFETY RELATED USE

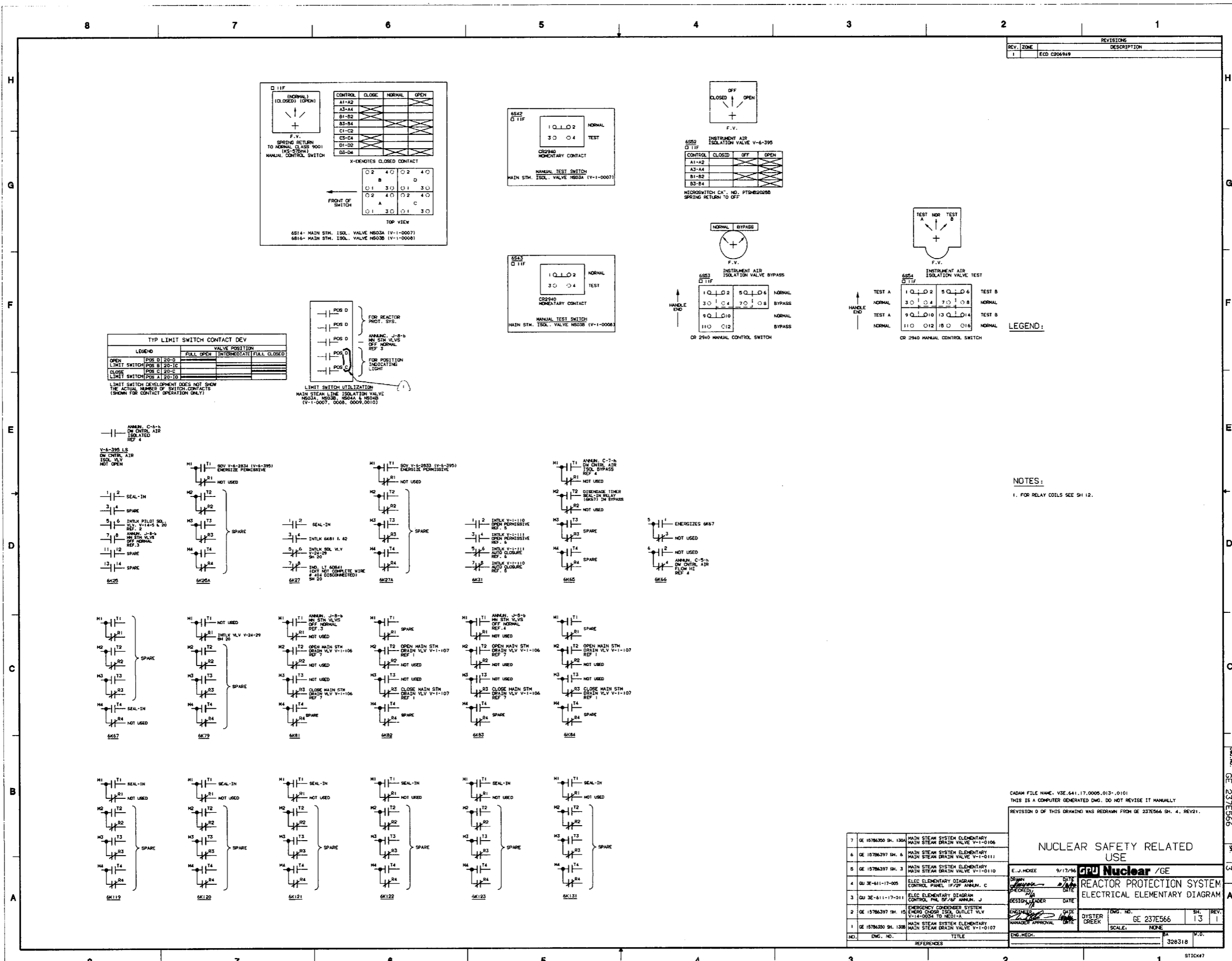
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AmerGen

REACTOR PROTECTION SYSTEM ELECTRICAL ELEMENTARY DIAGRAM

DATE: 08/10/2000
 BY: G. BARBY
 CHECKED: J. BARBY
 APPROVED: J. BARBY

DWG NO: GE 237E566
 SCALE: NONE
 SHEET: 12 OF 3



REVISIONS	
REV.	DESCRIPTION
1	ECD C206949

TYP LIMIT SWITCH CONTACT DEV			
LEGEND		VALVE POSITION	
OPEN	POS D 20-0	FULL OPEN	INTERMEDIATE FULL CLOSED
CLOSE	POS C 20-0		
	POS B 20-0		
	POS A 20-0		

NOTES:
1. FOR RELAY COILS SEE SH 12.

NO.	DWG. NO.	TITLE
7	GE 1578350 SH. 130A	MAIN STEAM SYSTEM ELEMENTARY
6	GE 1578350 SH. 130B	MAIN STEAM SYSTEM ELEMENTARY
5	GE 1578350 SH. 130C	MAIN STEAM SYSTEM ELEMENTARY
4	GE 1578350 SH. 130D	MAIN STEAM SYSTEM ELEMENTARY
3	GE 1578350 SH. 130E	MAIN STEAM SYSTEM ELEMENTARY
2	GE 1578350 SH. 130F	MAIN STEAM SYSTEM ELEMENTARY
1	GE 1578350 SH. 130G	MAIN STEAM SYSTEM ELEMENTARY

CADAM FILE NAME: VSE.641.17.0005.013-0101
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REVISION D OF THIS DRAWING WAS REDRAWN FROM GE 237E566 SH. 4, REV21.

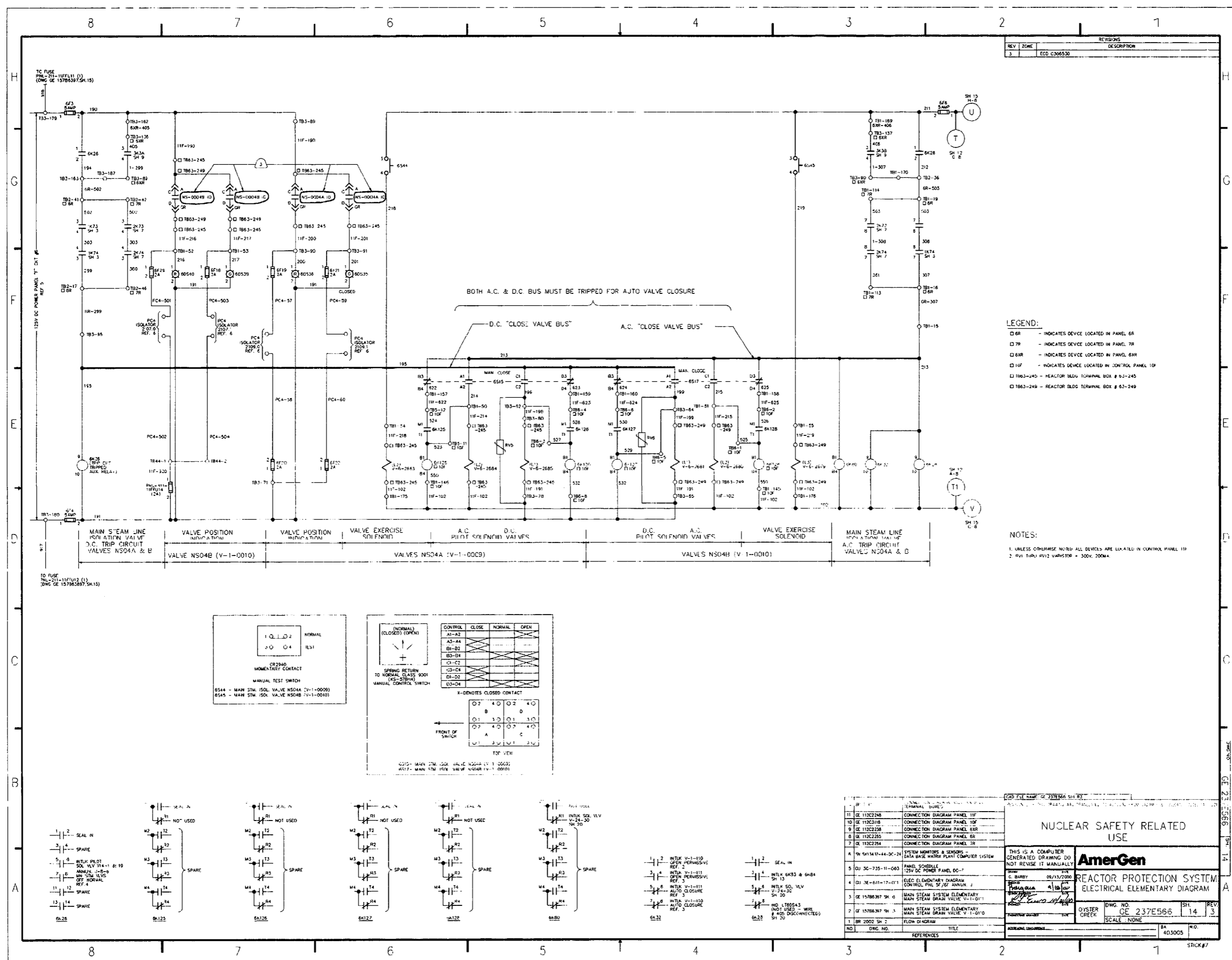
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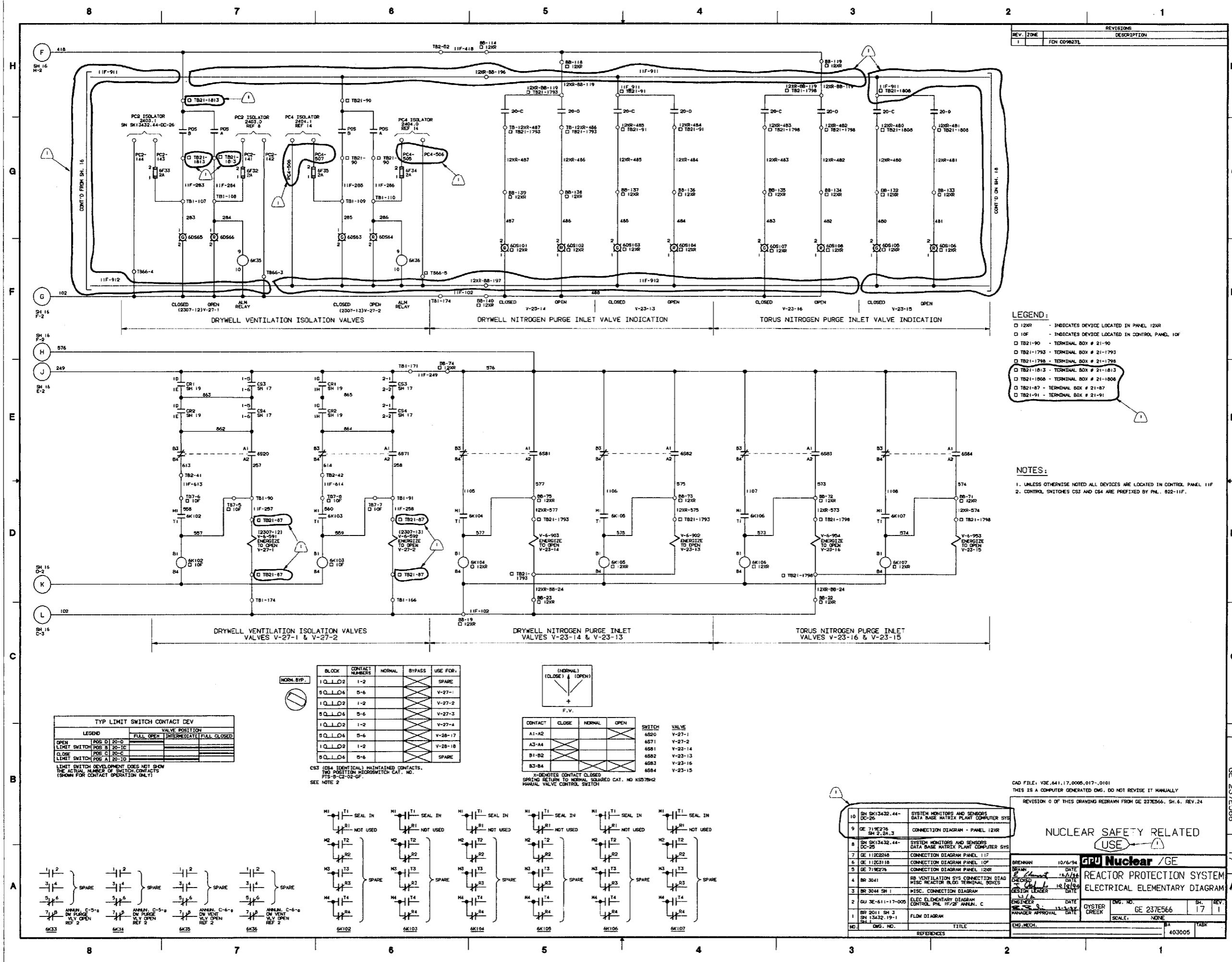
REACTOR PROTECTION SYSTEM ELECTRICAL ELEMENTARY DIAGRAM

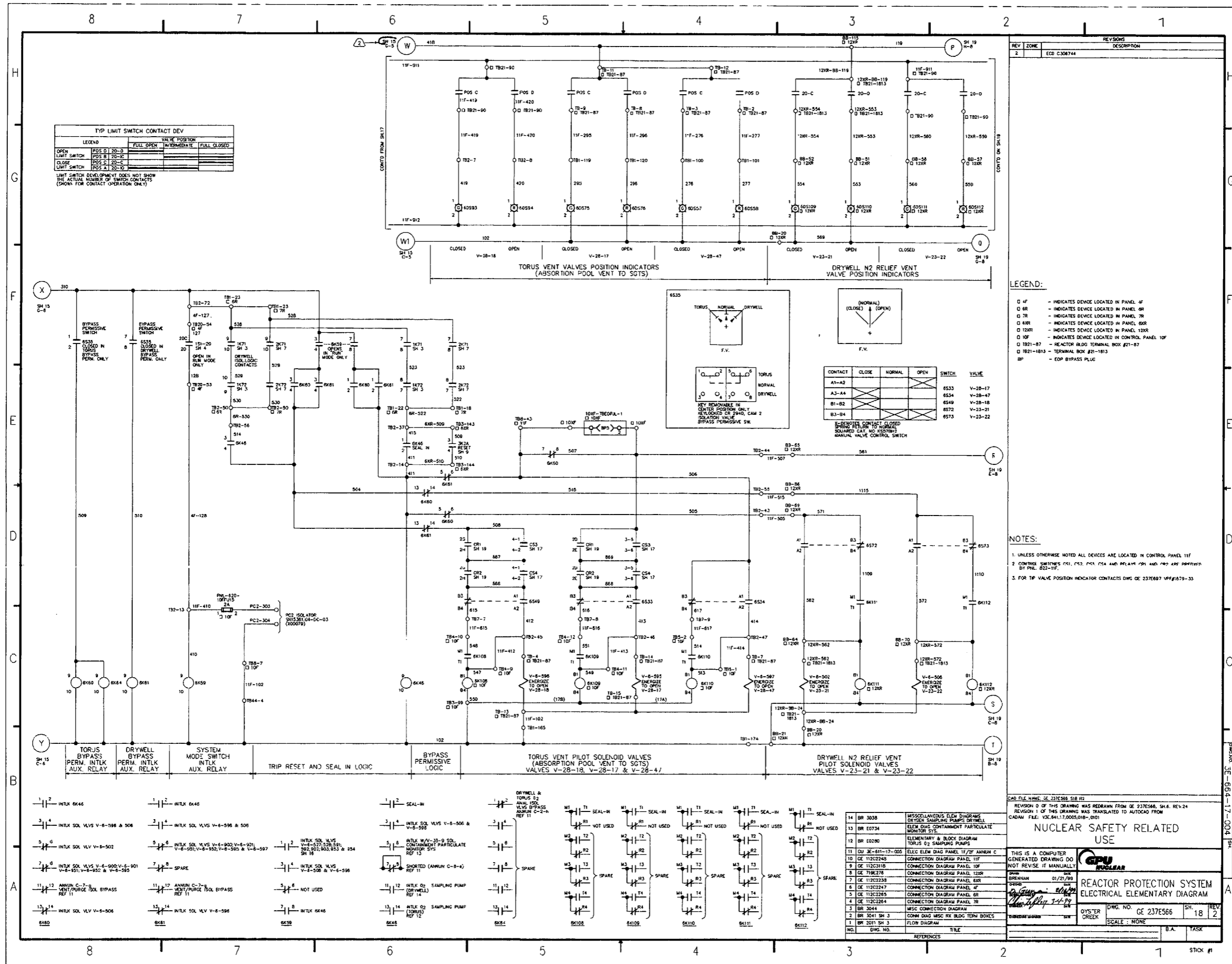
ENGINEER: E.J. MOORE
DATE: 9/17/94
DESIGNER: J. MOORE
DATE: 9/17/94
CHECKED: J. MOORE
DATE: 9/17/94
APPROVED: J. MOORE
DATE: 9/17/94

