

Appendix 10B. Figures

Figure 10-1. Heat Balance-Valves Wide Open

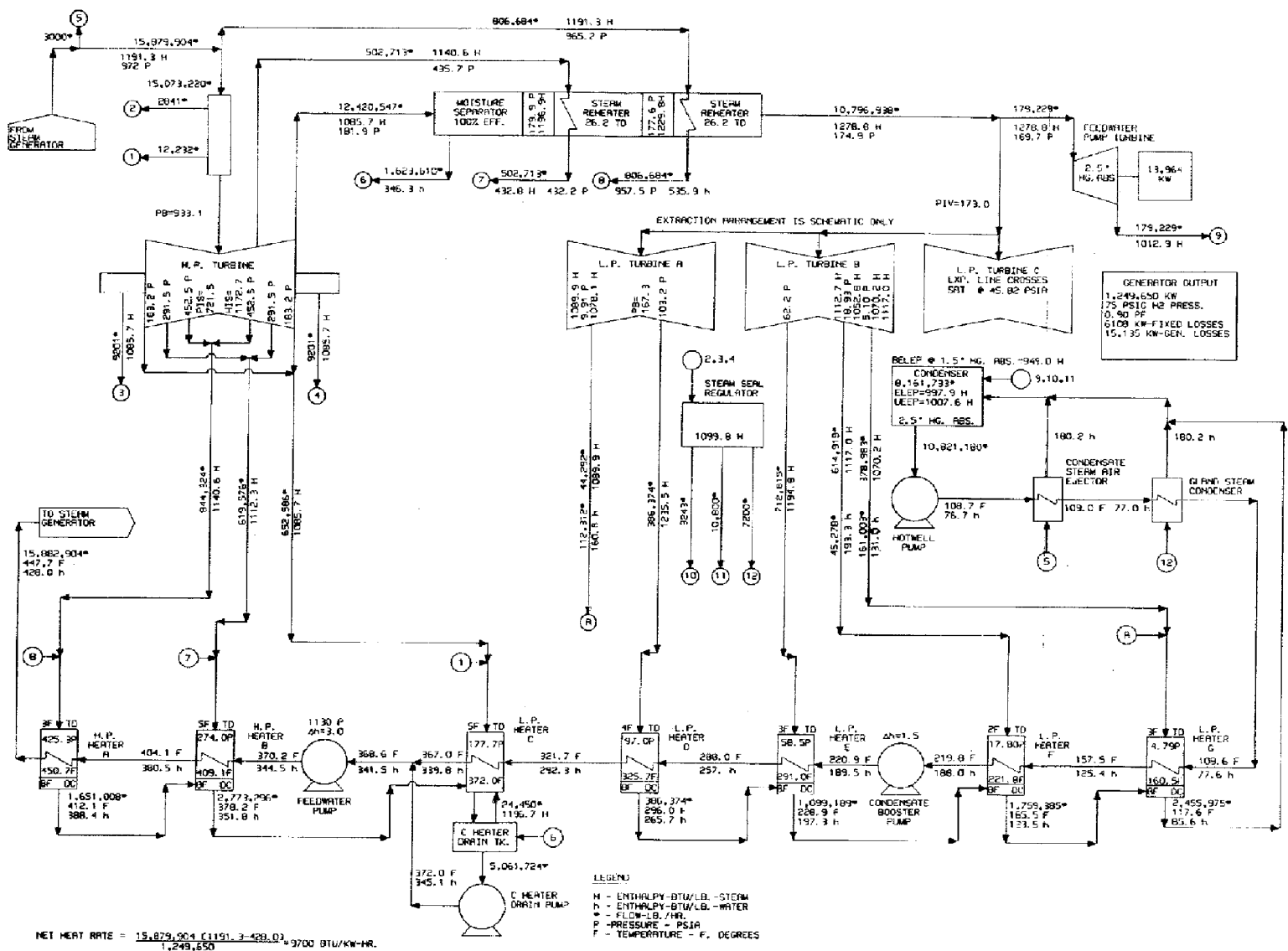
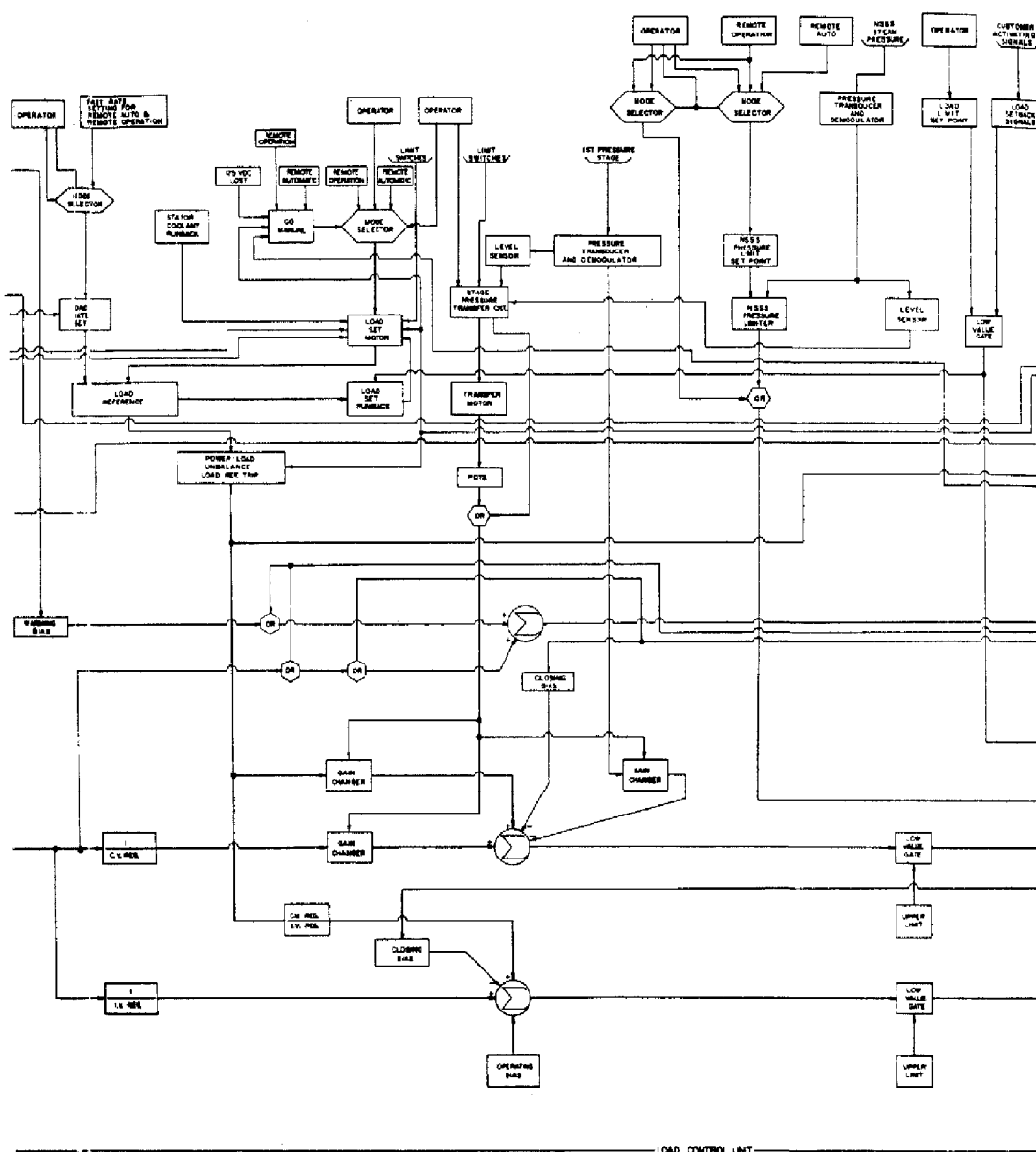
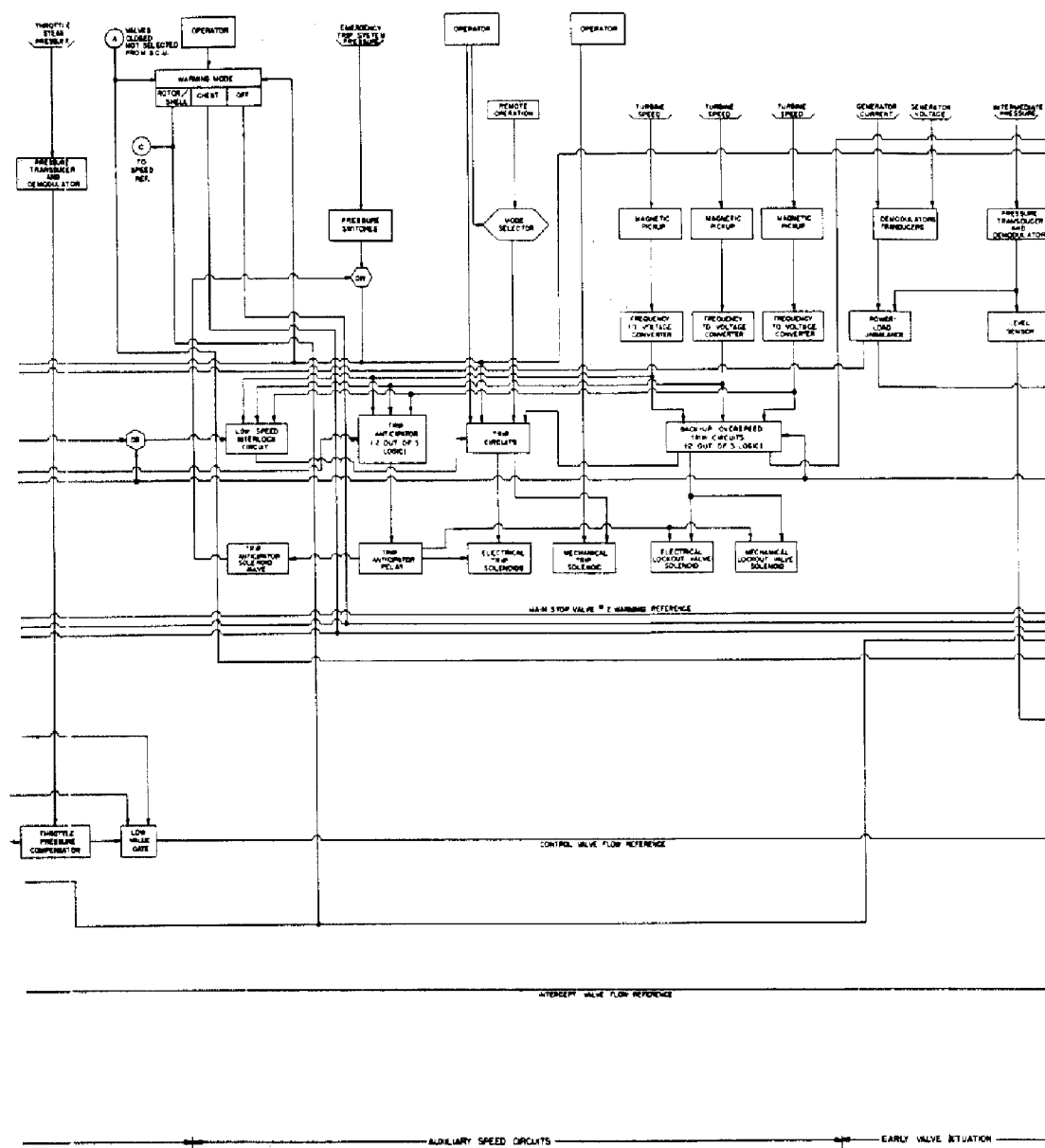
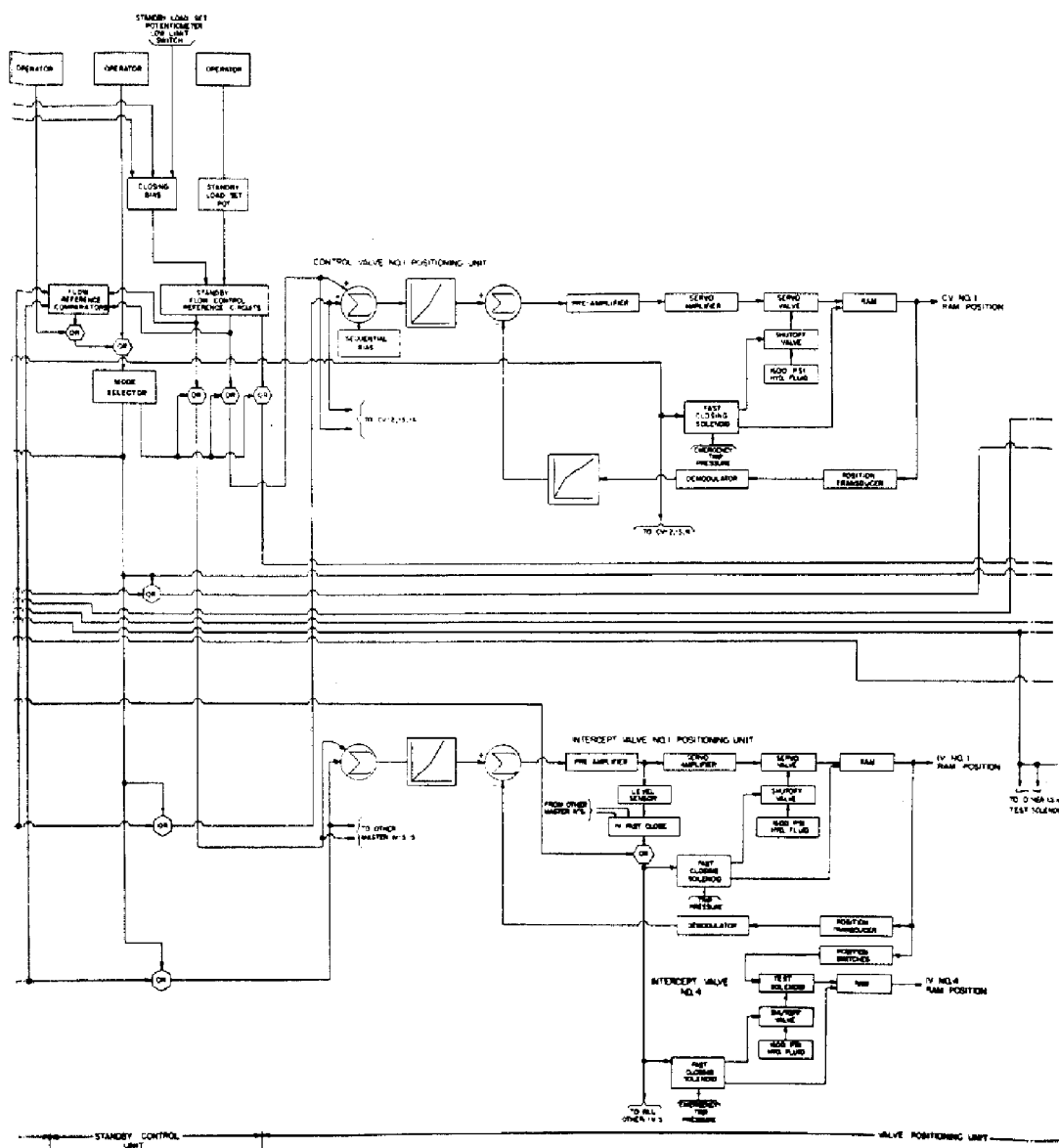