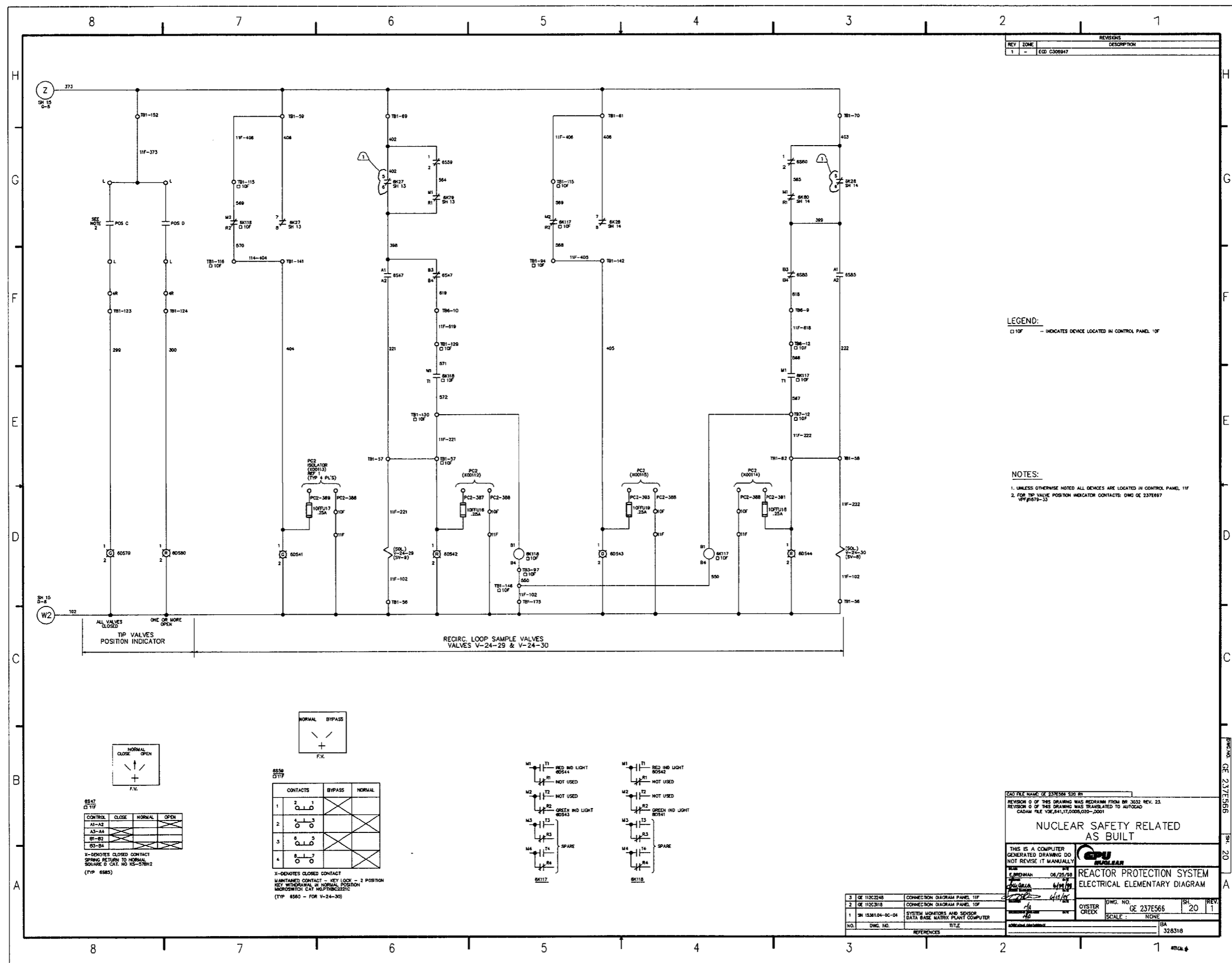
DWG. NO. 237E566
SCALE: NONE
REV. 13

GE 1578350 SH. 130A
GE 1578350 SH. 130B
GE 1578350 SH. 130C
GE 1578350 SH. 130D
GE 1578350 SH. 130E
GE 1578350 SH. 130F
GE 1578350 SH. 130G





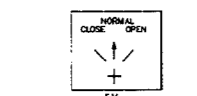




REVISIONS	
REV	DESCRIPTION
1	ED C308947

LEGEND:
□ 10F -- INDICATES DEVICE LOCATED IN CONTROL PANEL 10F

NOTES:
1. UNLESS OTHERWISE NOTED ALL DEVICES ARE LOCATED IN CONTROL PANEL 11F
2. FOR TIP VALVE POSITION INDICATOR CONTACTS: DWG DE 237E667
VFP#019-33

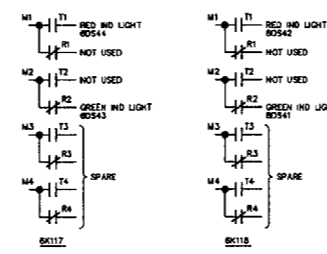


CONTACTS	CONTROL	CLOSE	NORMAL	OPEN
1	AL-A3			
2	AL-A3			
3	BT-B3			
4	BT-B3			

X-DENOTES CLOSED CONTACT
SPRING RETURN TO NORMAL
SQUARE D CAT. NO. RS-378H2
(TYP 6585)

CONTACTS	BYPASS	NORMAL
1		
2		
3		
4		

X-DENOTES CLOSED CONTACT
MAINTAINED CONTACT - KEY LOCK - 2 POSITION
RESET WITH NORMAL IN NORMAL POSITION
MICROSWITCH C-11 MULTIPROCESSOR
(TYP 6580 - FOR V-24-30)



3	GE 112C2248	CONNECTION DIAGRAM PANEL 11F
2	GE 112C3118	CONNECTION DIAGRAM PANEL 10F
1	SN 1536104-DC-04	SYSTEM MONITORS AND SPONSOR DATA BASE MATRYX PLANT COMPUTER
NO.	DWG. NO.	TITLE
		REFERENCES

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

REVISION 0 OF THIS DRAWING WAS REDRAWN FROM BR 3032 REV. 23
REVISION 0 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD
CADDAM FILE V06,041,17,0005,000-0001

NUCLEAR SAFETY RELATED AS BUILT

REACTOR PROTECTION SYSTEM ELECTRICAL ELEMENTARY DIAGRAM

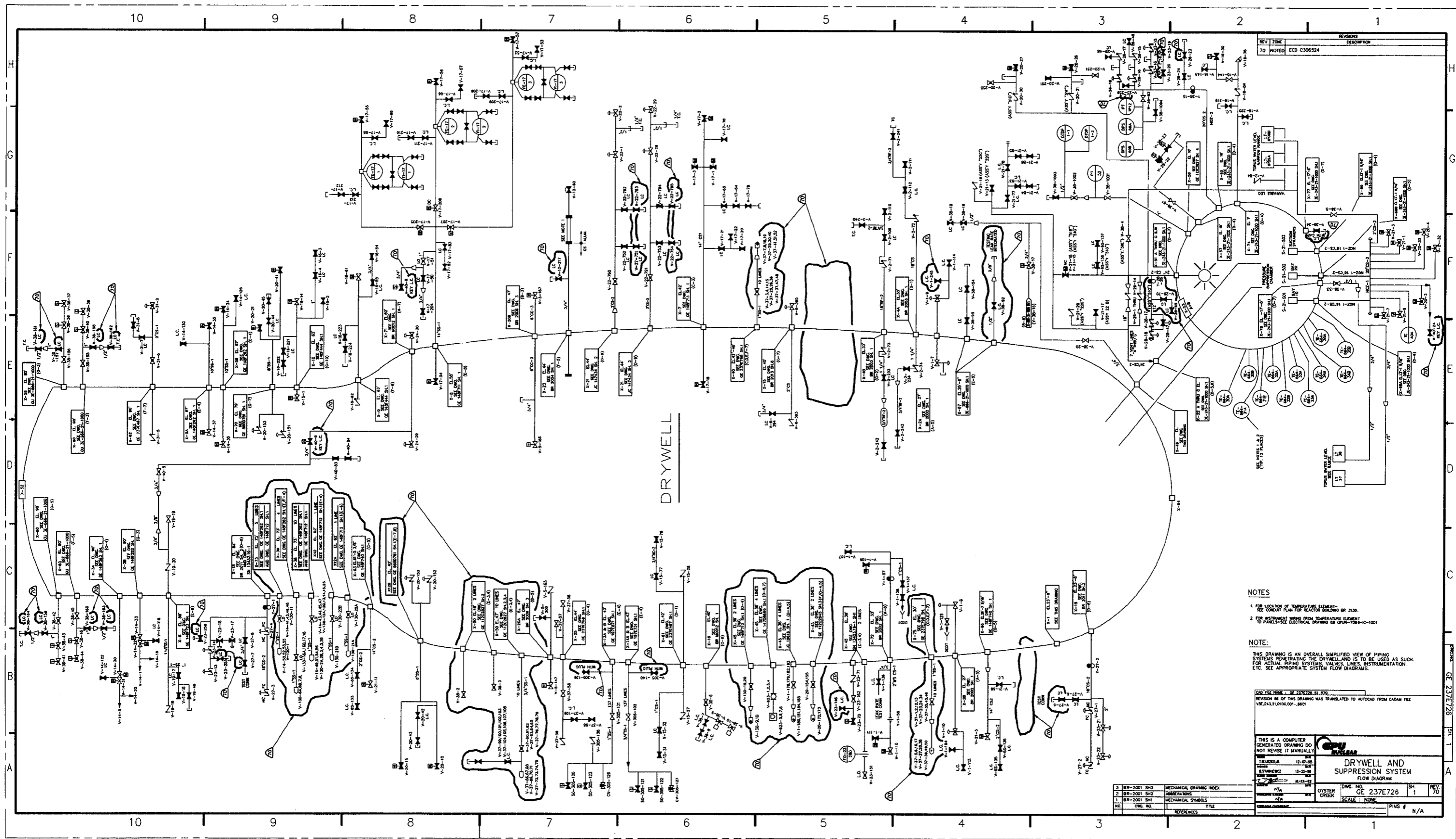
THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

REVISION 0 OF THIS DRAWING WAS REDRAWN FROM BR 3032 REV. 23
REVISION 0 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD
CADDAM FILE V06,041,17,0005,000-0001

DATE: 08/25/93
BY: E. BRENNAN
CHECKED: 6/24/99
APPROVED: 6/24/99

OWYSTER CREEK
SCALE: NONE
DWG. NO. GE 237E566
SHEET 20
REV. 1

328318



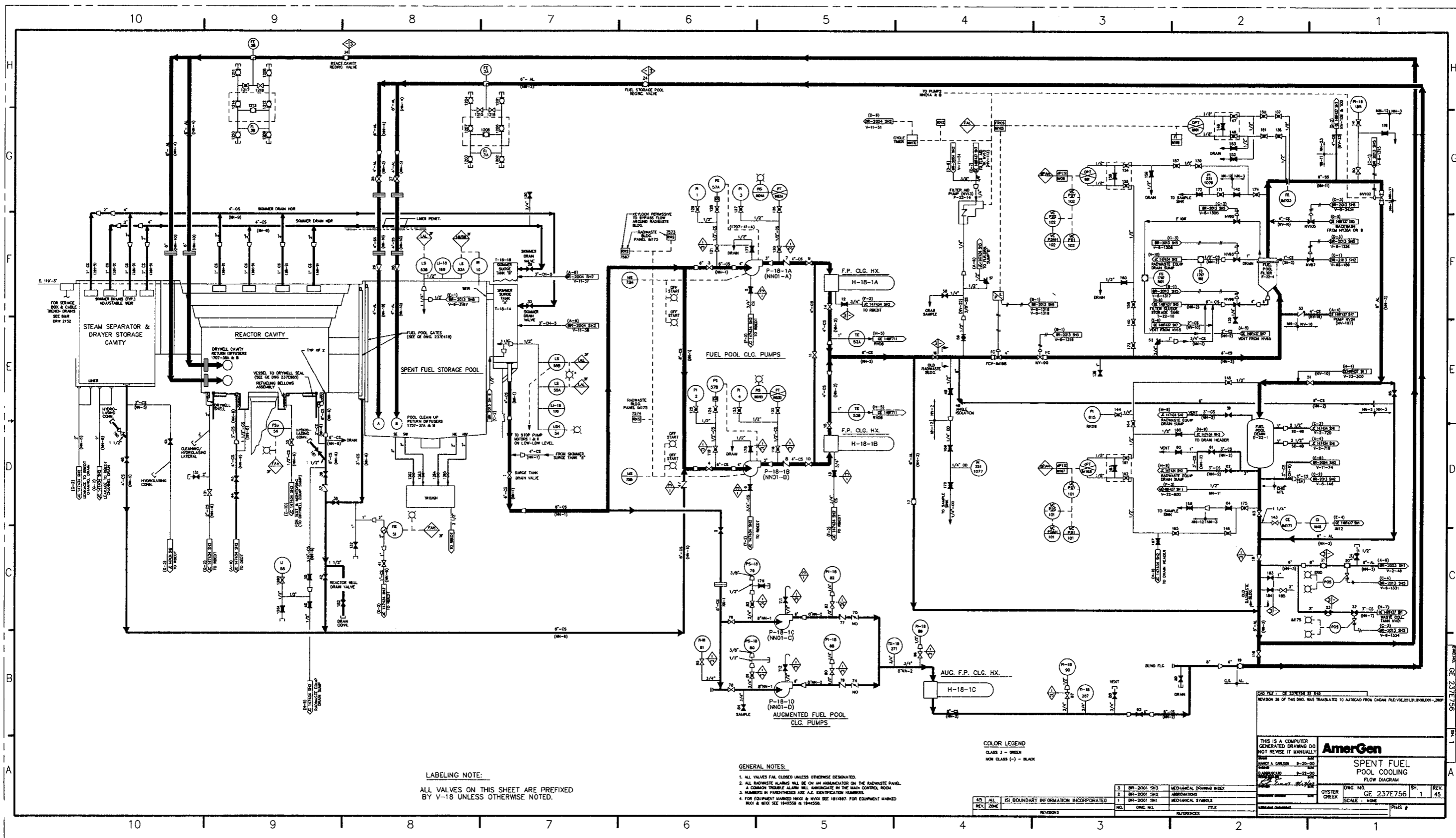
REVISIONS	
REV	DESCRIPTION
70	NOTED ECD C306524

- NOTES
1. FOR LOCATION OF TEMPERATURE ELEMENTS - SEE CONDUIT PLAN FOR REACTOR BUILDING BR 3130.
 2. FOR INSTRUMENT WIRING FROM TEMPERATURE ELEMENT TO PANELS - SEE ELECTRICAL DRAWING CH 7000-1001.

NOTE:
THIS DRAWING IS AN OVERALL SIMPLIFIED VIEW OF PIPING SYSTEMS PENETRATING THE DRYWELL AND IS TO BE USED AS SUCH. FOR ACTUAL PIPING SYSTEMS, VALVES, LINES, INSTRUMENTATION, ETC. SEE APPROPRIATE SYSTEM FLOW DIAGRAMS.

END FILE NAME: GE 237E726 SH 1 P70
REVISION BE OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADAM FILE VIE.23A131.0100001-0001

THIS IS A COMPUTER GENERATED DRAWING DO NOT REUSE IT MANUALLY	
1	DRYWELL AND SUPPRESSION SYSTEM FLOW DIAGRAM
2	DRYWELL AND SUPPRESSION SYSTEM FLOW DIAGRAM
3	DRYWELL AND SUPPRESSION SYSTEM FLOW DIAGRAM
4	DRYWELL AND SUPPRESSION SYSTEM FLOW DIAGRAM
5	DRYWELL AND SUPPRESSION SYSTEM FLOW DIAGRAM
6	DRYWELL AND SUPPRESSION SYSTEM FLOW DIAGRAM
7	DRYWELL AND SUPPRESSION SYSTEM FLOW DIAGRAM
8	DRYWELL AND SUPPRESSION SYSTEM FLOW DIAGRAM
9	DRYWELL AND SUPPRESSION SYSTEM FLOW DIAGRAM
10	DRYWELL AND SUPPRESSION SYSTEM FLOW DIAGRAM



LABELING NOTE:
ALL VALVES ON THIS SHEET ARE PREFIXED BY V-18 UNLESS OTHERWISE NOTED.

- GENERAL NOTES:**
- 1. ALL VALVES F.M. CLOSED UNLESS OTHERWISE DESIGNATED.
 - 2. ALL RADIOACTIVE ALARMS WILL BE ON AN ANNUNCIATOR ON THE RADIOACTIVE PANEL.
 - 3. A COMMON TROUBLE ALARM WILL ANNUNCIATE IN THE MAIN CONTROL ROOM.
 - 4. NUMBERS IN PARENTHESES ARE A.E. IDENTIFICATION NUMBERS.
 - 5. FOR EQUIPMENT LABELED NNDI & NNDI SEE 1911097. FOR EQUIPMENT LABELED NNDI & NNDI SEE 1911098 & 1911099.

COLOR LEGEND
CLASS 3 - GREEN
NON CLASS (-) - BLACK

45 ALL ISI BOUNDARY INFORMATION INCORPORATED
REV. 2000

NO.	DATE	DESCRIPTION
1	01-01-00	ISSUED FOR CONSTRUCTION
2	01-01-00	ISSUED FOR CONSTRUCTION
3	01-01-00	ISSUED FOR CONSTRUCTION

THIS IS A COMPUTER GENERATED DRAWING. DO NOT RE-USE IT MANUALLY.