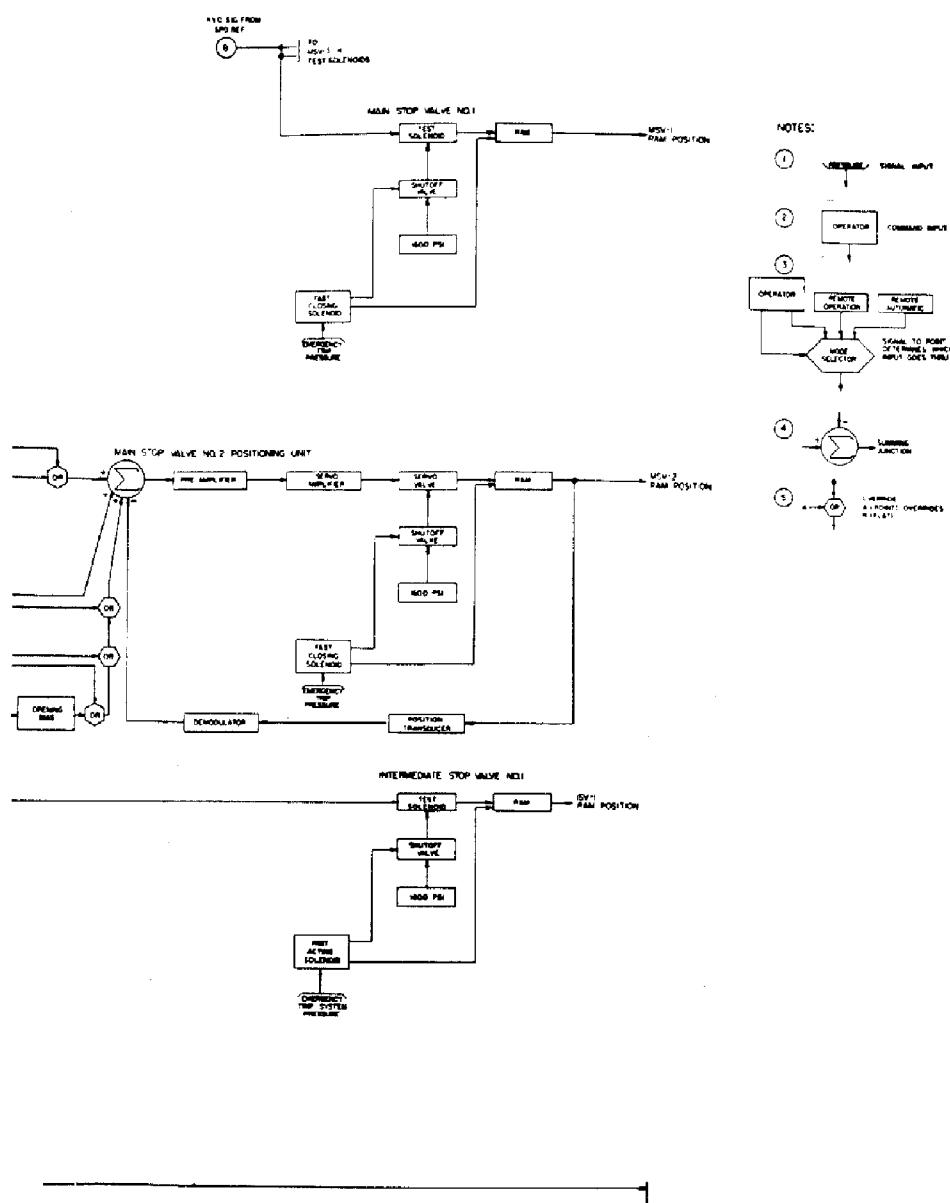
Figure 10-2. Deleted Per 2016 Update

Figure 10-3. Block Diagram of Control System (PWR)



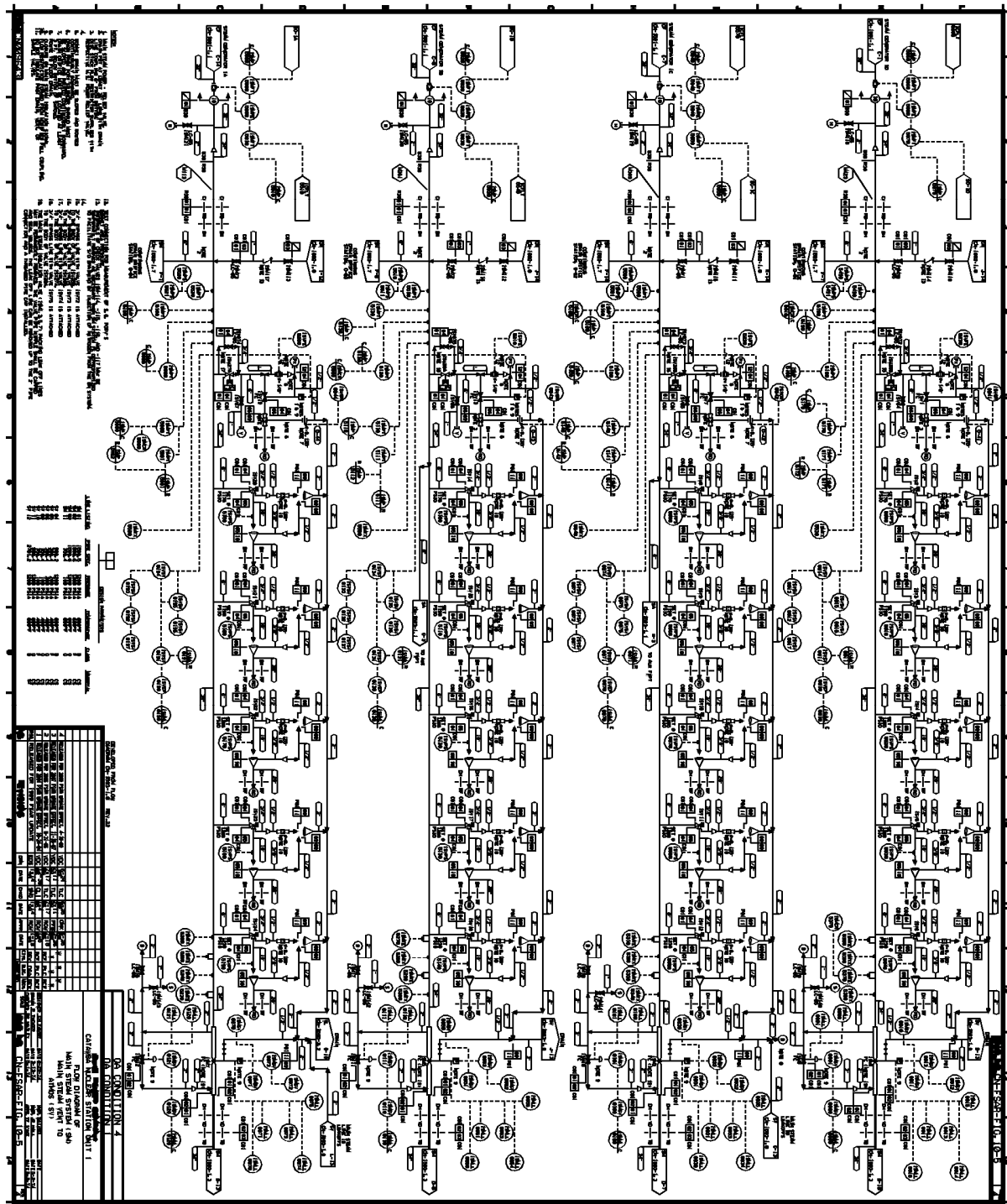






[illegible]

Figure 10-5. Flow Diagram of Main Steam System-Main Steam Vent to ATMOS



(18 APR 2009)

[illegible]

The diagram illustrates the complex piping and component layout of a steam turbine generator system. Key elements include:

- Steam Turbines:** Multiple turbines are shown, each with its own set of blades and a generator. They are connected to a common shaft system.
- Condensers:** These units are used to condense the steam after it has done work in the turbines. They are connected to the turbine exhausts.
- Pumps:** Various pumps are shown, including feedwater pumps, condensate pumps, and cooling water pumps, which maintain the flow of water/steam through the system.
- Generators:** Each turbine is coupled to a generator, which converts the mechanical energy into electrical energy.
- Legend:** A legend at the bottom left defines the symbols used in the diagram, such as for steam, water, and electrical connections.
- Data Table:** A table at the bottom right provides numerical data for various components, including flow rates, pressures, and temperatures.

The diagram is a technical drawing that provides a comprehensive overview of the system's architecture and operational parameters.

[illegible]