AmerGen

SPENT FUEL POOL COOLING FLOW DIAGRAM

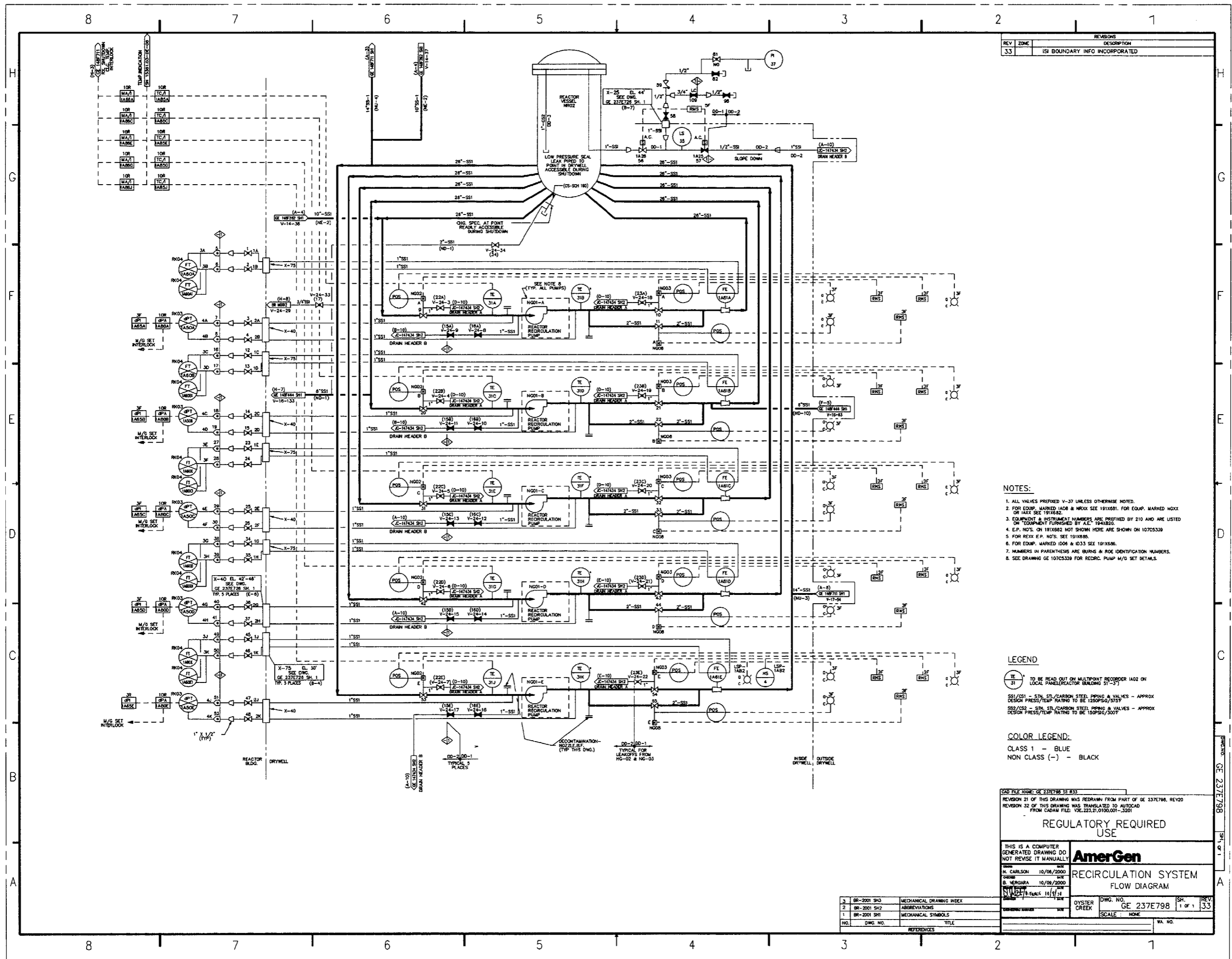
REV. 2000

SCALE: 1" = 10'

PLM #

NO.	DATE	DESCRIPTION
1	01-01-00	ISSUED FOR CONSTRUCTION
2	01-01-00	ISSUED FOR CONSTRUCTION
3	01-01-00	ISSUED FOR CONSTRUCTION

PROJECT: GE 237E756
SHEET: 1
REV: 45



REVISIONS		DESCRIPTION
REV	ZONE	
33		ISI BOUNDARY INFO INCORPORATED

- NOTES:
1. ALL VALVES PREFIXED V-37 UNLESS OTHERWISE NOTED.
 2. FOR EQUIP. MARKED 1A08 & 1A09 SEE 191X581. FOR EQUIP. MARKED 1A0X ON FACE SEE 191X582.
 3. EQUIPMENT & INSTRUMENT NUMBERS ARE PREFIXED BY 210 AND ARE LISTED ON "EQUIPMENT FURNISHED BY A.I." 191A820.
 4. E.P. NO'S. ON 191X582 NOT SHOWN HERE ARE SHOWN ON 107C5339.
 5. FOR REXY E.P. NO'S. SEE 191X585.
 6. FOR EQUIP. MARKED 1D06 & 1D33 SEE 191X586.
 7. NUMBERS IN PARENTHESES ARE BURNS & ROE IDENTIFICATION NUMBERS.
 8. SEE DRAWING GE 107C5339 FOR RECYC. PUMP M/G SET DETAILS.

LEGEND

TE 31 TO BE READ OUT ON MULTIPONT RECORDER 1A02 ON LOCAL PANEL (REACTOR BUILDING 51-37)

SS1/SS2 - 316 SS/CARBON STEEL PIPING & VALVES - APPROX DESIGN PRESS/TEMP RATING TO BE 1200PSI/575°F

SS3/SS4 - 316 SS/CARBON STEEL PIPING & VALVES - APPROX DESIGN PRESS/TEMP RATING TO BE 180PSI/300°F

COLOR LEGEND:

CLASS 1 - BLUE

NON CLASS (-) - BLACK

CAD FILE NAME: GE 237E798 SH #33

REVISION 21 OF THIS DRAWING WAS REDRAWN FROM PART OF GE 237E798, REV20

REVISION 32 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADWIN FILE: V02237E798.DWG

REGULATORY REQUIRED USE

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

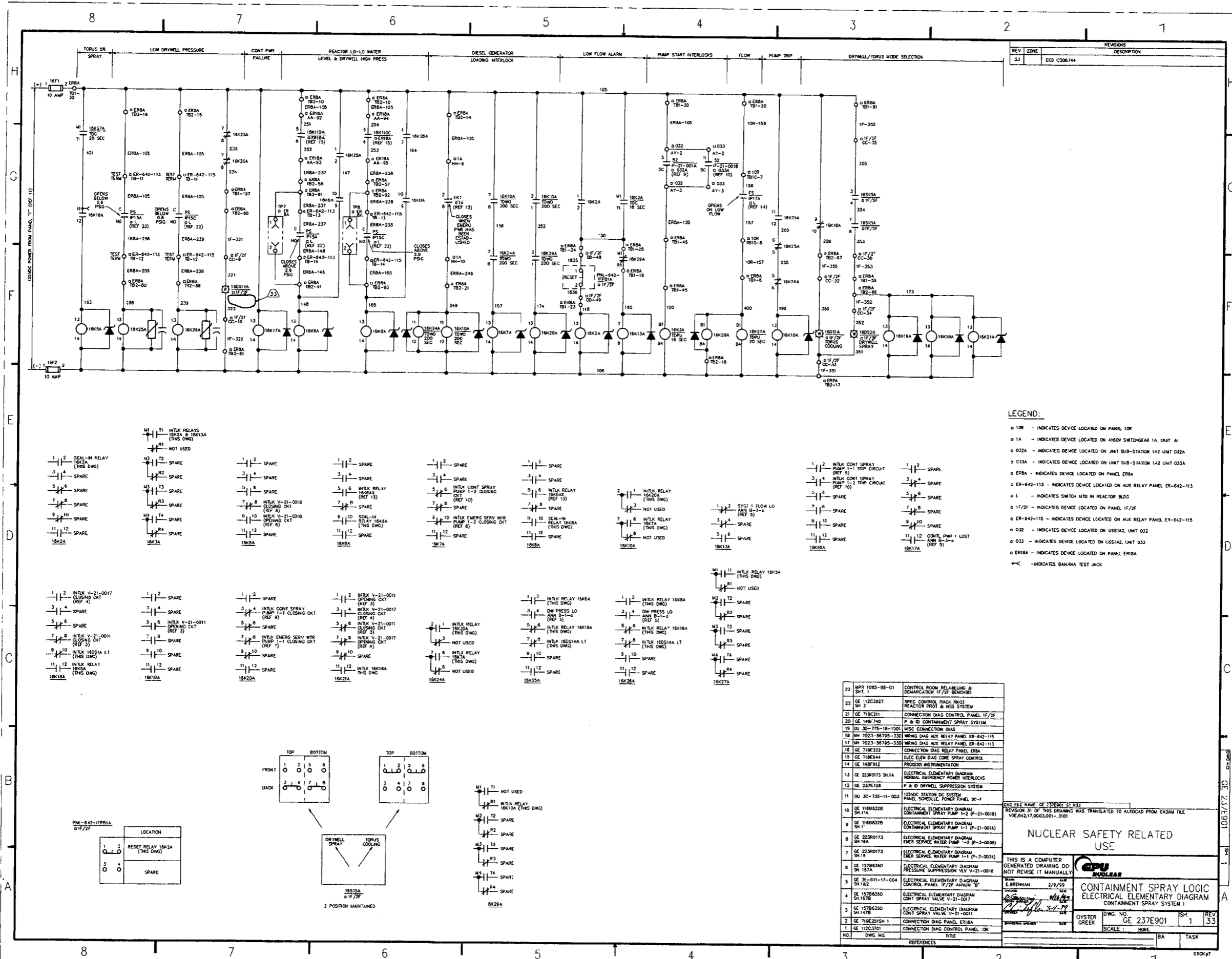
AmerGen

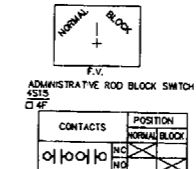
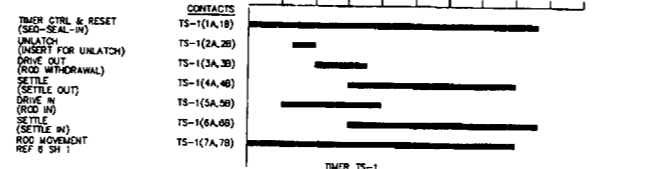
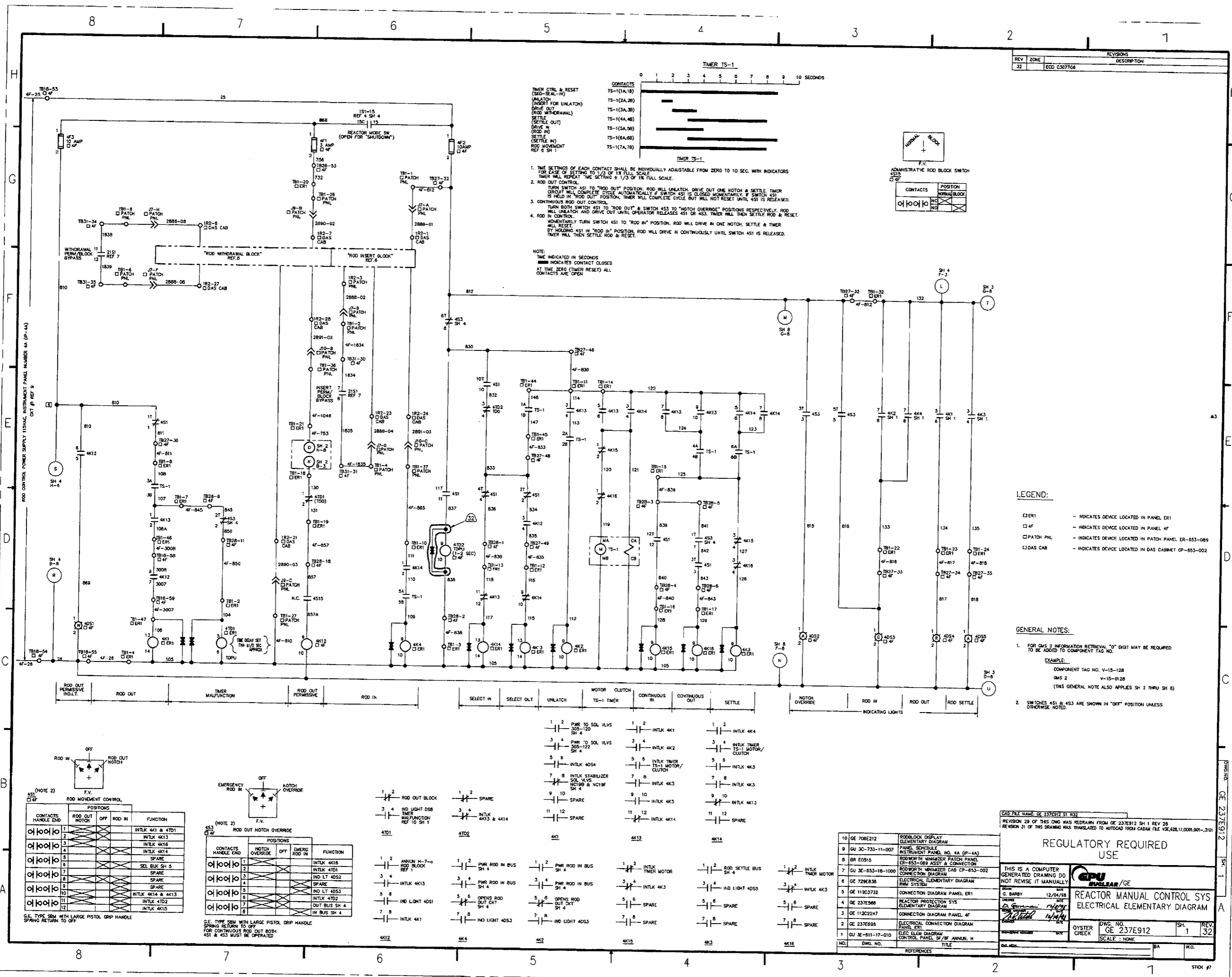
REACTOR VESSEL RECIRCULATION SYSTEM FLOW DIAGRAM

DATE: 10/08/2000
DRAWN BY: H. CARLSON
CHECKED BY: B. VERGARA
DATE: 10/09/2000

DWG. NO. GE 237E798 SH. 1 OF 1
SCALE: NONE

NO.	DWG. NO.	TITLE	REFERENCES
3	BR-2001 SH3	MECHANICAL DRAWING INDEX	
2	BR-2001 SH2	ABBREVIATIONS	
1	BR-2001 SH1	MECHANICAL SYMBOLS	





- LEGEND:**
- ER1 - INDICATES DEVICE LOCATED IN PANEL ER1
 - 4F - INDICATES DEVICE LOCATED IN PANEL 4F
 - PATCH PNL - INDICATES DEVICE LOCATED IN PATCH PANEL ER-653-009
 - DAS CAB - INDICATES DEVICE LOCATED IN DAS CABINET CP-653-002

- GENERAL NOTES:**
- FOR GMS 2 INFORMATION RETRIEVAL "0" DIGIT MAY BE REQUIRED TO BE ADDED TO COMPONENT TAG NO.
EXAMPLE:
COMPONENT TAG NO. V-15-128
GMS 2
(THIS GENERAL NOTE ALSO APPLIES SH 2 THRU SH 6)
 - SWITCHES 451 & 453 ARE SHOWN IN "OFF" POSITION UNLESS OTHERWISE NOTED.

(NOTE 2)
451
4F

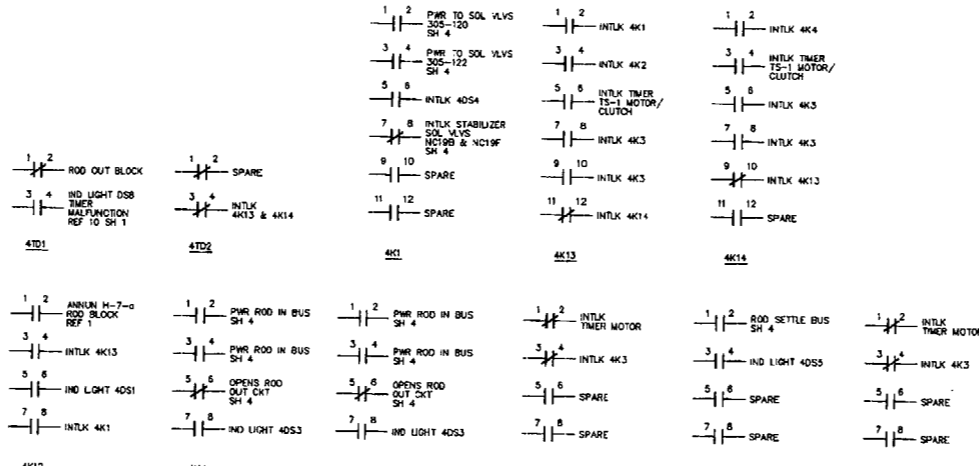
CONTACTS	ROD OUT	OFF	ROD IN	FUNCTION
INTLK 4K13				INTLK 4K1 & 4T01
INTLK 4K16				INTLK 4K16
INTLK 4K14				INTLK 4K14
SPARE				SEL BLK SH 5
SPARE				SPARE
SPARE				SPARE
INTLK 4K14 & 4K13				INTLK 4K14 & 4K13
INTLK 4T02				INTLK 4T02
INTLK 4K15				INTLK 4K15

G.E. TYPE SSM WITH LARGE PISTOL GRIP HANDLE
SPRING RETURN TO OFF

(NOTE 2)
453
4F

CONTACTS	NOTCH	OFF	EMERG	FUNCTION
INTLK 4K16				INTLK 4K16
INTLK 4T01				INTLK 4T01
IND LT 4D52				SPARE
SPARE				SPARE
IND LT 4D53				INTLK 4T02
OUT BUS SH 4				INTLK 4T02
IN BUS SH 4				IN BUS SH 4

G.E. TYPE SSM WITH LARGE PISTOL GRIP HANDLE
SPRING RETURN TO OFF
FOR CONTINUOUS ROD OUT BOTH
451 & 453 MUST BE OPERATED



NO.	DESCRIPTION	DATE
10	GE 706E212	12/04/98
9	GU 30-733-11-007	12/04/98
8	BR E0515	12/04/98
7	GU 3E-653-18-1000	12/04/98
6	GE 729E838	12/04/98
5	GE 112C3732	12/04/98
4	GE 237E968	12/04/98
3	GE 112C2247	12/04/98
2	GE 237E968	12/04/98
1	GU 3E-611-17-010	12/04/98