Figure 10-9. Flow Diagram of Steam Supply to FWP Turbine System

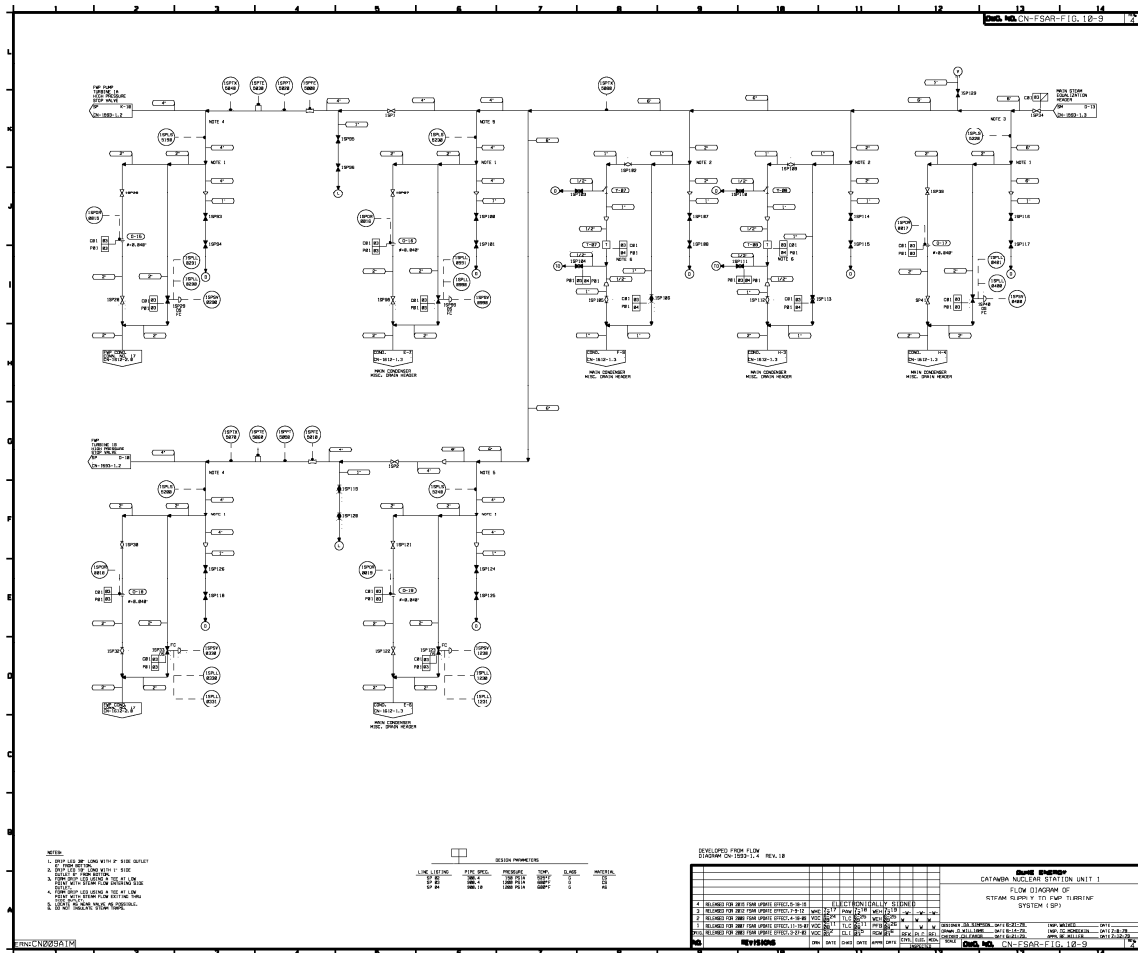
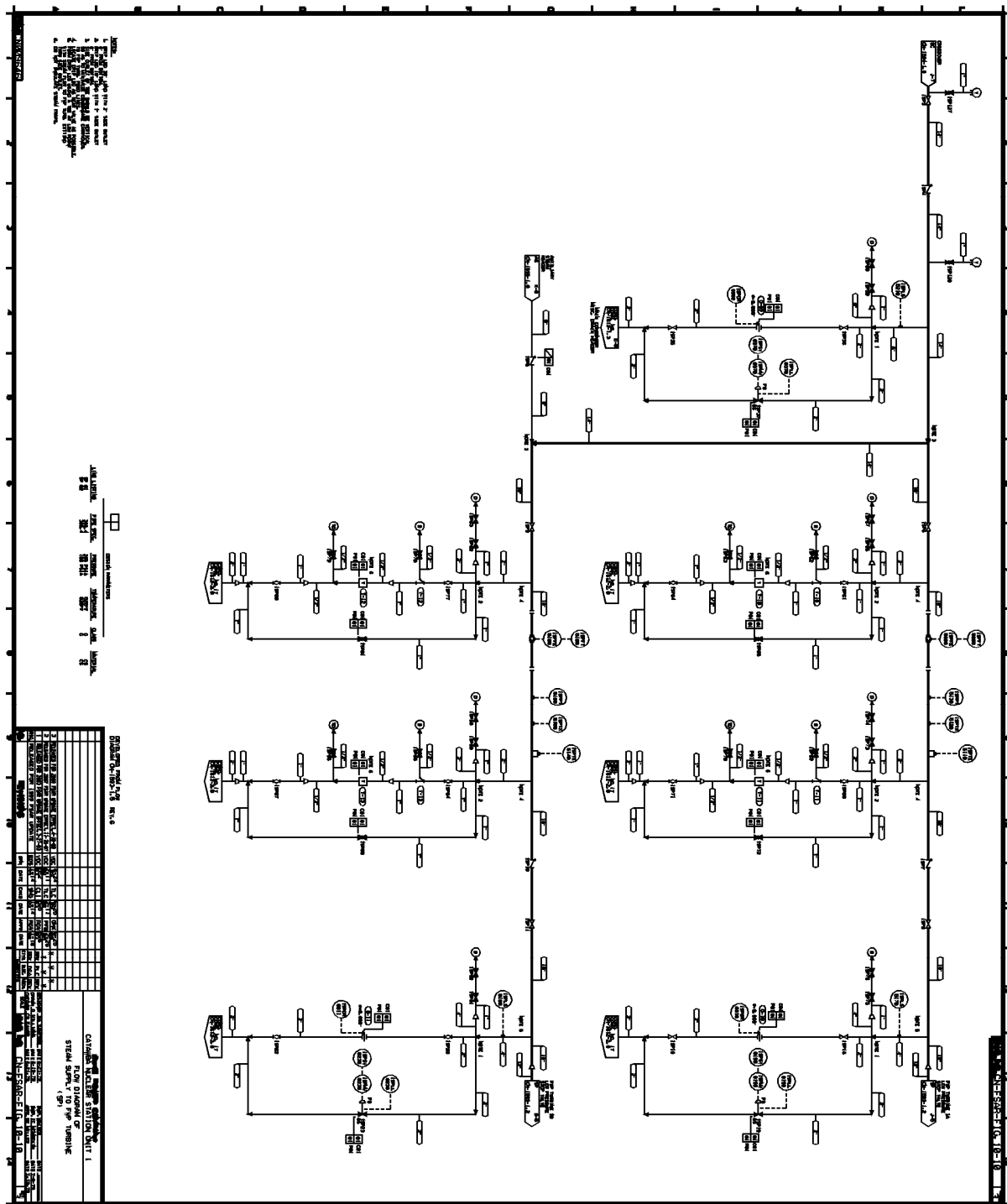
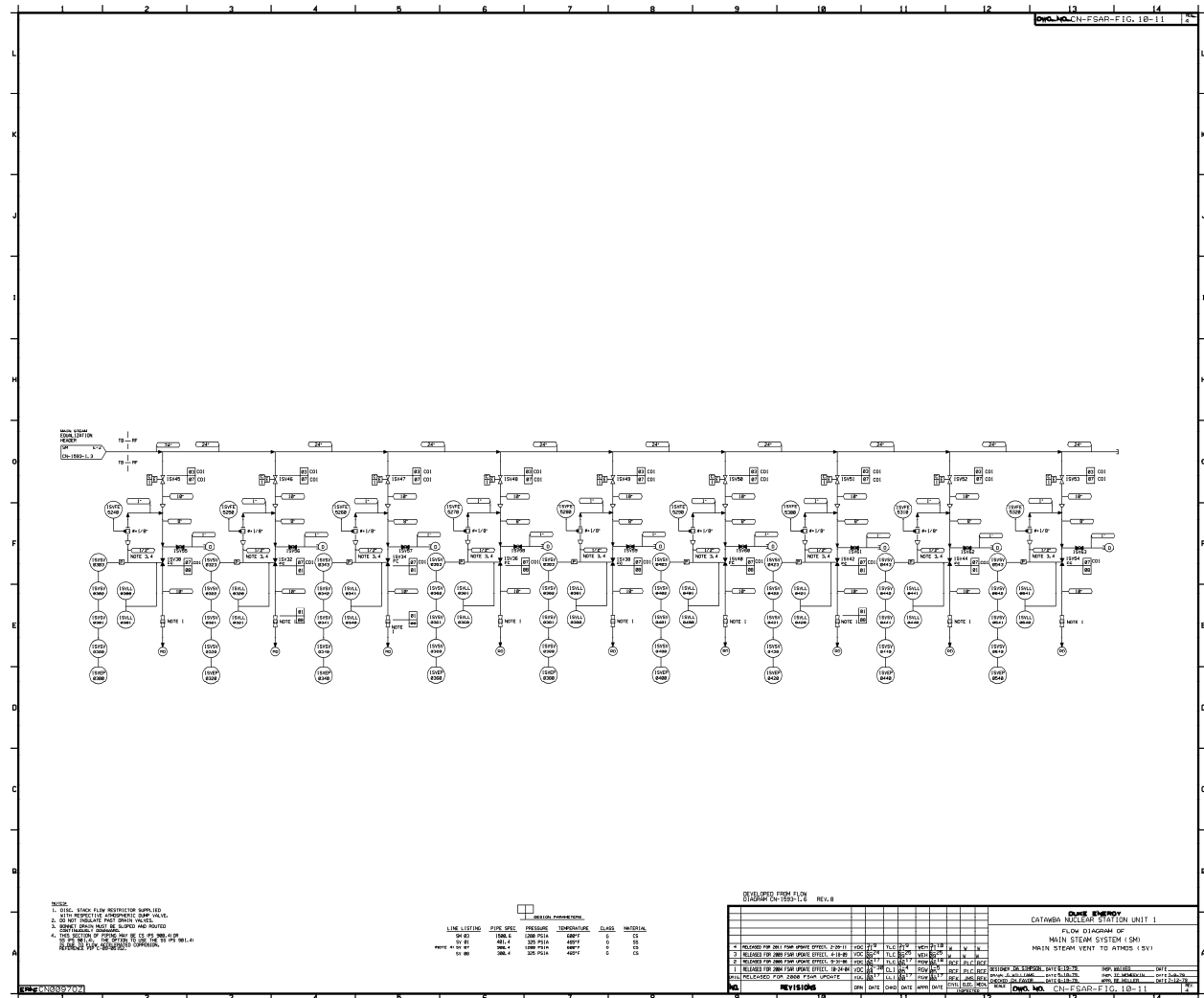


Figure 10-10. Flow Diagram of Steam Supply to FWP Turbine System



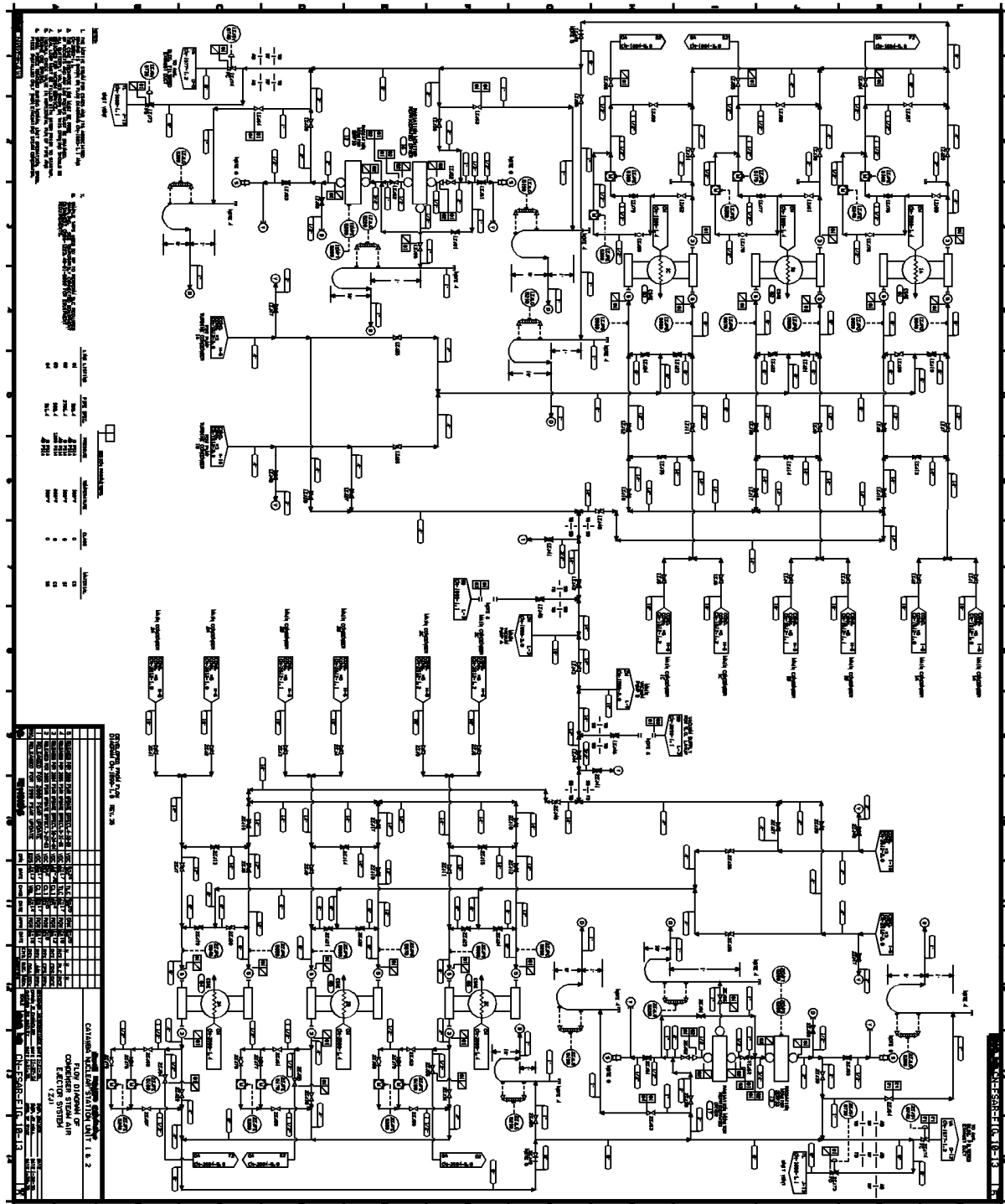
(18 APR 2009)