REGULATORY REQUIRED USE

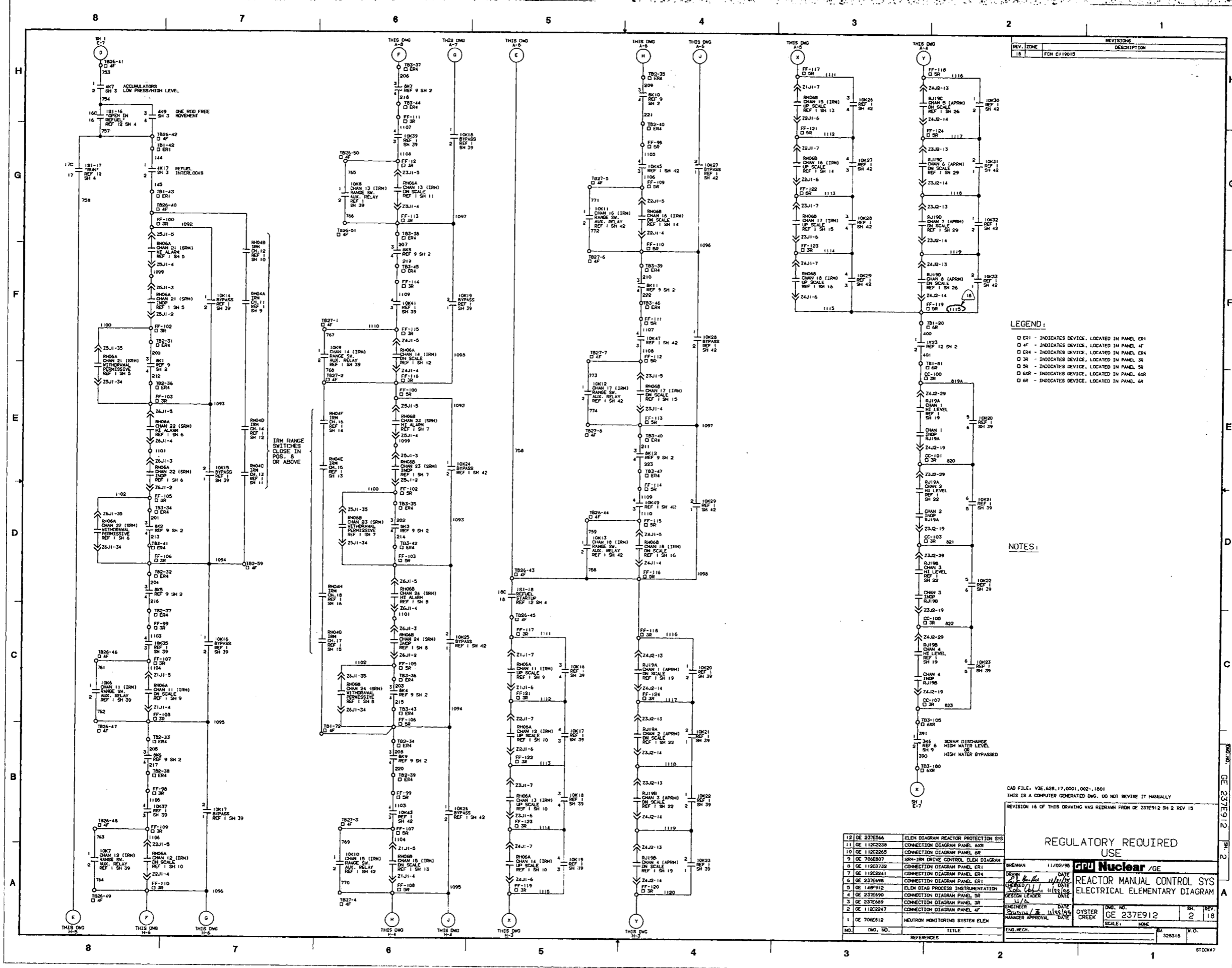
THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

DATE: 12/04/98
BY: G. BARBY
CHECKED: [Signature]
APPROVED: [Signature]

REACTOR MANUAL CONTROL SYS
ELECTRICAL ELEMENTARY DIAGRAM

DWG. NO. GE 237E912 SH. 1
SCALE: 1"=1'-0"

REV. 32



LEGEND:

- ER - INDICATES DEVICE, LOCATED IN PANEL ER
- 4F - INDICATES DEVICE, LOCATED IN PANEL 4F
- ER4 - INDICATES DEVICE, LOCATED IN PANEL ER4
- SR - INDICATES DEVICE, LOCATED IN PANEL SR
- SR4 - INDICATES DEVICE, LOCATED IN PANEL SR4
- SR6 - INDICATES DEVICE, LOCATED IN PANEL SR6
- SR8 - INDICATES DEVICE, LOCATED IN PANEL SR8

NOTES:

CAD FILE: VSE408.17.0001.002-1001
THIS IS A COMPUTER GENERATED DWG. DO NOT REVISE IT MANUALLY
REVISION 16 OF THIS DRAWING WAS REDRAWN FROM GE 237E912 SH 2 REV 10

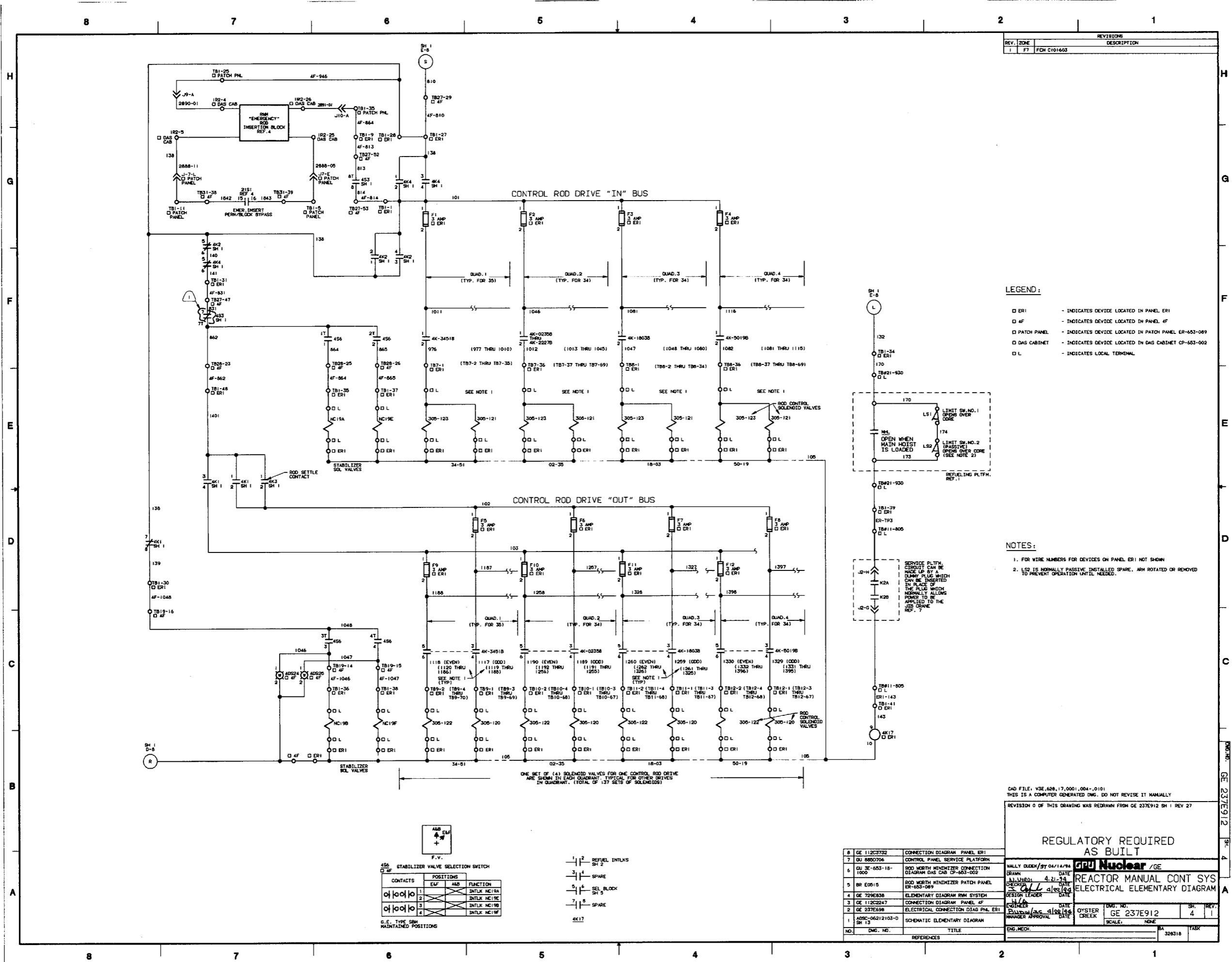
REGULATORY REQUIRED
USE

GE Nuclear / GE
REACTOR MANUAL CONTROL SYS
ELECTRICAL ELEMENTARY DIAGRAM

NO.	DWG. NO.	TITLE
1	237E912	REACTOR MANUAL CONTROL SYS ELECTRICAL ELEMENTARY DIAGRAM
2	237E912	REACTOR MANUAL CONTROL SYS ELECTRICAL ELEMENTARY DIAGRAM
3	237E912	REACTOR MANUAL CONTROL SYS ELECTRICAL ELEMENTARY DIAGRAM
4	237E912	REACTOR MANUAL CONTROL SYS ELECTRICAL ELEMENTARY DIAGRAM
5	237E912	REACTOR MANUAL CONTROL SYS ELECTRICAL ELEMENTARY DIAGRAM
6	237E912	REACTOR MANUAL CONTROL SYS ELECTRICAL ELEMENTARY DIAGRAM
7	237E912	REACTOR MANUAL CONTROL SYS ELECTRICAL ELEMENTARY DIAGRAM
8	237E912	REACTOR MANUAL CONTROL SYS ELECTRICAL ELEMENTARY DIAGRAM

ENGINEER	DATE	SCALE	BY	DATE
DESIGNER	DATE	SCALE	BY	DATE
CHECKER	DATE	SCALE	BY	DATE
APPROVER	DATE	SCALE	BY	DATE

STOCK#



REV. ZONE		REVISIONS	
REV.	ZONE	DESCRIPTION	
1	F7	FOR C101603	

- LEGEND:
- ER1 - INDICATES DEVICE LOCATED IN PANEL ER1
 - 4F - INDICATES DEVICE LOCATED IN PANEL 4F
 - PATCH PANEL - INDICATES DEVICE LOCATED IN PATCH PANEL ER-653-089
 - DAS CABINET - INDICATES DEVICE LOCATED IN DAS CABINET CP-653-002
 - L - INDICATES LOCAL TERMINAL

- NOTES:
1. FOR WIRE NUMBERS FOR DEVICES ON PANEL ER1 NOT SHOWN
 2. LS2 IS NORMALLY PASSIVE. INSTALLED SPARE. ARM ROTATED OR REMOVED TO PREVENT OPERATION UNTIL NEEDED.

CAD FILE: V3E.628.17.0001.004-.0101
THIS IS A COMPUTER GENERATED DWG. DO NOT REVISE IT MANUALLY
REVISION 0 OF THIS DRAWING WAS REDRAWN FROM GE 237E912 SH 1 REV 27

REGULATORY REQUIRED
AS BUILT

GPU Nuclear / GE

REACTOR MANUAL CONT SYS
ELECTRICAL ELEMENTARY DIAGRAM

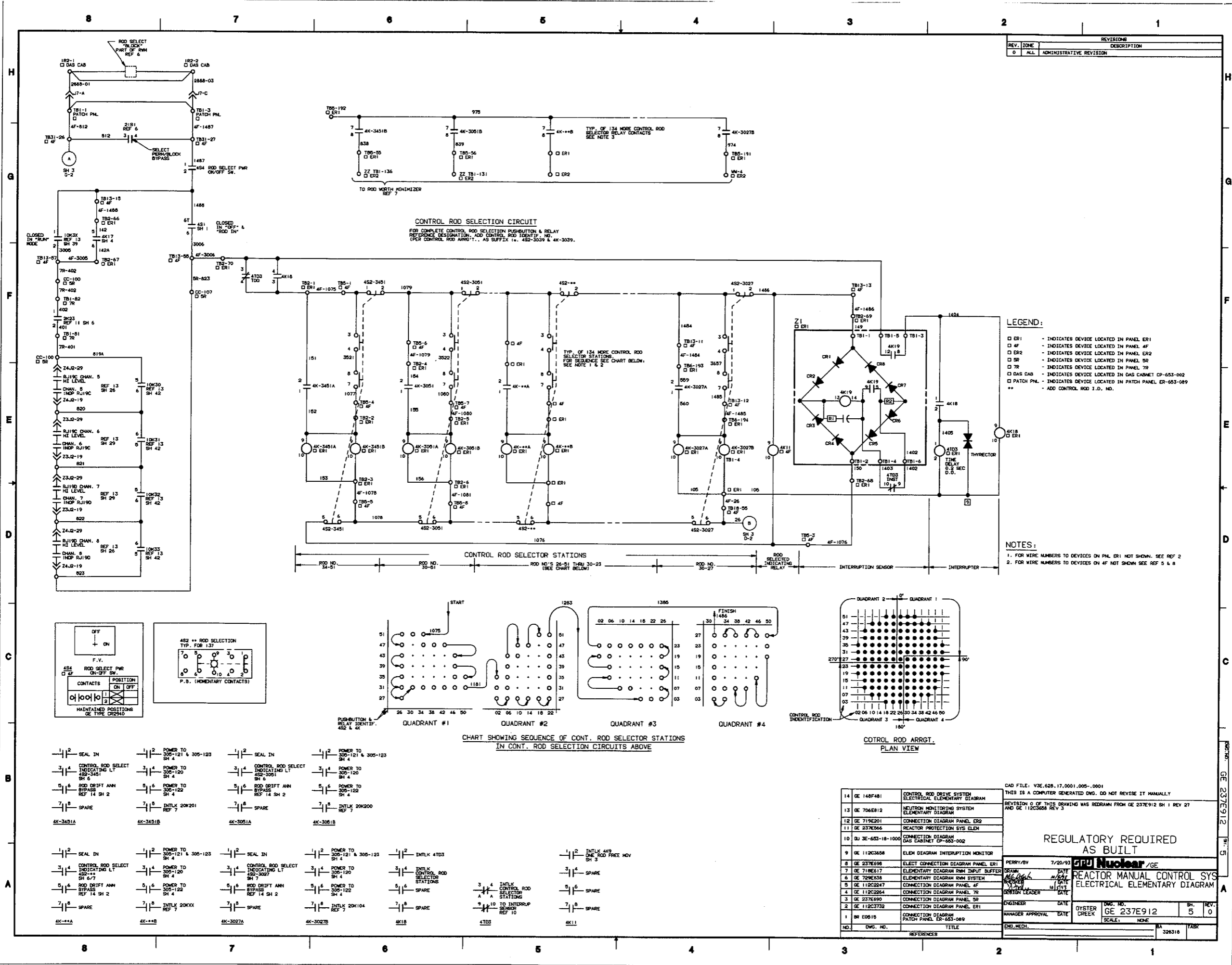
ENGINEER DATE
OYSTER CREEK
SCALE: NONE

NO.	DWG. NO.	TITLE
8	GE 112C3732	CONNECTION DIAGRAM PANEL ER1
7	GE 8800704	CONTROL PANEL SERVICE PLATFORM
6	CU 3E-653-18-1000	ROD NORTH MINIMIZER CONNECTION DIAGRAM DAS CAB CP-653-002
5	BR E0515	ROD NORTH MINIMIZER PATCH PANEL
4	GE 729E838	ELMENTARY DIAGRAM RM SYSTEM
3	GE 112C2247	CONNECTION DIAGRAM PANEL 4F
2	GE 237E698	ELECTRICAL CONNECTION DIAG PNL ER1
1	ADCS-06212103-0 SH 13	SCHEMATIC ELEMENTARY DIAGRAM

CONTACTS		POSITIONS		FUNCTION	
1	10110	ELF	ASB	INTLK NC19A	
2	10110	ELF	ASB	INTLK NC19E	
3	10110	ELF	ASB	INTLK NC19B	
4	10110	ELF	ASB	INTLK NC19F	

G.E. TYPE SW
MAINTAINED POSITIONS

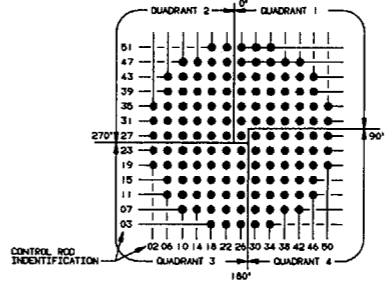
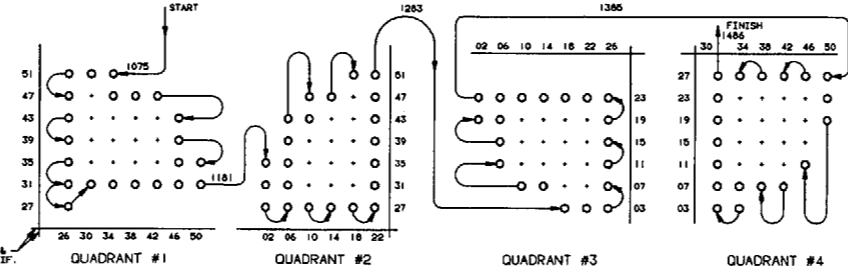
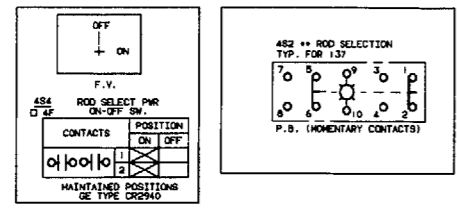
- 1 2 REFUEL INTLK SH 2
- 3 SPARE
- 5 6 SEL BLOCK SH 5
- 7 8 SPARE
- 4K17



REVISIONS		DESCRIPTION
REV.	ZONE	
0	ALL	ADMINISTRATIVE REVISION

- LEGEND:
- ER1 - INDICATES DEVICE LOCATED IN PANEL ER1
 - 4F - INDICATES DEVICE LOCATED IN PANEL 4F
 - ER2 - INDICATES DEVICE LOCATED IN PANEL ER2
 - SR - INDICATES DEVICE LOCATED IN PANEL SR
 - 7R - INDICATES DEVICE LOCATED IN PANEL 7R
 - DAS CAB - INDICATES DEVICE LOCATED IN DAS CABINET CP-653-002
 - PATCH PNL - INDICATES DEVICE LOCATED IN PATCH PANEL ER-653-009
 - ** - ADD CONTROL ROD I.D. NO.