Figure 10-11. Flow Diagram of Main Steam System - Main Steam to Atmosphere System



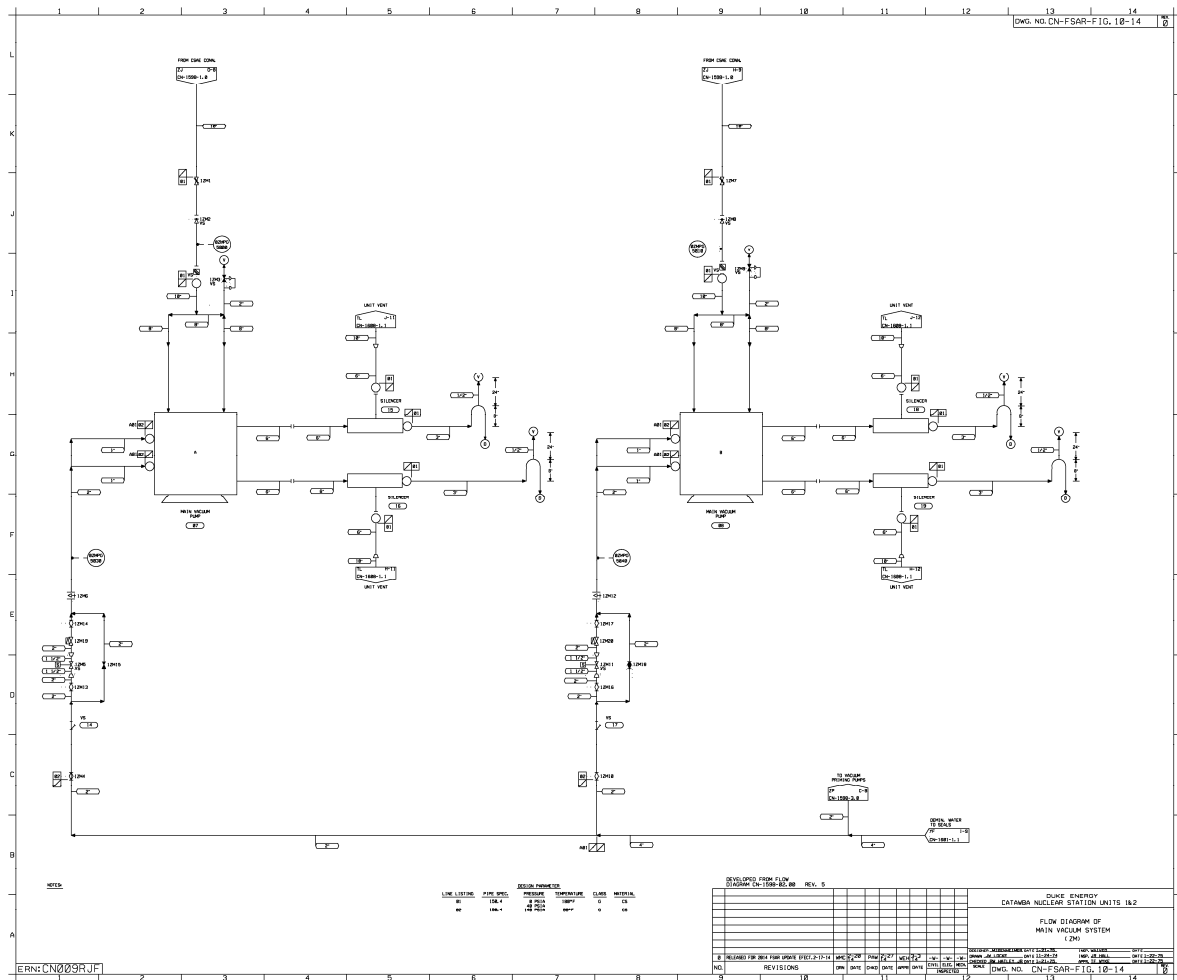
[illegible]

Figure 10-13. Flow Diagram of Condenser Steam Air Ejection System



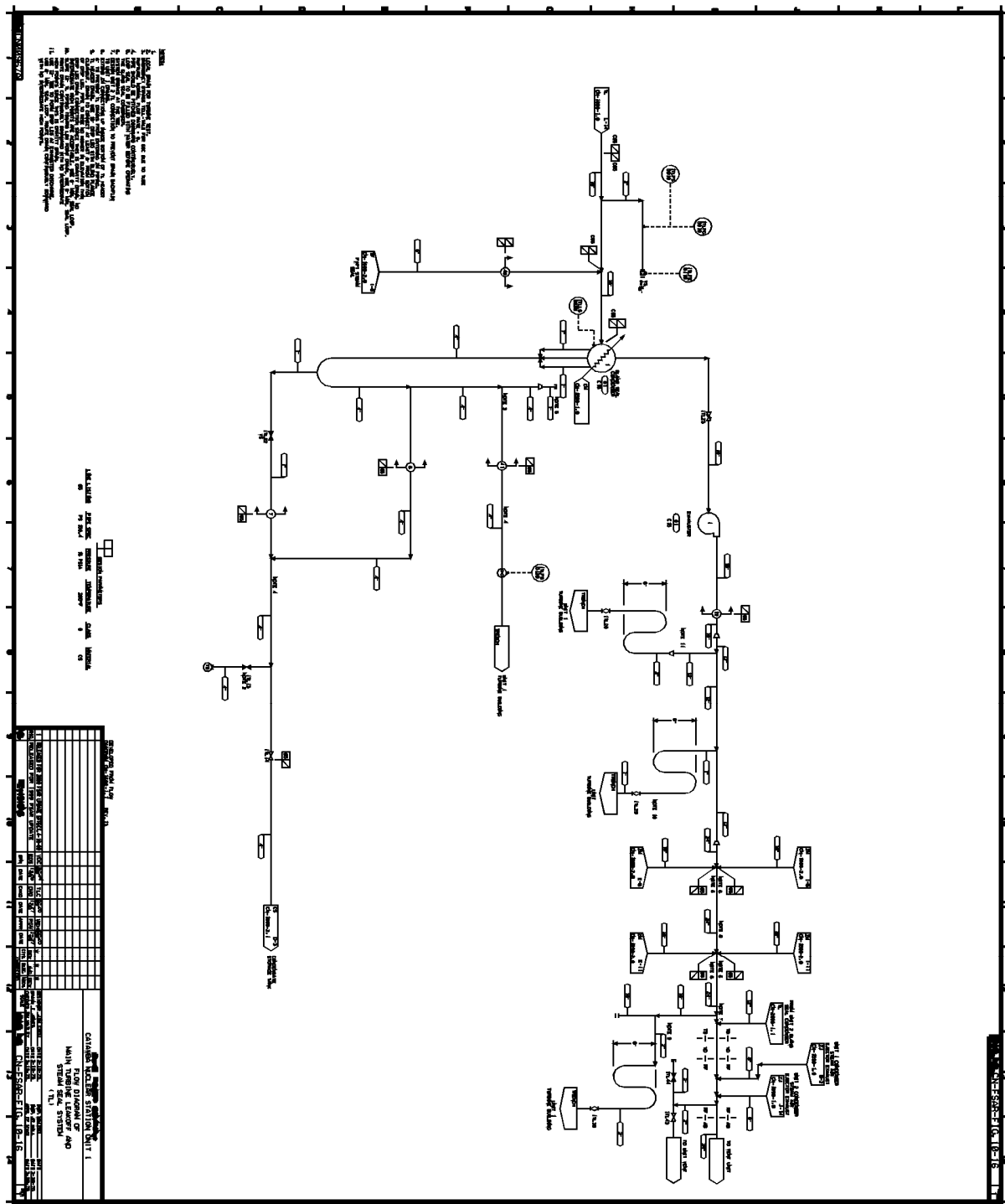
(18 APR 2009)

Figure 10-14. Flow Diagram of Main Vacuum System



[illegible]

Figure 10-16. Flow Diagram of Main Turbine Leakoff and Steam Seal System



(18 APR 2009)

[illegible]

CONDENSATE SYSTEM

SECTION 101

DESIGN PARAMETERS

ITEM	UNIT	VALUE	REMARKS
1. MAIN CONDENSATE PUMP	1000	1000	1000
2. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
3. MAIN CONDENSER	1000	1000	1000
4. STEAM GENERATOR	1000	1000	1000
5. CONDENSATE PUMP	1000	1000	1000
6. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
7. MAIN CONDENSER	1000	1000	1000
8. STEAM GENERATOR	1000	1000	1000
9. CONDENSATE PUMP	1000	1000	1000
10. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
11. MAIN CONDENSER	1000	1000	1000
12. STEAM GENERATOR	1000	1000	1000
13. CONDENSATE PUMP	1000	1000	1000
14. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
15. MAIN CONDENSER	1000	1000	1000
16. STEAM GENERATOR	1000	1000	1000
17. CONDENSATE PUMP	1000	1000	1000
18. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
19. MAIN CONDENSER	1000	1000	1000
20. STEAM GENERATOR	1000	1000	1000
21. CONDENSATE PUMP	1000	1000	1000
22. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
23. MAIN CONDENSER	1000	1000	1000
24. STEAM GENERATOR	1000	1000	1000
25. CONDENSATE PUMP	1000	1000	1000
26. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
27. MAIN CONDENSER	1000	1000	1000
28. STEAM GENERATOR	1000	1000	1000
29. CONDENSATE PUMP	1000	1000	1000
30. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
31. MAIN CONDENSER	1000	1000	1000
32. STEAM GENERATOR	1000	1000	1000
33. CONDENSATE PUMP	1000	1000	1000
34. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
35. MAIN CONDENSER	1000	1000	1000
36. STEAM GENERATOR	1000	1000	1000
37. CONDENSATE PUMP	1000	1000	1000
38. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
39. MAIN CONDENSER	1000	1000	1000
40. STEAM GENERATOR	1000	1000	1000
41. CONDENSATE PUMP	1000	1000	1000
42. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
43. MAIN CONDENSER	1000	1000	1000
44. STEAM GENERATOR	1000	1000	1000
45. CONDENSATE PUMP	1000	1000	1000
46. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
47. MAIN CONDENSER	1000	1000	1000
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50. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
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53. CONDENSATE PUMP	1000	1000	1000
54. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
55. MAIN CONDENSER	1000	1000	1000
56. STEAM GENERATOR	1000	1000	1000
57. CONDENSATE PUMP	1000	1000	1000
58. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
59. MAIN CONDENSER	1000	1000	1000
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65. CONDENSATE PUMP	1000	1000	1000
66. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
67. MAIN CONDENSER	1000	1000	1000
68. STEAM GENERATOR	1000	1000	1000
69. CONDENSATE PUMP	1000	1000	1000
70. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
71. MAIN CONDENSER	1000	1000	1000
72. STEAM GENERATOR	1000	1000	1000
73. CONDENSATE PUMP	1000	1000	1000
74. STEAM GENERATOR FEEDWATER PUMP	1000	1000	1000
75. MAIN CONDENSER	1000		

Figure 10-19. Flow Diagram of Condensate System

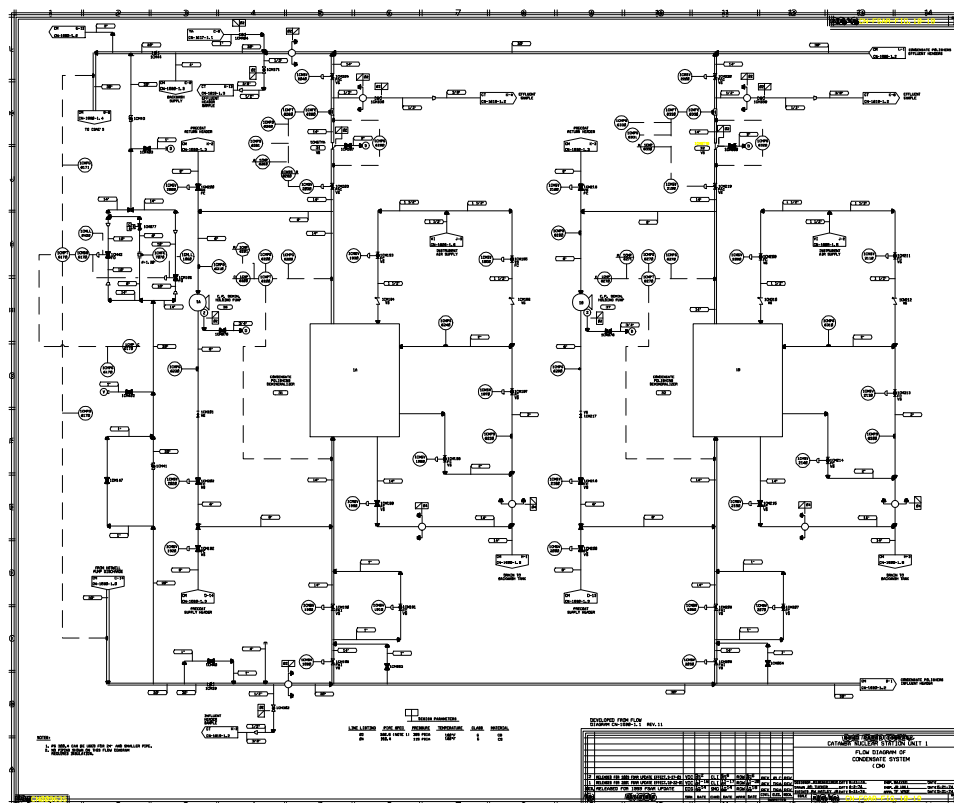


Figure 10-20. Flow Diagram of Condensate System

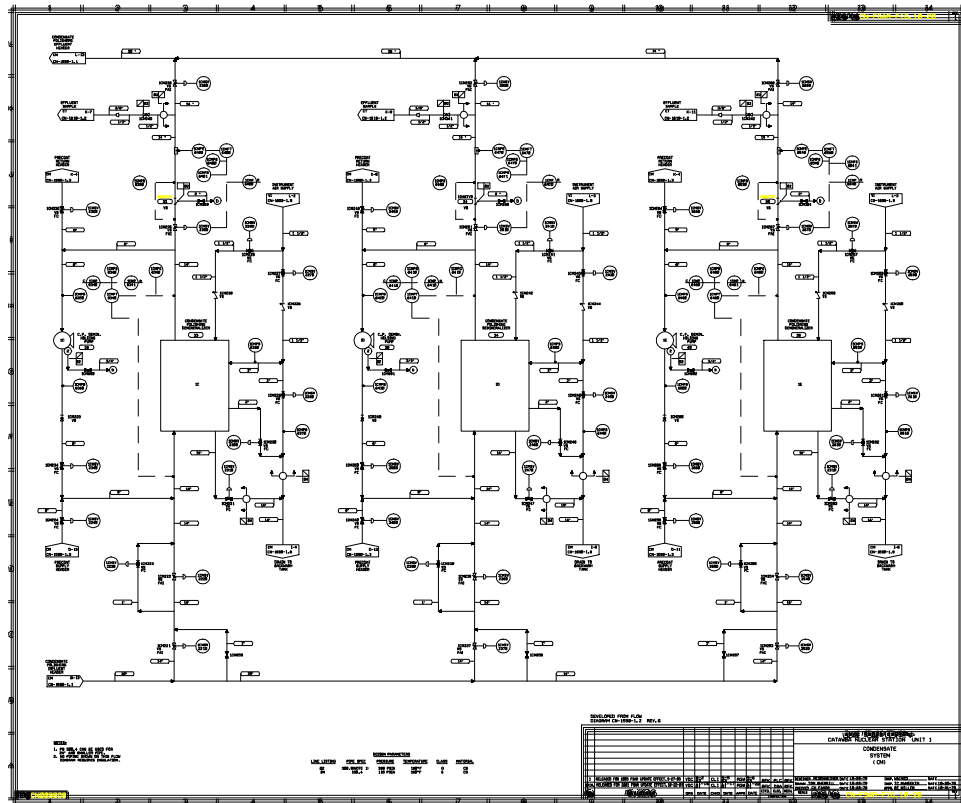
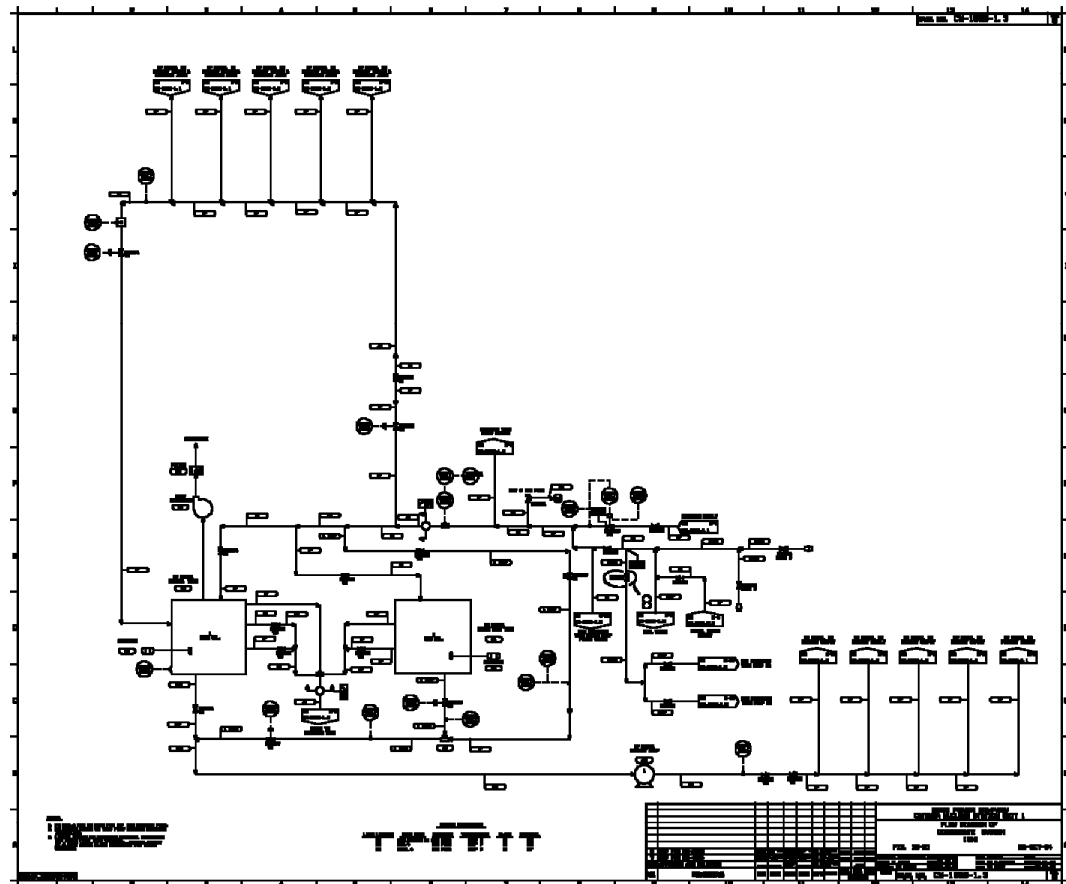


Figure 10-21. Flow Diagram of Condensate System



[illegible]