- NOTES:
1. FOR WIRE NUMBERS TO DEVICES ON PNL ER1 NOT SHOWN, SEE REF 2
 2. FOR WIRE NUMBERS TO DEVICES ON 4F NOT SHOWN SEE REF 5 & 8



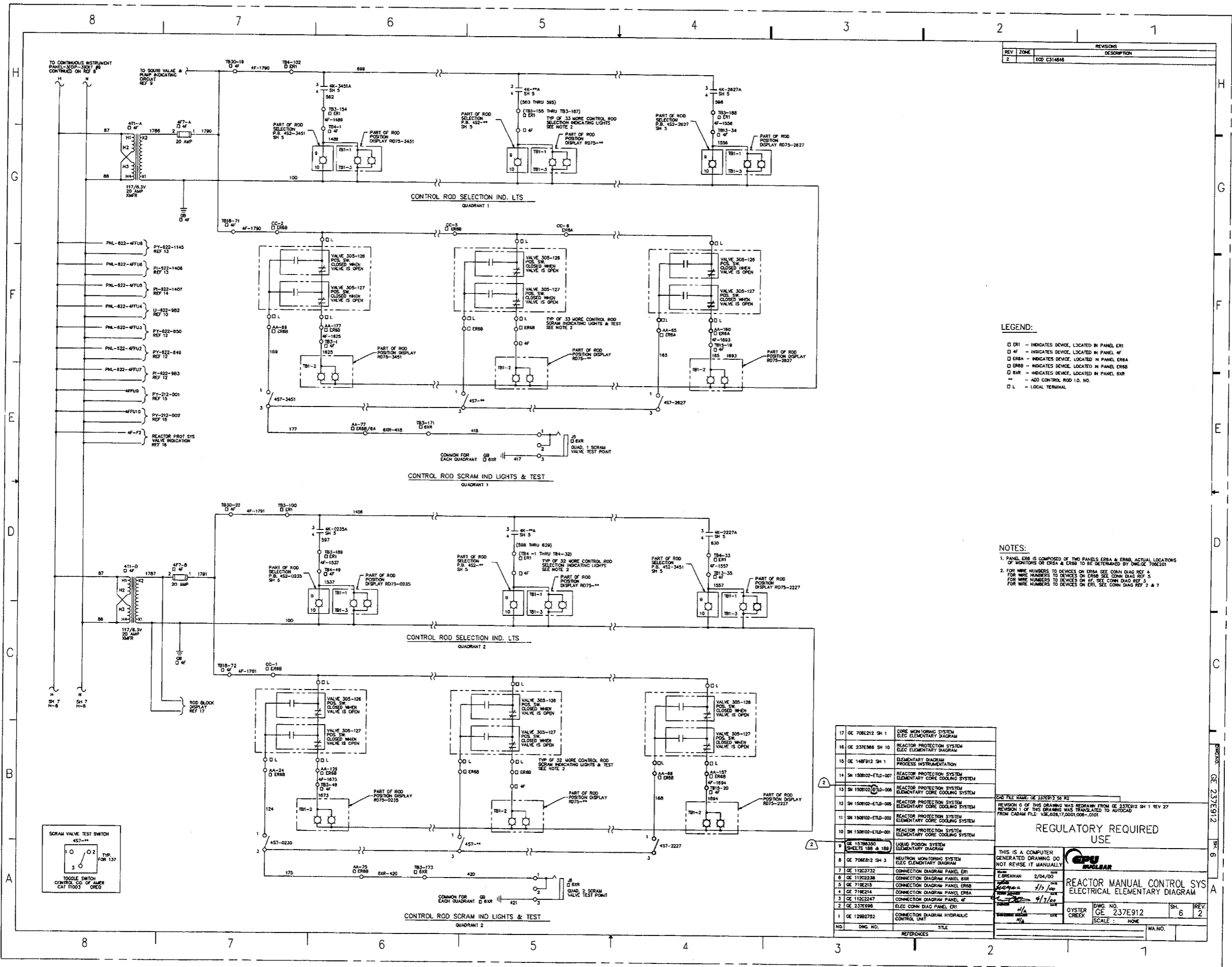
- CHART SHOWING SEQUENCE OF CONT. ROD SELECTOR STATIONS IN CONT. ROD SELECTION CIRCUITS ABOVE
- | | | | |
|--|-------------------------------------|--|-------------------------------------|
| 1-2 SEAL IN | 1-2 POWER TO 305-121 & 305-123 SH 4 | 1-2 SEAL IN | 1-2 POWER TO 305-121 & 305-123 SH 4 |
| 3-4 CONTROL ROD SELECT INDICATING LT 452-3451 SH 6 | 3-4 POWER TO 305-120 SH 4 | 3-4 CONTROL ROD SELECT INDICATING LT 452-3051 SH 6 | 3-4 POWER TO 305-120 SH 4 |
| 5-6 ROD DRIFT ANN BYPASS REF 14 SH 2 | 5-6 POWER TO 305-122 SH 4 | 5-6 ROD DRIFT ANN BYPASS REF 14 SH 2 | 5-6 POWER TO 305-122 SH 4 |
| 7-8 SPARE | 7-8 INTLK 20K201 REF 7 | 7-8 SPARE | 7-8 INTLK 20K200 REF 7 |
- 4K-3451A 4K-3451B 4K-3051A 4K-3051B
-
- | | | | | |
|--|-------------------------------------|--|-------------------------------------|---|
| 1-2 SEAL IN | 1-2 POWER TO 305-121 & 305-123 SH 4 | 1-2 SEAL IN | 1-2 POWER TO 305-121 & 305-123 SH 4 | 1-2 INTLK 4T03 |
| 3-4 CONTROL ROD SELECT INDICATING LT 452-3451 SH 6 | 3-4 POWER TO 305-120 SH 4 | 3-4 CONTROL ROD SELECT INDICATING LT 452-3051 SH 6 | 3-4 POWER TO 305-120 SH 4 | 3-4 INTLK CONTROL ROD SELECTOR STATIONS |
| 5-6 ROD DRIFT ANN BYPASS REF 14 SH 2 | 5-6 POWER TO 305-122 SH 4 | 5-6 ROD DRIFT ANN BYPASS REF 14 SH 2 | 5-6 POWER TO 305-122 SH 4 | 5-6 SPARE |
| 7-8 SPARE | 7-8 INTLK 20KXX REF 7 | 7-8 SPARE | 7-8 INTLK 20K104 | 7-8 SPARE |
- 4K-3451A 4K-3451B 4K-3051A 4K-3051B 4K18 4T03 4K11

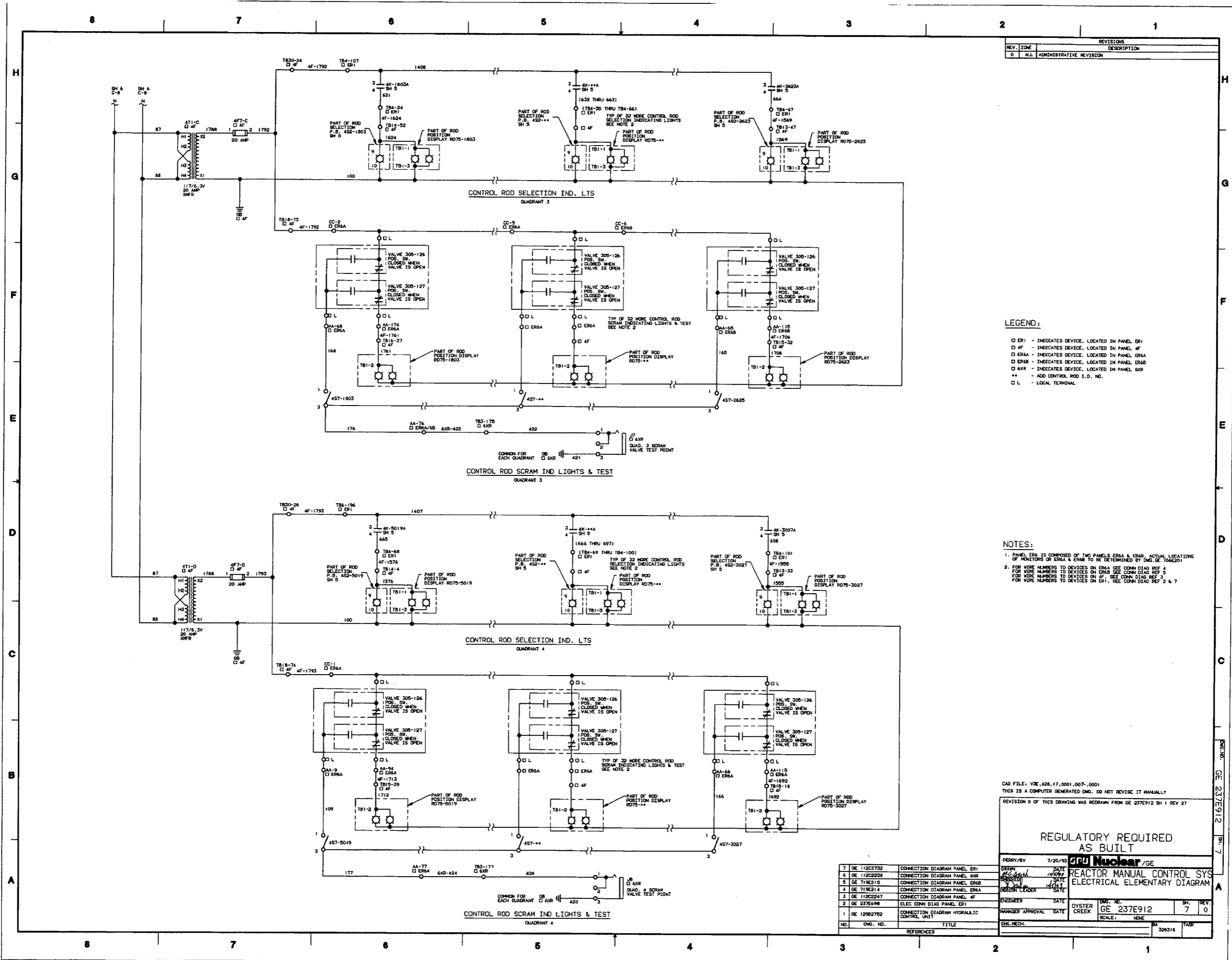
14	GE 148F481	CONTROL ROD DRIVE SYSTEM ELECTRICAL ELEMENTARY DIAGRAM
13	GE 704E812	NEUTRON MONITORING SYSTEM ELEMENTARY DIAGRAM
12	GE 719E201	CONNECTION DIAGRAM PANEL ER2
11	GE 237E566	REACTOR PROTECTION SYS ELEH
10	BU 3E-653-18-1000	CONNECTION DIAGRAM DAS CABINET CP-653-002
9	GE 112C3658	ELEM DIAGRAM INTERRUPTION MONITOR
8	GE 237E698	ELECT CONNECTION DIAGRAM PANEL ER1
7	GE 719E317	ELEMENTARY DIAGRAM RHM INPUT BUFFER
6	GE 729E638	ELEMENTARY DIAGRAM RHM SYSTEM
5	GE 112C3247	CONNECTION DIAGRAM PANEL 4F
4	GE 112C3264	CONNECTION DIAGRAM PANEL 7R
3	GE 237E690	CONNECTION DIAGRAM PANEL SR
2	GE 112C3732	CONNECTION DIAGRAM PANEL ER1
1	BU E0615	CONNECTION DIAGRAM PATCH PANEL ER-653-009

NO.	DWG. NO.	TITLE
1	GE 237E912	REGULATORY REQUIRED AS BUILT REACTOR MANUAL CONTROL SYS ELECTRICAL ELEMENTARY DIAGRAM

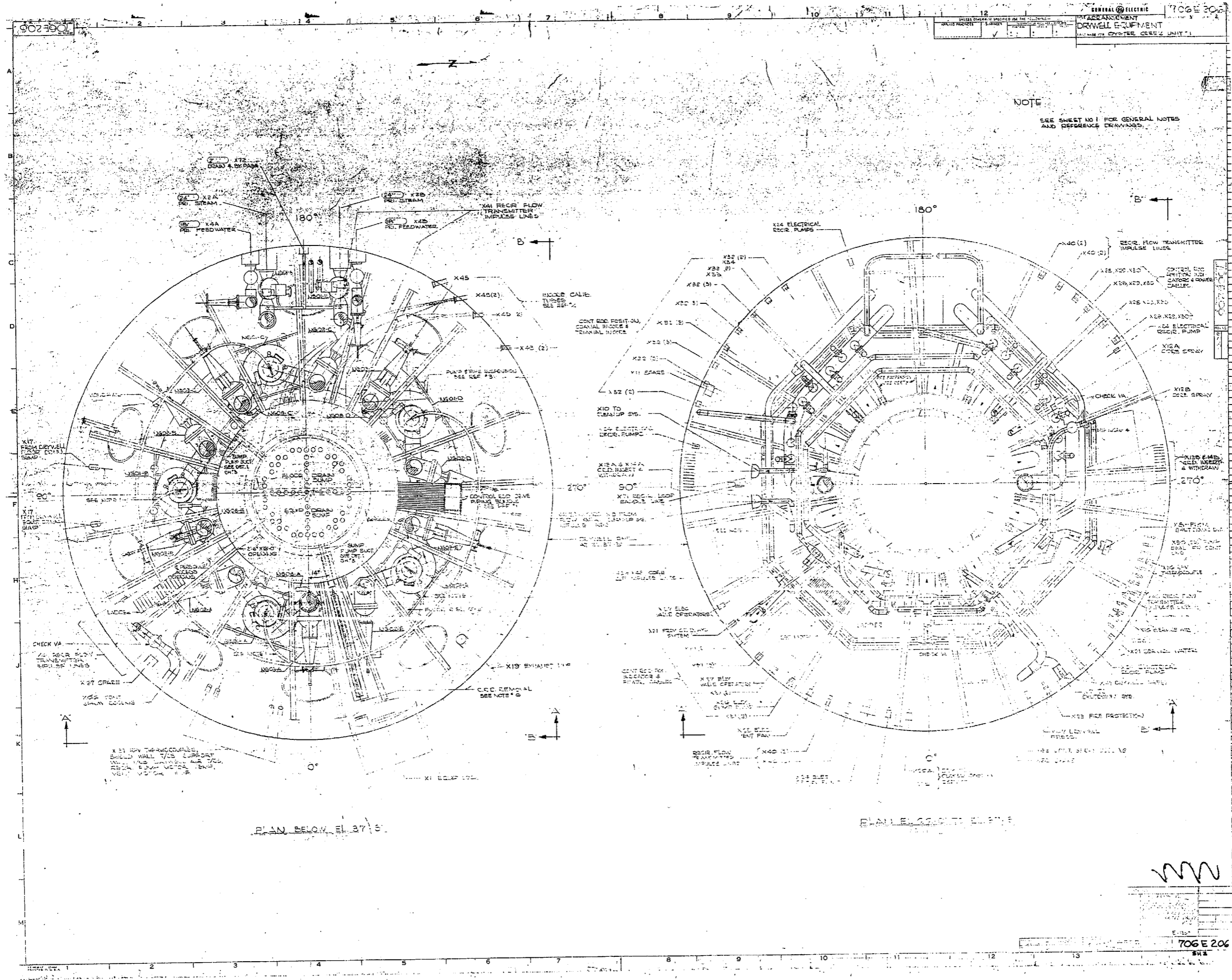
DATE	7/20/93	DATE	7/20/93
ENGINEER	PERRY/SV	ENGINEER	PERRY/SV
MANAGER APPROVAL	DATE	MANAGER APPROVAL	DATE
END. MOD.		END. MOD.	

DRG. NO.	GE 237E912	SH.	5	REV.	0
SCALE	NONE	SCALE	NONE	SCALE	NONE
326316		326316		326316	





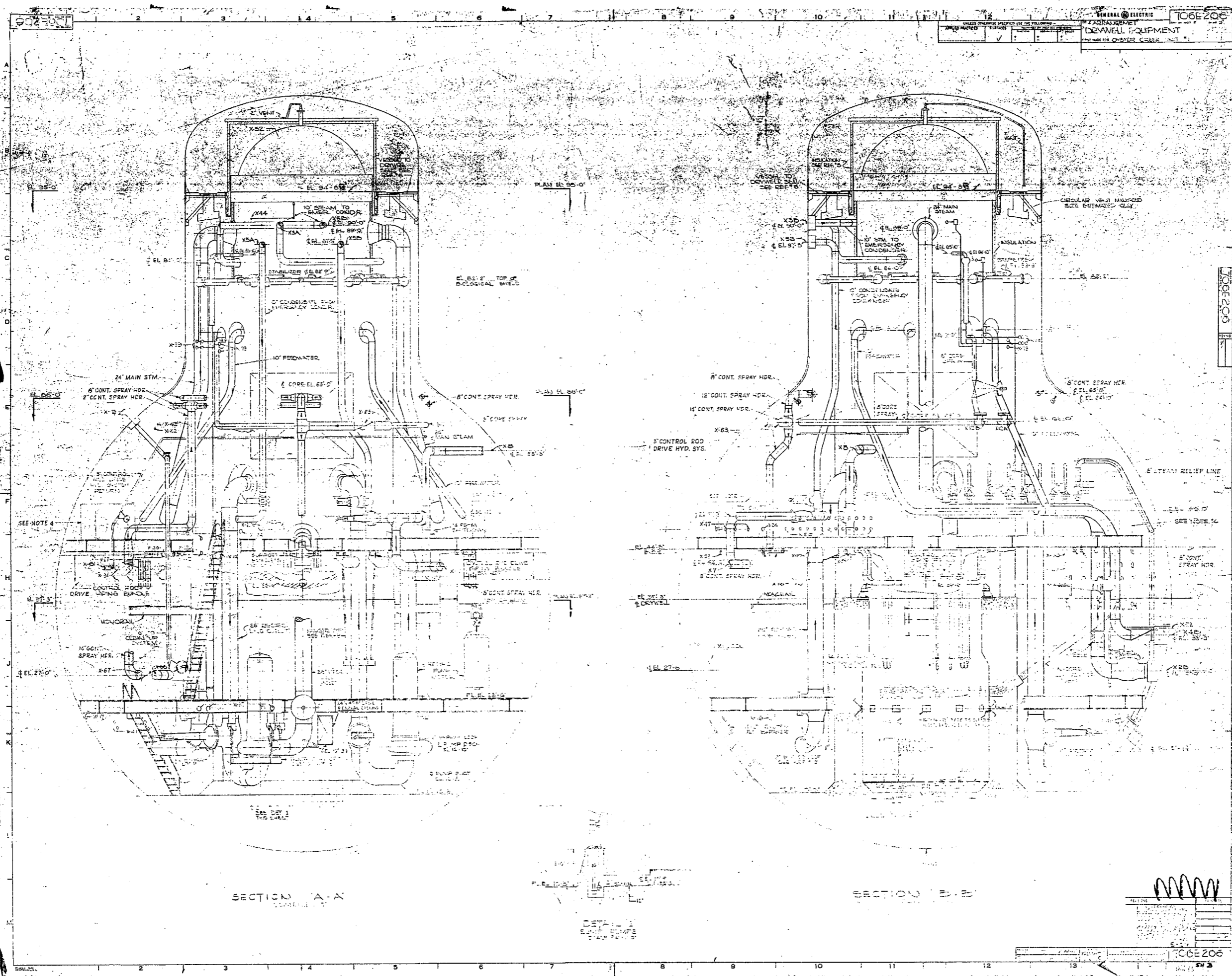
LAST FILE: 02/01/10 10:04
SCALE: 1:1000
DWG. NO. 237E912
REV. 0
PAGE: 3