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1W

1X

1Y

1Z

1AA

1AB

1AC

1AD

1AE

1AF

1AG

1AH

1AI

1AJ

1AK

1AL

1AM

1AN

1AO

1AP

1AQ

1AR

1AS

1AT

1AU

1AV

1AW

1AX

1AY

1AZ

1BA

1BB

1BC

1BD

1BE

1BF

1BG

1BH

1BI

1BJ

1BK

1BL

1BM

1BN

1BO

1BP

1BQ

1BR

1BS

1BT

1BU

1BV

1BW

1BX

1BY

1BZ

1CA

1CB

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1CJ

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1CM

1CN

1CO

1CP

1CQ

1CR

1CS

1CT

1CU

1CV

1CW

1CX

1CY

1CZ

1DA

1DB

1DC

1DD

1DE

1DF

1DG

1DH

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1DJ

1DK

1DL

1DM

1DN

1DO

1DP

1DQ

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1DS

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1DZ

1EA

1EB

1EC

1ED

1EE

1EF

1EG

1EH

1EI

1EJ

1EK

1EL

1EM

1EN

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1LI

1LJ

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1LP

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1LY

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1MB

1MC

1MD

1ME

1MF

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1MJ

1MK

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1NM

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Figure 10-25. Flow Diagram of Condensate System

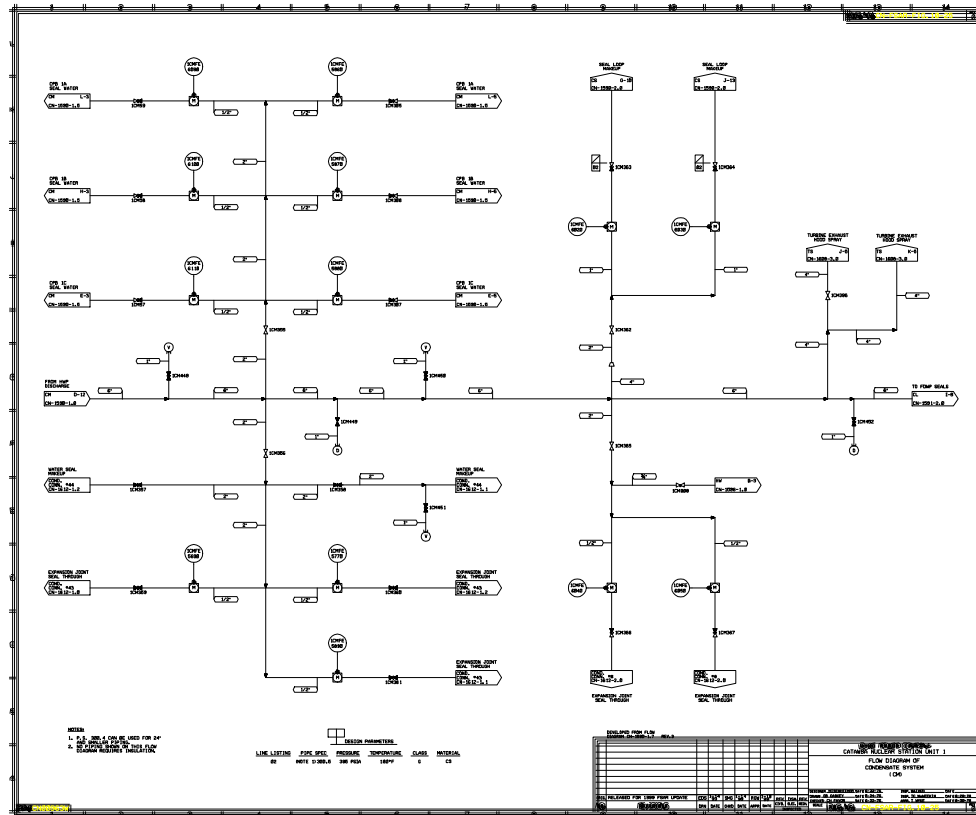
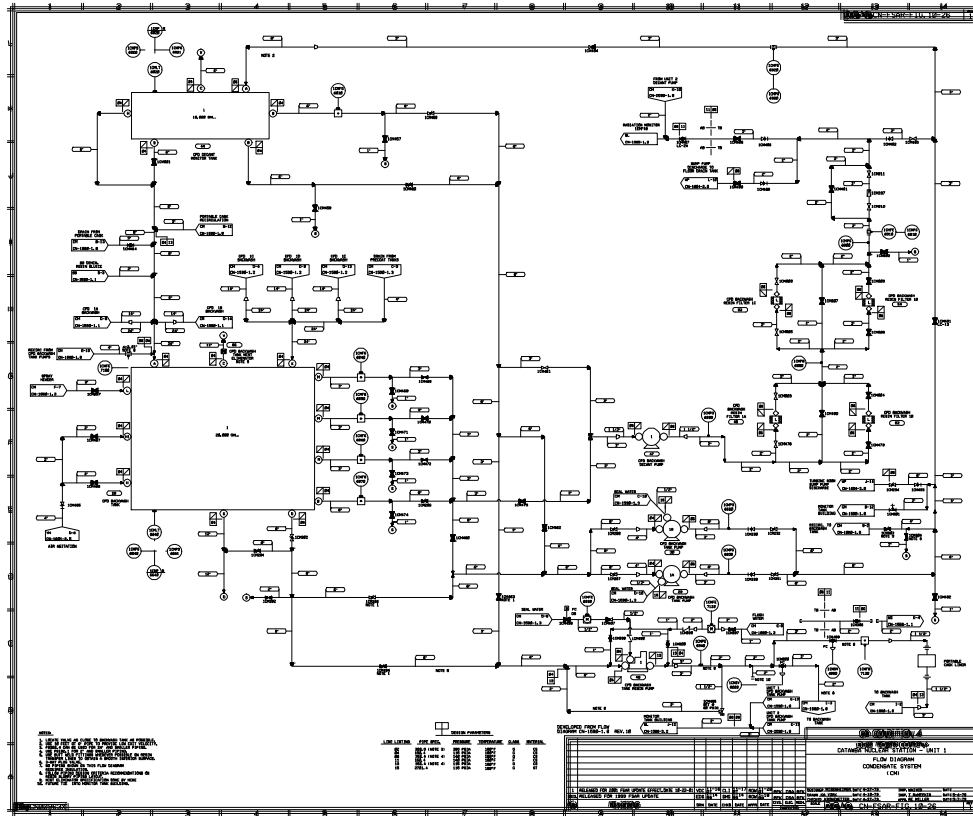


Figure 10-26. Flow Diagram of Condensate System



REVISIONS

NO.	DESCRIPTION	DATE	BY	CHKD.
1	AS ISSUED	1964-11-10	W. J. B.	W. J. B.
2	REVISION 1	1965-01-15	W. J. B.	W. J. B.
3	REVISION 2	1965-03-10	W. J. B.	W. J. B.
4	REVISION 3	1965-05-15	W. J. B.	W. J. B.
5	REVISION 4	1965-07-10	W. J. B.	W. J. B.
6	REVISION 5	1965-09-15	W. J. B.	W. J. B.
7	REVISION 6	1965-11-10	W. J. B.	W. J. B.
8	REVISION 7	1966-01-15	W. J. B.	W. J. B.
9	REVISION 8	1966-03-10	W. J. B.	W. J. B.
10	REVISION 9	1966-05-15	W. J. B.	W. J. B.
11	REVISION 10	1966-07-10	W. J. B.	W. J. B.
12	REVISION 11	1966-09-15	W. J. B.	W. J. B.
13	REVISION 12	1966-11-10	W. J. B.	W. J. B.
14	REVISION 13	1967-01-15	W. J. B.	W. J. B.
15	REVISION 14	1967-03-10	W. J. B.	W. J. B.
16	REVISION 15	1967-05-15	W. J. B.	W. J. B.
17	REVISION 16	1967-07-10	W. J. B.	W. J. B.
18	REVISION 17	1967-09-15	W. J. B.	W. J. B.
19	REVISION 18	1967-11-10	W. J. B.	W. J. B.
20	REVISION 19	1968-01-15	W. J. B.	W. J. B.
21	REVISION 20	1968-03-10	W. J. B.	W. J. B.
22	REVISION 21	1968-05-15	W. J. B.	W. J. B.
23	REVISION 22	1968-07-10	W. J. B.	W. J. B.
24	REVISION 23	1968-09-15	W. J. B.	W. J. B.
25	REVISION 24	1968-11-10	W. J. B.	W. J. B.
26	REVISION 25	1969-01-15	W. J. B.	W. J. B.
27	REVISION 26	1969-03-10	W. J. B.	W. J. B.
28	REVISION 27	1969-05-15	W. J. B.	W. J. B.
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30	REVISION 29	1969-09-15	W. J. B.	W. J. B.
31	REVISION 30	1969-11-10	W. J. B.	W. J. B.
32	REVISION 31	1970-01-15	W. J. B.	W. J. B.
33	REVISION 32	1970-03-10	W. J. B.	W. J. B.
34	REVISION 33	1970-05-15	W. J. B.	W. J. B.
35	REVISION 34	1970-07-10	W. J. B.	W. J. B.
36	REVISION 35	1970-09-15	W. J. B.	W. J. B.
37	REVISION 36	1970-11-10	W. J. B.	W. J. B.
38	REVISION 37	1971-01-15	W. J. B.	W. J. B.
39	REVISION 38	1971-03-10	W. J. B.	W. J. B.
40	REVISION 39	1971-05-15	W. J. B.	W. J. B.
41	REVISION 40	1971-07-10	W. J. B.	W. J. B.
42	REVISION 41	1971-09-15	W. J. B.	W. J. B.
43	REVISION 42	1971-11-10	W. J. B.	W. J. B.
44	REVISION 43	1972-01-15	W. J. B.	W. J. B.
45	REVISION 44	1972-03-10	W. J. B.	W. J. B.
46	REVISION 45	1972-05-15	W. J. B.	W. J. B.
47	REVISION 46	1972-07-10	W. J. B.	W. J. B.
48	REVISION 47	1972-09-15	W. J. B.	W. J. B.
49	REVISION 48	1972-11-10	W. J. B.	W. J. B.
50	REVISION 49	1973-01-15	W. J. B.	W. J. B.
51	REVISION 50	1973-03-10	W. J. B.	W. J. B.
52	REVISION 51	1973-05-15	W. J. B.	W. J. B.
53	REVISION 52	1973-07-10	W. J. B.	W. J. B.
54	REVISION 53	1973-09-15	W. J. B.	W. J. B.
55	REVISION 54	1973-11-10	W. J. B.	W. J. B.
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61	REVISION 60	1974-11-10	W. J. B.	W. J. B.
62	REVISION 61	1975-01-15	W. J. B.	W. J. B.
63				