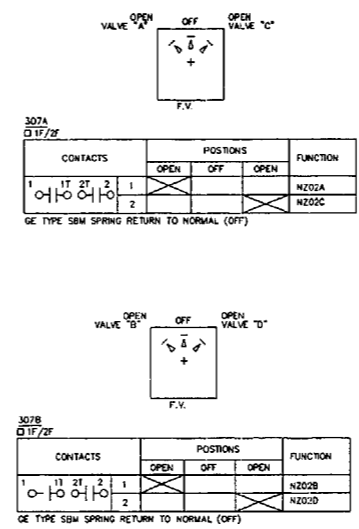
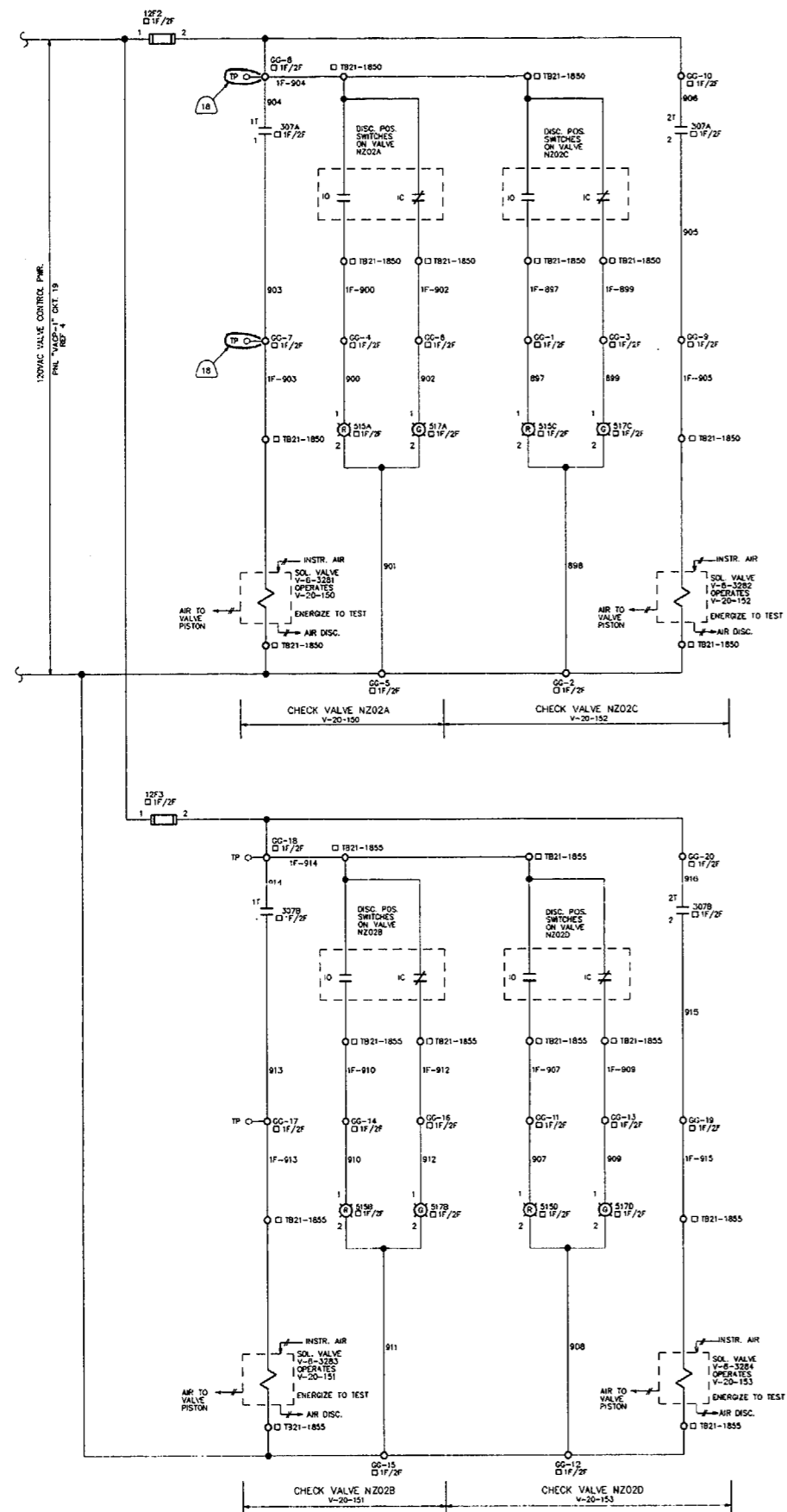
NOTE
SEE SHEET NO. 1 FOR GENERAL NOTES
AND REFERENCE DRAWINGS.

PLAN BELOW EL 37'5'

PLAN OF DRYWELL EL 37'5'

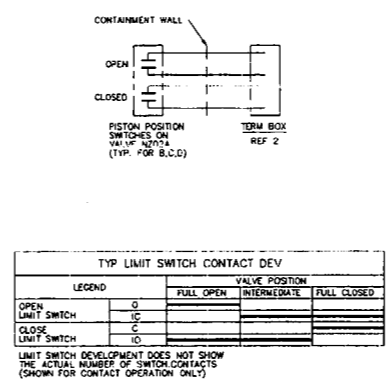


REV		ZONE		REVISIONS	
NO.	DATE	NO.	DATE	DESCRIPTION	
18		ECO	CAD2007		



- LEGEND:**
- 1F/2F - INDICATES DEVICE LOCATED IN CONTROL PANEL 1F/2F
 - TB21-1850 - INDICATES TERMINAL BOX 21-1850
 - TB21-1855 - INDICATES TERMINAL BOX 21-1855
 - POS - C VALVE LIMIT SWITCH CLOSED WHEN VALVE FULLY CLOSED
 - POS - O VALVE LIMIT SWITCH CLOSED WHEN VALVE FULLY OPEN
 - POS - IO VALVE LIMIT SWITCH CLOSED WHEN VALVE NOT FULLY OPEN
 - POS - IO VALVE LIMIT SWITCH CLOSED WHEN VALVE NOT FULLY CLOSED
 - TP ○ - INDICATES HEX HD SETSCREW TEST POINT

- NOTES:**
- GE 718E644 SH 1 OF 2 HAS BEEN REPLACED BY NU 5060E003



CAD FILE NAME: GE 718E644 SH 18

REVISION 15 OF THIS DRAWING WAS REDRAWN FROM GE 718E644 SH 2, REV 14 AND BR 3032 REV 23. (VALVES V-20-0017 AND V-20-0023 INDICATION SHOWN ON BR 3032 SH 2) REVISION 18 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADAM FILE VSE-21E17.003.002-1801

NUCLEAR SAFETY RELATED USE

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

AmerGen

CORE SPRAY SYSTEM ELECTRICAL ELEMENTARY DIAGRAM

CORE SPRAY CONTROL

DATE: 02/15/2001
BY: E. J. MCKEE
CHECKED: [Signature]
APPROVED: [Signature]

NO. 1
DWG. NO. 2
TITLE: CORE SPRAY CONTROL

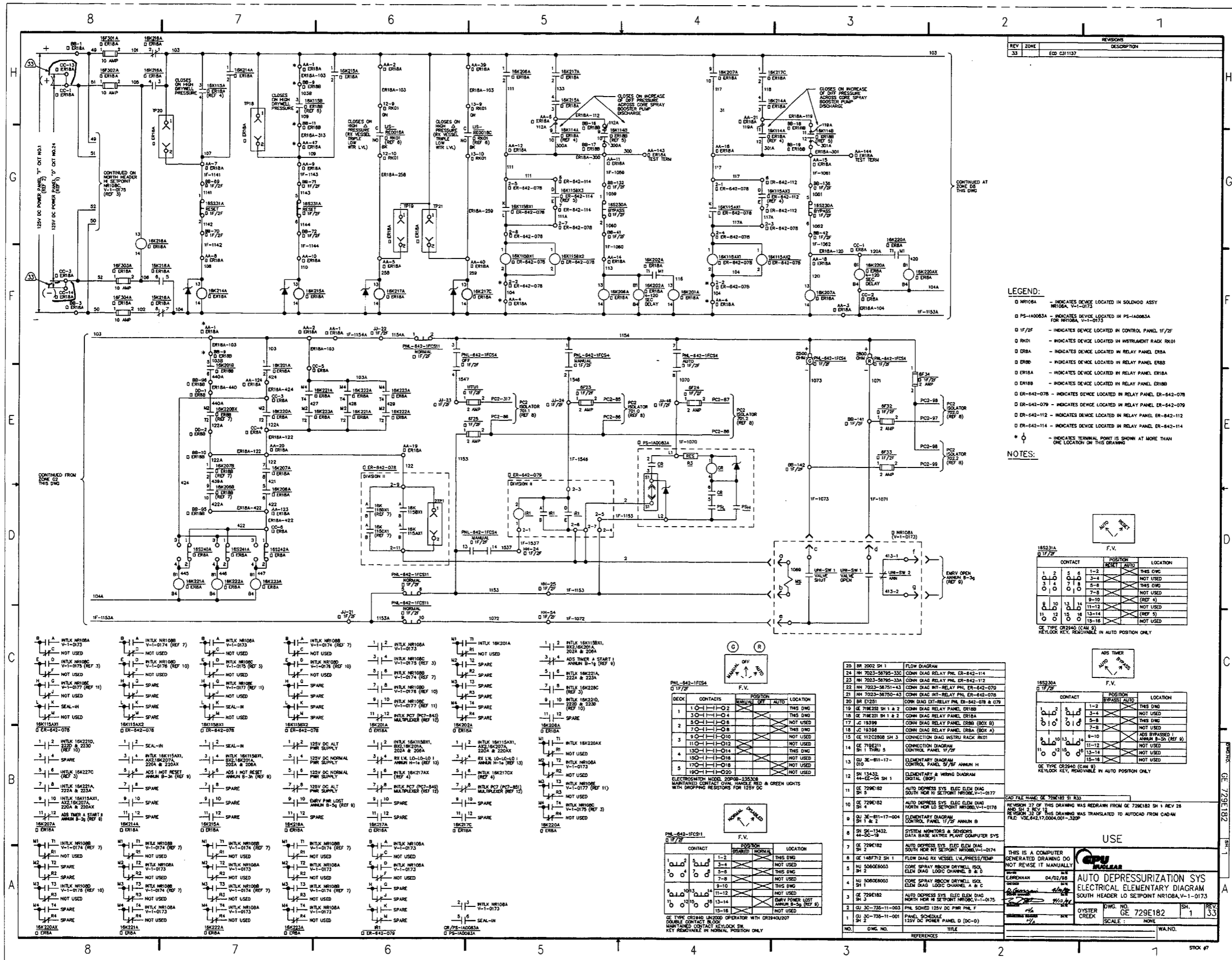
DATE: 02/15/2001
BY: E. J. MCKEE
CHECKED: [Signature]
APPROVED: [Signature]

NO. 1
DWG. NO. 2
TITLE: CORE SPRAY CONTROL

DATE: 02/15/2001
BY: E. J. MCKEE
CHECKED: [Signature]
APPROVED: [Signature]

NO. 1
DWG. NO. 2
TITLE: CORE SPRAY CONTROL

NO.	DWG. NO.	TITLE
4	OU 3C-733-11-004	PANEL SCHEDULE
3	BR 3044 SH 1	VITAL AC POWER PANEL VACP-1
2	BR 3043 SH 1	MISC. CONNECTION DIAGRAMS SH #2
1	GE 718E211 SH 2, 3, 4, 7, 11	ELEC CONNECTION DIAGRAM PANEL 1F/2F



REV	ZONE	DESCRIPTION
33		EOC C31137

- LEGEND:**
- NR108A - INDICATES DEVICE LOCATED IN SOLENOID ASSY NR108A, V-1-0173
 - PS-1A0083A - INDICATES DEVICE LOCATED IN PS-1A0083A FOR NR108A, V-1-0173
 - 1F/2F - INDICATES DEVICE LOCATED IN CONTROL PANEL 1F/2F
 - RH01 - INDICATES DEVICE LOCATED IN INSTRUMENT RACK RH01
 - ER8A - INDICATES DEVICE LOCATED IN RELAY PANEL ER8A
 - ER8B - INDICATES DEVICE LOCATED IN RELAY PANEL ER8B
 - ER18A - INDICATES DEVICE LOCATED IN RELAY PANEL ER18A
 - ER18B - INDICATES DEVICE LOCATED IN RELAY PANEL ER18B
 - ER-642-078 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-078
 - ER-642-079 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-079
 - ER-642-112 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-112
 - ER-642-114 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-114
 - * - INDICATES TERMINAL POINT IS SHOWN AT MORE THAN ONE LOCATION ON THIS DRAWING

NOTES:

1. KEYLOCK KEY, REMOVABLE IN AUTO POSITION ONLY

CONTACT	POSITION	LOCATION
1-2	THIS DNG	
3-4	NOT USED	
5-6	THIS DNG	
7-8	NOT USED	
9-10	NOT USED	
11-12	NOT USED	
13-14	NOT USED	
15-16	NOT USED	

CONTACT	POSITION	LOCATION
1-2	THIS DNG	
3-4	NOT USED	
5-6	THIS DNG	
7-8	NOT USED	
9-10	NOT USED	
11-12	NOT USED	
13-14	NOT USED	
15-16	NOT USED	

USE

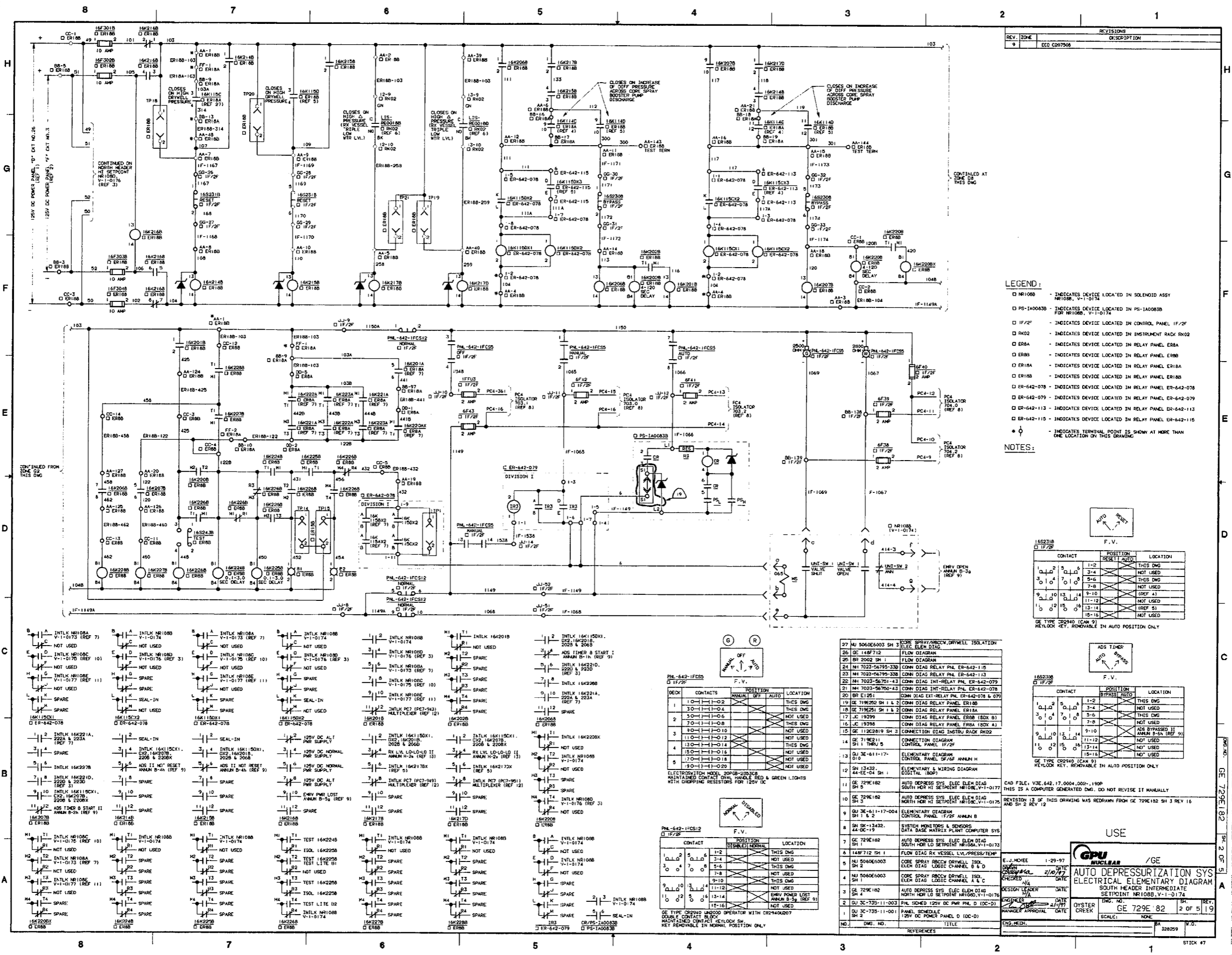
THIS IS A COMPUTER GENERATED DRAWING DO NOT REUSE IT MANUALLY

AUTO DEPRESSURIZATION SYS
ELECTRICAL ELEMENTARY DIAGRAM
SOUTH HEAD LO SETPOINT NR108A, V-1-0173

DATE: 04/02/88
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

OWS: NO. 729E182
SCALE: NONE
REV. 33

NO.	ZONE	DESCRIPTION
1	1	1. 1-2
2	2	2. 1-2
3	3	3. 1-2
4	4	4. 1-2
5	5	5. 1-2
6	6	6. 1-2
7	7	7. 1-2
8	8	8. 1-2
9	9	9. 1-2
10	10	10. 1-2
11	11	11. 1-2
12	12	12. 1-2
13	13	13. 1-2
14	14	14. 1-2
15	15	15. 1-2
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23	23	23. 1-2
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62	62	62. 1-2
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93	93	93. 1-2
94	94	94. 1-2
95	95	95. 1-2
96	96	96. 1-2
97	97	97. 1-2
98	98	98. 1-2
99	99	99. 1-2
100	100	100. 1-2



REV. ZONE		REVISIONS	
NO.	DESCRIPTION	DATE	BY
9	ECO C07050		

- LEGEND:**
- NR1088 - INDICATES DEVICE LOCATED IN SOLENOID ASSY NR1088, V-1-0174
 - PS-1A00838 - INDICATES DEVICE LOCATED IN PS-1A00838 FOR NR1088, V-1-0174
 - IF/2F - INDICATES DEVICE LOCATED IN CONTROL PANEL IF/2F
 - RK02 - INDICATES DEVICE LOCATED IN INSTRUMENT RACK RK02
 - ER8A - INDICATES DEVICE LOCATED IN RELAY PANEL ER8A
 - ER8B - INDICATES DEVICE LOCATED IN RELAY PANEL ER8B
 - ER18A - INDICATES DEVICE LOCATED IN RELAY PANEL ER18A
 - ER18B - INDICATES DEVICE LOCATED IN RELAY PANEL ER18B
 - ER-642-078 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-078
 - ER-642-079 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-079
 - ER-642-113 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-113
 - ER-642-115 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-115
- NOTES:**
- INDICATES TERMINAL POINT IS SHOWN AT MORE THAN ONE LOCATION ON THIS DRAWING

16K2208
IF/2F

CONTACT		POSITION		LOCATION	
1-2	3-4	RESET	AUTO	THIS DWG	NOT USED
1-2	3-4	5-6	7-8	9-10	11-12
13-14	15-16	17-18	19-20	21-22	23-24

GE TYPE CR2940 (CAN 9)
KEYLOCK KEY, REMOVABLE IN AUTO POSITION ONLY

16K2208
IF/2F

CONTACT		POSITION		LOCATION	
1-2	3-4	BYPASS	AUTO	THIS DWG	NOT USED
1-2	3-4	5-6	7-8	9-10	11-12
13-14	15-16	17-18	19-20	21-22	23-24

GE TYPE CR2940 (CAN 9)
KEYLOCK KEY, REMOVABLE IN AUTO POSITION ONLY

CAD FILE: V-642-17-0004-000-11909
THIS IS A COMPUTER GENERATED DWG. DO NOT REVISE IT MANUALLY
REVISION 13 OF THIS DRAWING WAS REDRAWN FROM GE 729E182 SH 3 REV 16 AND SH 2 REV 12

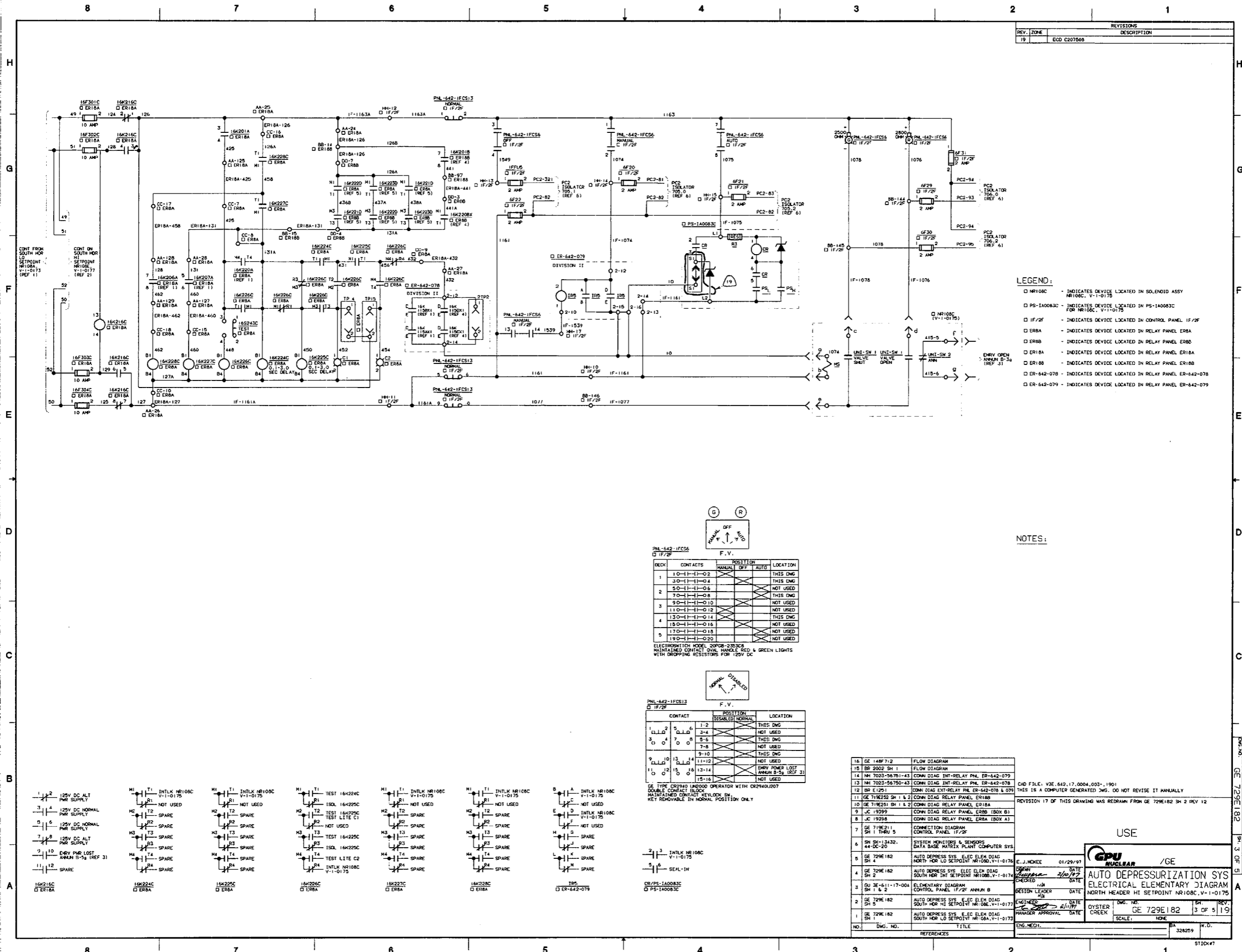
USE

GPU /GE
AUTO DEPRESSURIZATION SYS
ELECTRICAL ELEMENTARY DIAGRAM
SOUTH HEADER INTERMEDIATE
SETPOINT NR1088, V-1-0174

DESIGNER: E. J. MOORE
CHECKED: 3/10/77
DATE: 3/10/77
SCALE: NONE
REV. 19

STICK #7

DATE: 3-10-77
DRAWN BY: E. J. MOORE
CHECKED BY: 3/10/77
DATE: 3/10/77
SCALE: NONE
REV. 19



REVISIONS	
REV.	DESCRIPTION
19	ECD C207808

- LEGEND:**
- NR108C - INDICATES DEVICE LOCATED IN SOLENOID ASSY NR108C, V-1-0175
 - PS-1A0083C - INDICATES DEVICE LOCATED IN PS-1A0083C FOR NR108C, V-1-0175
 - IF/2F - INDICATES DEVICE LOCATED IN CONTROL PANEL IF/2F
 - ER8A - INDICATES DEVICE LOCATED IN RELAY PANEL ER8A
 - ER8B - INDICATES DEVICE LOCATED IN RELAY PANEL ER8B
 - ER18A - INDICATES DEVICE LOCATED IN RELAY PANEL ER18A
 - ER18B - INDICATES DEVICE LOCATED IN RELAY PANEL ER18B
 - ER-642-078 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-078
 - ER-642-079 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-079

NOTES:

PNL-642-1FC56
□ IF/2F

F.V.

DECK	CONTACTS	POSITION	LOCATION
1	1-0-1-1-0-2	MANUAL OFF	THIS DNG
2	3-0-1-1-0-4	NOT USED	THIS DNG
3	5-0-1-1-0-6	NOT USED	THIS DNG
4	7-0-1-1-0-8	NOT USED	THIS DNG
5	9-0-1-1-0-10	NOT USED	THIS DNG
6	11-0-1-1-0-12	NOT USED	THIS DNG
7	13-0-1-1-0-14	NOT USED	THIS DNG
8	15-0-1-1-0-16	NOT USED	THIS DNG
9	17-0-1-1-0-18	NOT USED	THIS DNG
10	19-0-1-1-0-20	NOT USED	THIS DNG

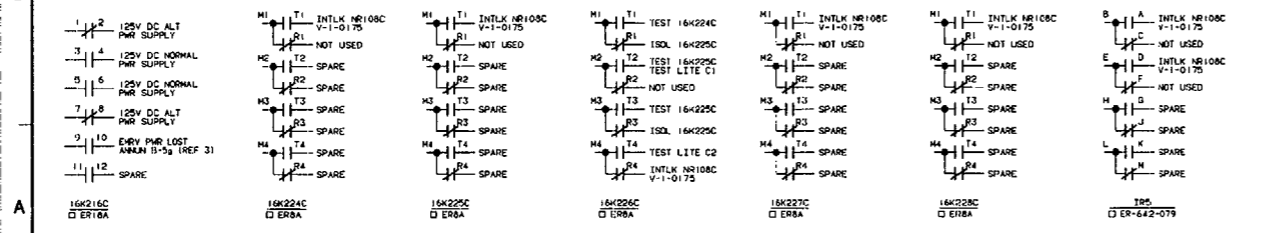
ELECTRONIC MODEL 200P-20008
MAINTAINED CONTACT OVAL HANDLE RED & GREEN LIGHTS
WITH DROPPING RESISTORS FOR 125V DC

PNL-642-1FC53
□ IF/2F

F.V.

CONTACT	POSITION	LOCATION
1-2	DISABLED NORMAL	THIS DNG
3-4	NOT USED	THIS DNG
5-6	NOT USED	THIS DNG
7-8	NOT USED	THIS DNG
9-10	NOT USED	THIS DNG
11-12	NOT USED	THIS DNG
13-14	NOT USED	THIS DNG
15-16	NOT USED	THIS DNG

GE TYPE CR240 LANCOS OPERATOR WITH CR240L207
DOUBLE CONTACT BLOCK
MAINTAINED CONTACT KEYLOCK SW
KEY REMOVABLE IN NORMAL POSITION ONLY



16	GE 148F712	FLOW DIAGRAM
17	BR 2002 SH 1	FLOW DIAGRAM
18	NH 7023-5670-43	CONN DIAG INT-RELAY PNL ER-642-078
19	NH 7023-5670-43	CONN DIAG INT-RELAY PNL ER-642-078
20	BR 12501	CONN DIAG EXT-RELAY PNL ER-642-078 & 079
21	GE 719E252 SH 1 & 2	CONN DIAG RELAY PANEL ER18A
22	GE 719E252 SH 1 & 2	CONN DIAG RELAY PANEL ER18B
23	JC 19359	CONN DIAG RELAY PANEL ER8A (BOX B)
24	JC 19358	CONN DIAG RELAY PANEL ER8B (BOX A)
25	GE 719E211 SH 1 THRU 5	CONNECTION DIAGRAM CONTROL PANEL IF/2F
26	SN SC-13432-44-DC-20	SYSTEM MONITORS & SENSORS DATA BASE MATRIX PLANT COMPUTER SYS
27	GE 729E182 SH 4	AUTO DEPRESS SYS. ELEC ELEM DIAG NORTH HOR LO SETPOINT NR108C, V-1-0175
28	GE 729E182 SH 1 & 2	AUTO DEPRESS SYS. ELEC ELEM DIAG SOUTH HOR LO SETPOINT NR108C, V-1-0175
29	GE 729E182 SH 1 & 2	AUTO DEPRESS SYS. ELEC ELEM DIAG SOUTH HOR LO SETPOINT NR108C, V-1-0175

CAD FILE: V3E.642.17.0004.003-.1901
THIS IS A COMPUTER GENERATED DNG. DO NOT REVISE IT MANUALLY
REVISION 17 OF THIS DRAWING WAS REDRAWN FROM GE 729E182 SH 2 REV 12

USE

GPU NUCLEAR /GE

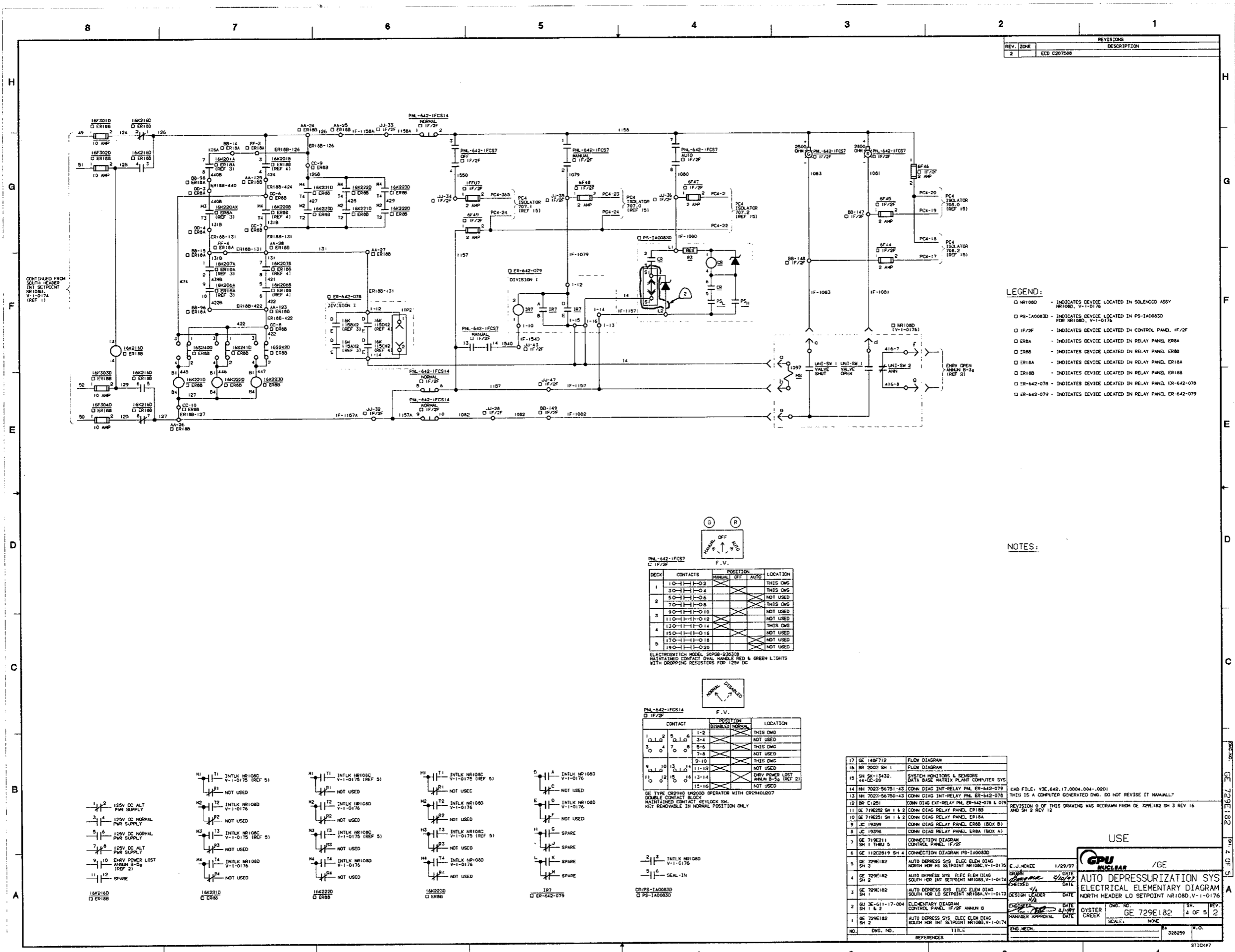
AUTO DEPRESSURIZATION SYS
ELECTRICAL ELEMENTARY DIAGRAM
NORTH HEADER HI SETPOINT NR108C, V-1-0175

DATE: 01/29/97
CHECKED: [Signature]
DESIGN LEADER: [Signature]
ENGINEER: [Signature]
MANAGER APPROVAL: [Signature]

DWG. NO.: GE 729E182
SCALE: NONE
REV. 3 OF 5
DATE: 1/19/97

NO. DNG. NO. REFERENCES

GE 729E182 SH 3 OF 5
1/19/97



REVISIONS	
REV.	DESCRIPTION
2	ECD C207008

- LEGEND:
- NR1080 - INDICATES DEVICE LOCATED IN SOLENOID ASSY NR1080, V-1-0176
 - PS-TA0083D - INDICATES DEVICE LOCATED IN PS-TA0083D FOR NR1080, V-1-0176
 - IF/2F - INDICATES DEVICE LOCATED IN CONTROL PANEL IF/2F
 - ERBA - INDICATES DEVICE LOCATED IN RELAY PANEL ERBA
 - ERBB - INDICATES DEVICE LOCATED IN RELAY PANEL ERBB
 - ERBA - INDICATES DEVICE LOCATED IN RELAY PANEL ERBA
 - ERBB - INDICATES DEVICE LOCATED IN RELAY PANEL ERBB
 - ER-642-078 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-078
 - ER-642-079 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-079

NOTES:

PNL-642-IFCS7
□ IF/2F

DECK	CONTACTS	POSITION	LOCATION
1	1-0-1-1-0-2	MANUAL OFF	THIS DWG
1	3-0-1-1-0-4	MANUAL OFF	THIS DWG
2	5-0-1-1-0-6	MANUAL OFF	NOT USED
2	7-0-1-1-0-8	MANUAL OFF	THIS DWG
2	9-0-1-1-0-10	MANUAL OFF	NOT USED
3	11-0-1-1-0-12	MANUAL OFF	NOT USED
3	13-0-1-1-0-14	MANUAL OFF	THIS DWG
3	15-0-1-1-0-16	MANUAL OFF	NOT USED
3	17-0-1-1-0-18	MANUAL OFF	NOT USED
3	19-0-1-1-0-20	MANUAL OFF	NOT USED

GE TYPE CR240 LOGIC OPERATOR WITH CR240L207
DOUBLE CONTACT BLOCK
MAINTAINED CONTACT KEYLOCK SW.
KEY REMOVABLE IN NORMAL POSITION ONLY

PNL-642-IFCS14
□ IF/2F

CONTACT	LOCATION
1-0-2	THIS DWG
3-4	NOT USED
5-6	THIS DWG
7-8	NOT USED
9-10	THIS DWG
11-12	NOT USED
13-14	THIS DWG
15-16	NOT USED

GE TYPE CR240 LOGIC OPERATOR WITH CR240L207
DOUBLE CONTACT BLOCK
MAINTAINED CONTACT KEYLOCK SW.
KEY REMOVABLE IN NORMAL POSITION ONLY

17	GE 145F712	FLOW DIAGRAM
18	BR 2000 SH 1	FLOW DIAGRAM
19	SH 3K-13432	SYSTEM MONITORS & SENSORS DATA BASE MATRIX PLANT COMPUTER SYS
20	44-CC-20	SYSTEM MONITORS & SENSORS DATA BASE MATRIX PLANT COMPUTER SYS
21	14 7023-56751-43	CONN DIAG INT-RELAY PNL ER-642-079
22	14 7023-56750-43	CONN DIAG INT-RELAY PNL ER-642-078
23	14 7023-56751-43	CONN DIAG INT-RELAY PNL ER-642-078 & 079
24	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA
25	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
26	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
27	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
28	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
29	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
30	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
31	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
32	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
33	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
34	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
35	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
36	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
37	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
38	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
39	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
40	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
41	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
42	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
43	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
44	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
45	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
46	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
47	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
48	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
49	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
50	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
51	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
52	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
53	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
54	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
55	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
56	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
57	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
58	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
59	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
60	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
61	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
62	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
63	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
64	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
65	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
66	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
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68	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
69	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
70	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
71	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
72	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
73	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
74	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
75	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
76	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
77	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
78	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
79	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
80	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
81	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
82	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
83	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
84	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
85	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
86	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
87	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
88	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
89	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
90	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
91	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
92	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
93	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
94	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
95	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
96	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
97	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
98	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)
99	14 7023-56751-43	CONN DIAG RELAY PANEL ERBB (BOX B)
100	14 7023-56751-43	CONN DIAG RELAY PANEL ERBA (BOX A)

USE

GPU NUCLEAR /GE

AUTO DEPRESSURIZATION SYS
ELECTRICAL ELEMENTARY DIAGRAM

DATE: 1/29/97
DRAWN: J. J. MOORE
CHECKED: J. J. MOORE
DESIGNED: J. J. MOORE
MANAGER APPROVAL: J. J. MOORE

NO. DWG. NO. TITLE

REV. 1 1/29/97

REV. 2 1/29/97

REV. 3 1/29/97

REV. 4 1/29/97

REV. 5 1/29/97

REV. 6 1/29/97

REV. 7 1/29/97

REV. 8 1/29/97

REV. 9 1/29/97

REV. 10 1/29/97

REV. 11 1/29/97

REV. 12 1/29/97

REV. 13 1/29/97

REV. 14 1/29/97

REV. 15 1/29/97

REV. 16 1/29/97

REV. 17 1/29/97

REV. 18 1/29/97

REV. 19 1/29/97

REV. 20 1/29/97

REV. 21 1/29/97

REV. 22 1/29/97

REV. 23 1/29/97

REV. 24 1/29/97

REV. 25 1/29/97

REV. 26 1/29/97

REV. 27 1/29/97

REV. 28 1/29/97

REV. 29 1/29/97

REV. 30 1/29/97

REV. 31 1/29/97

REV. 32 1/29/97

REV. 33 1/29/97

REV. 34 1/29/97

REV. 35 1/29/97

REV. 36 1/29/97

REV. 37 1/29/97

REV. 38 1/29/97

REV. 39 1/29/97

REV. 40 1/29/97

REV. 41 1/29/97

REV. 42 1/29/97

REV. 43 1/29/97

REV. 44 1/29/97

REV. 45 1/29/97

REV. 46 1/29/97

REV. 47 1/29/97

REV. 48 1/29/97

REV. 49 1/29/97

REV. 50 1/29/97

REV. 51 1/29/97

REV. 52 1/29/97

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REV. 54 1/29/97

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REV. 56 1/29/97

REV. 57 1/29/97

REV. 58 1/29/97

REV. 59 1/29/97

REV. 60 1/29/97

REV. 61 1/29/97

REV. 62 1/29/97

REV. 63 1/29/97

REV. 64 1/29/97

REV. 65 1/29/97

REV. 66 1/29/97

REV. 67 1/29/97

REV. 68 1/29/97

REV. 69 1/29/97

REV. 70 1/29/97

REV. 71 1/29/97

REV. 72 1/29/97

REV. 73 1/29/97

REV. 74 1/29/97

REV. 75 1/29/97

REV. 76 1/29/97

REV. 77 1/29/97

REV. 78 1/29/97

REV. 79 1/29/97

REV. 80 1/29/97

REV. 81 1/29/97

REV. 82 1/29/97

REV. 83 1/29/97

REV. 84 1/29/97

REV. 85 1/29/97

REV. 86 1/29/97

REV. 87 1/29/97

REV. 88 1/29/97

REV. 89 1/29/97

REV. 90 1/29/97

REV. 91 1/29/97

REV. 92 1/29/97

REV. 93 1/29/97

REV. 94 1/29/97

REV. 95 1/29/97

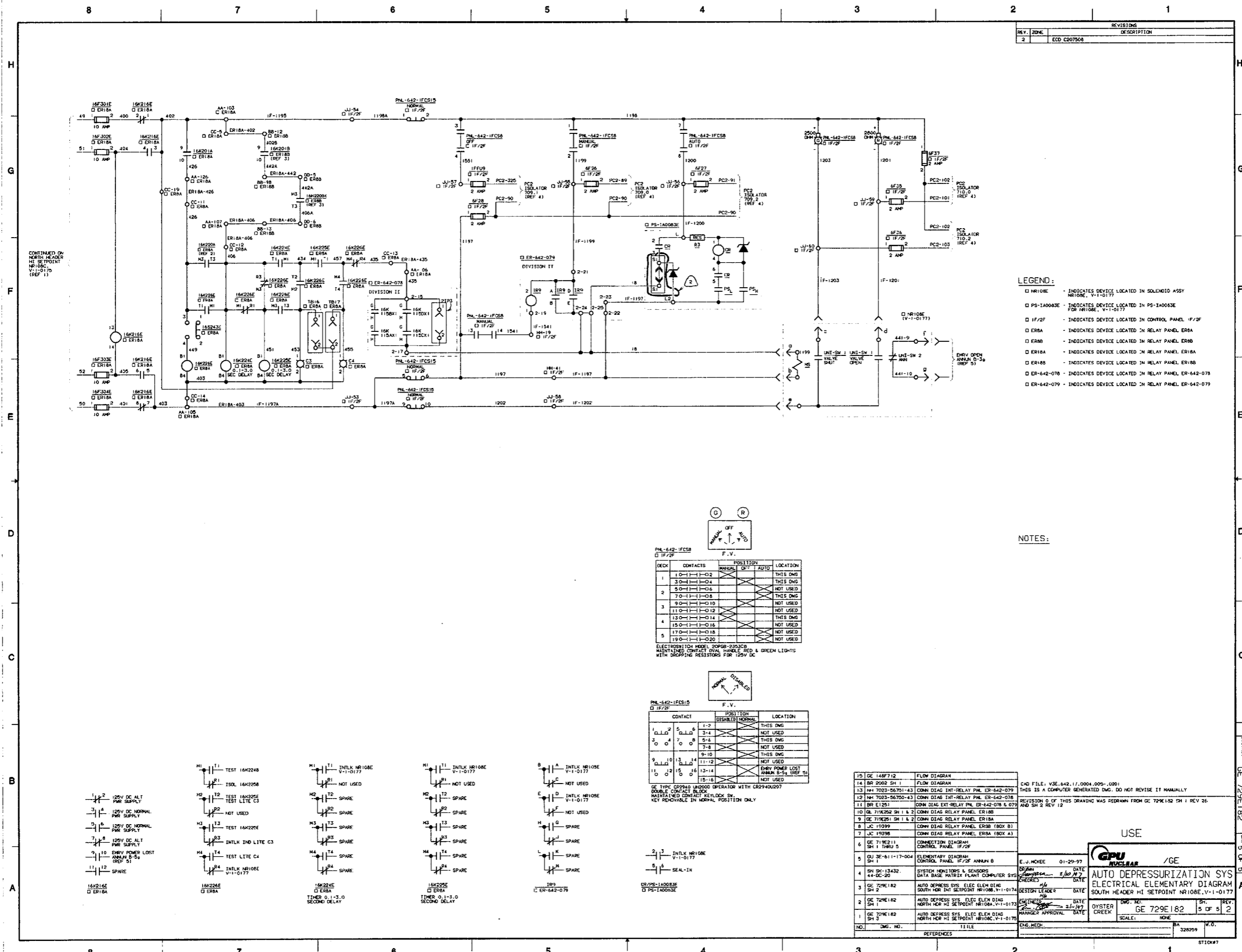
REV. 96 1/29/97

REV. 97 1/29/97

REV. 98 1/29/97

REV. 99 1/29/97

REV. 100 1/29/97



REVISIONS	
REV.	DESCRIPTION
2	ECD C207504

- LEGEND:
- NR108E - INDICATES DEVICE LOCATED IN SOLENOID ASSY NR108E, V-1-0177
 - PS-1A0083E - INDICATES DEVICE LOCATED IN PS-1A0083E FOR NR108E, V-1-0177
 - IF/2F - INDICATES DEVICE LOCATED IN CONTROL PANEL IF/2F
 - ERBA - INDICATES DEVICE LOCATED IN RELAY PANEL ERBA
 - ERBB - INDICATES DEVICE LOCATED IN RELAY PANEL ERBB
 - ER18A - INDICATES DEVICE LOCATED IN RELAY PANEL ER18A
 - ER18B - INDICATES DEVICE LOCATED IN RELAY PANEL ER18B
 - ER-642-078 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-078
 - ER-642-079 - INDICATES DEVICE LOCATED IN RELAY PANEL ER-642-079

NOTES:

PNL-642-1FCSB
□ IF/2F

F.V.

DECK	CONTACTS	POSITION	LOCATION
1	1-0-1-1-0-2	MANUAL	THIS DWG
1	3-0-1-1-0-4	OFF	THIS DWG
2	5-0-1-1-0-6	AUTO	NOT USED
2	7-0-1-1-0-8		THIS DWG
3	9-0-1-1-0-10		NOT USED
3	11-0-1-1-0-12		THIS DWG
4	13-0-1-1-0-14		NOT USED
4	15-0-1-1-0-16		THIS DWG
5	17-0-1-1-0-18		NOT USED
5	19-0-1-1-0-20		THIS DWG

ELECTRO-MOTION MODEL 2000-2000C
MAINTAINED CONTACT DUAL HAZARD, RED & GREEN LIGHTS
WITH DROPPING RESISTORS FOR 125V DC

PNL-642-1FCSB
□ IF/2F

F.V.

CONTACT	POSITION	LOCATION
1-0-2	DISABLED	THIS DWG
3-4	NOT USED	
5-6	THIS DWG	
7-8	NOT USED	
9-10	THIS DWG	
11-12	NOT USED	
13-14	THIS DWG	
15-16	NOT USED	

GE TYPE CR2940 UNIDIRECTIONAL OPERATOR WITH CR2940C207
DOUBLE CONTACT BLOCK
MAINTAINED CONTACT KEYLOCK SY.
KEY REMOVABLE IN NORMAL POSITION ONLY

15	GE 148F712	FLOW DIAGRAM
14	BR 2002 SH 1	FLOW DIAGRAM
13	NH 7023-56701-43	CONN DIAG INT-RELAY PNL ER-642-079
12	NH 7023-56700-43	CONN DIAG INT-RELAY PNL ER-642-078
11	BR E1251	CONN DIAG EXT-RELAY PNL ER-642-078 & 079
10	GE 719222 SH 1 & 2	CONN DIAG RELAY PANEL ER18B
9	GE 719222 SH 1 & 2	CONN DIAG RELAY PANEL ER18A
8	JC 19399	CONN DIAG RELAY PANEL ERBB (BOX B)
7	JC 19398	CONN DIAG RELAY PANEL ERBA (BOX A)
6	GE 719211 SH 1 THRU 5	CONNECTION DIAGRAM CONTROL PANEL IF/2F
5	GE 3E-611-17-004 SH 1	ELEMENTARY DIAGRAM CONTROL PANEL IF/2F ANNUN 8
4	SH 3K-13432 44-DC-20	SYSTEM MONITORS & SENSORS DATA BASE MATRIX PLANT COMPUTER SYS
3	GE 729E182 SH 2	AUTO DEPRESS SYS. ELEC ELEM DIAG NORTH HOR HI SETPOINT NR108A, V-1-0173
2	GE 729E182 SH 3	AUTO DEPRESS SYS. ELEC ELEM DIAG NORTH HOR HI SETPOINT NR108C, V-1-0175
1	GE 729E182 SH 3	AUTO DEPRESS SYS. ELEC ELEM DIAG NORTH HOR HI SETPOINT NR108E, V-1-0177

CAD FILE: V3E-642-17-0004-005-0201
THIS IS A COMPUTER GENERATED DWG. DO NOT REVISE IT MANUALLY
REVISION 0 OF THIS DRAWING WAS REDRAWN FROM GE 729E182 SH 1 REV 26 AND SH 2 REV 12

USE

GPU
Nuclear

DATE 2/10/77
CHECKED
DESIGN LEADER
ENGINEER
MANAGER APPROVAL
DATE 2/10/77

DATE 01-29-97
E. J. MOORE

NO. 5 OF 5

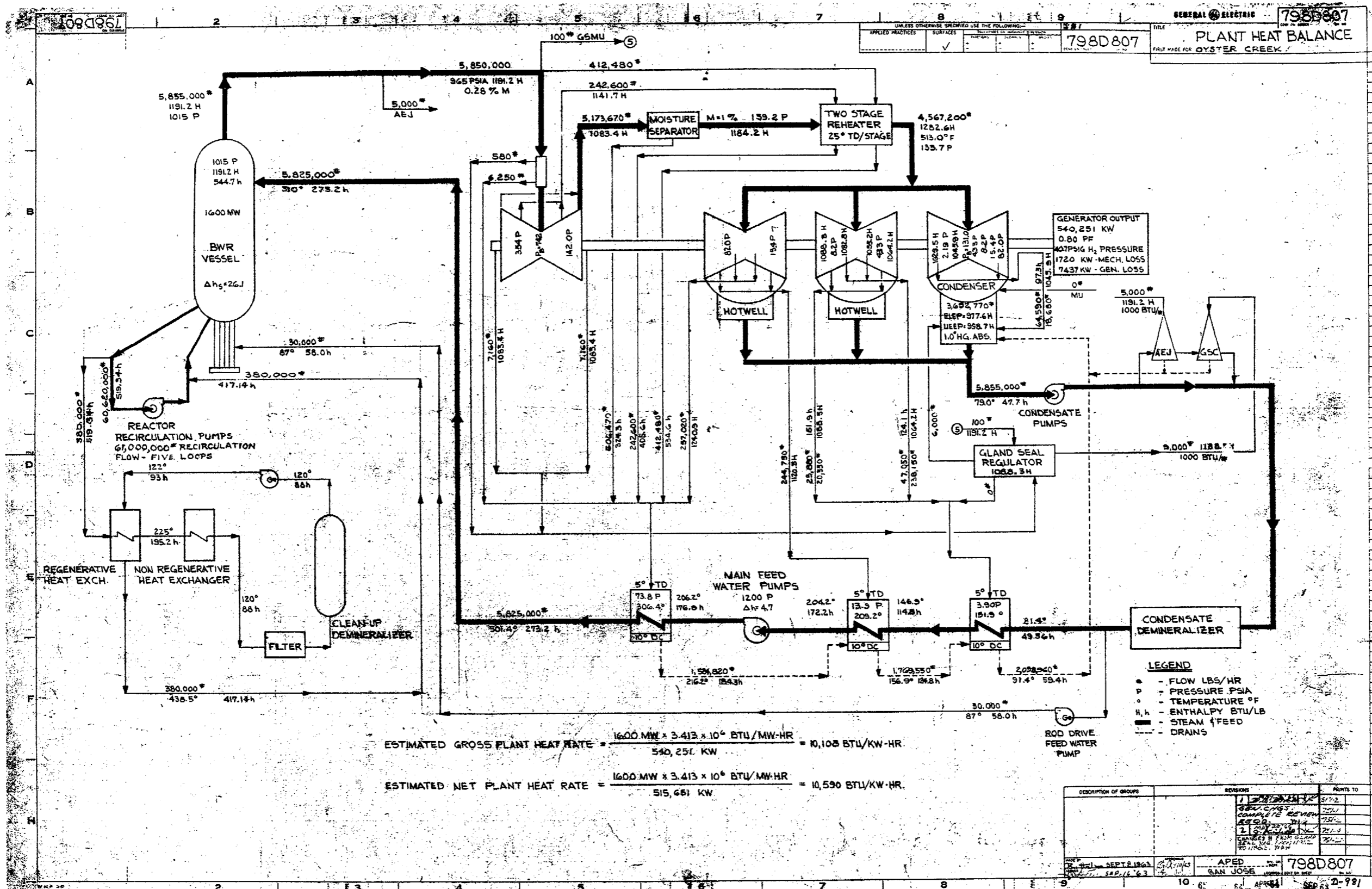
GE 729E182

SCALE: NONE

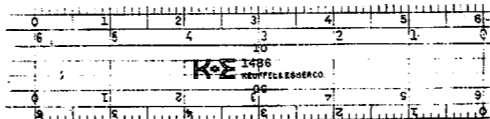
328209

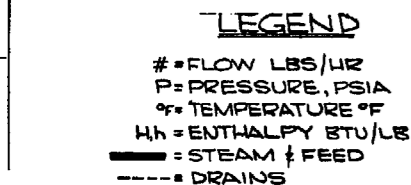
W.O.

STICK#7



24X




$$\text{ESTIMATED NET PLANT HEAT RATE} = \frac{1950 \text{ MW} \times 3.413 \times 10^6 \text{ BTU/MW-HR}}{640,000 \text{ KW}} = 10,100 \text{ BTU/KW-HR}$$

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