Figure 10-28. Flow Diagram of Feedwater System

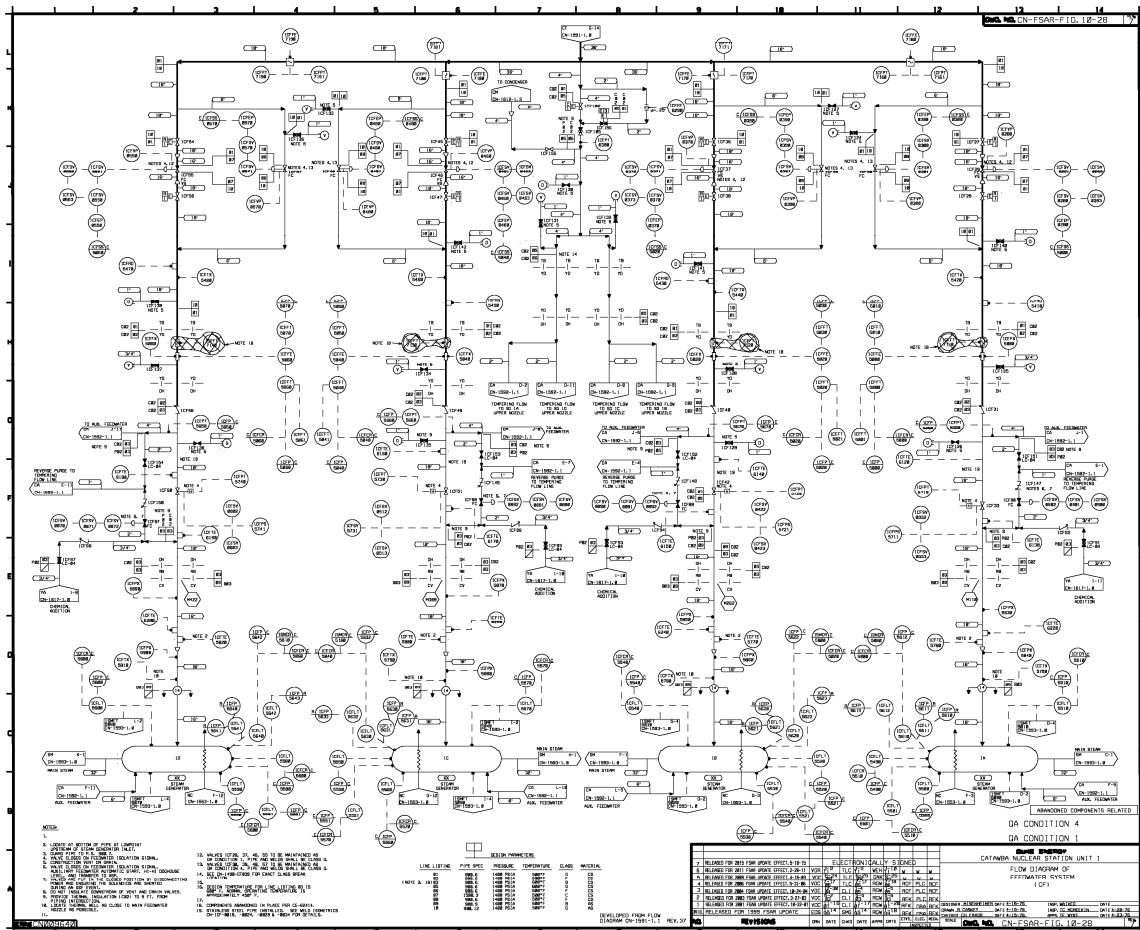
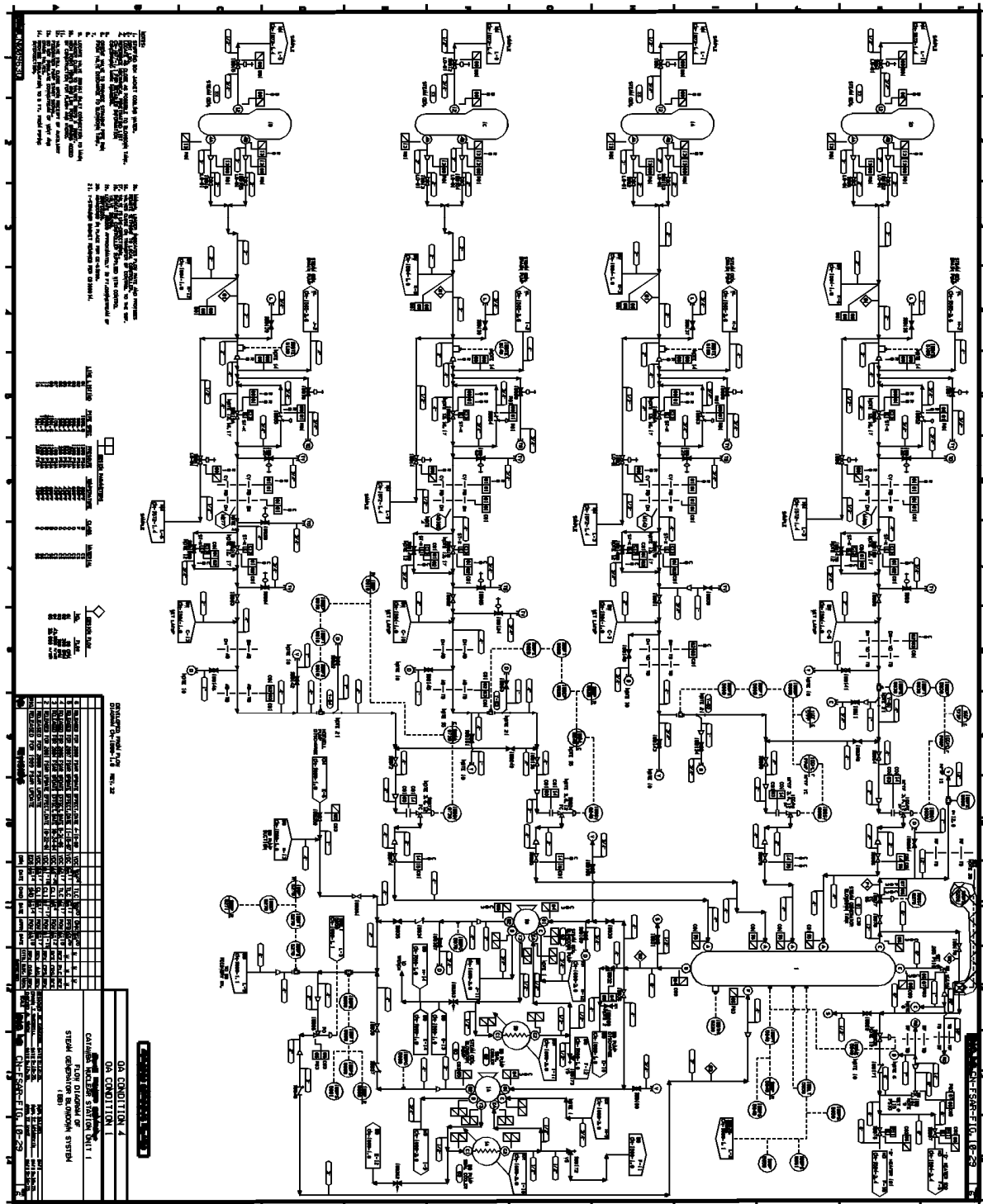


Figure 10-29. Flow Diagram of Steam Generator Blowdown System



(18 APR 2009)

Legend:

- 1. ELECTRICAL SYMBOLS
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- 99. ELECTRICAL SYMBOLS
- 100. ELECTRICAL SYMBOLS

Table:

ITEM	DESCRIPTION	LOCATION	REMARKS
1	REACTOR CORE	REACTOR	
2	STEAM GENERATOR	STEAM GENERATOR	
3	FEEDWATER PUMP	FEEDWATER PUMP	
4	CONDENSATE PUMP	CONDENSATE PUMP	
5	STEAM PUMP	STEAM PUMP	
6	CONDENSATE PUMP	CONDENSATE PUMP	
7	FEEDWATER PUMP	FEEDWATER PUMP	
8	CONDENSATE PUMP	CONDENSATE PUMP	
9	STEAM PUMP	STEAM PUMP	
10	CONDENSATE PUMP	CONDENSATE PUMP	
11	FEEDWATER PUMP	FEEDWATER PUMP	
12	CONDENSATE PUMP	CONDENSATE PUMP	
13	STEAM PUMP	STEAM PUMP	
14	CONDENSATE PUMP	CONDENSATE PUMP	
15	FEEDWATER PUMP	FEEDWATER PUMP	
16	CONDENSATE PUMP	CONDENSATE PUMP	
17	STEAM PUMP	STEAM PUMP	
18	CONDENSATE PUMP	CONDENSATE PUMP	
19	FEEDWATER PUMP	FEEDWATER PUMP	
20	CONDENSATE PUMP	CONDENSATE PUMP	
21	STEAM PUMP	STEAM PUMP	
22	CONDENSATE PUMP	CONDENSATE PUMP	
23	FEEDWATER PUMP	FEEDWATER PUMP	
24	CONDENSATE PUMP	CONDENSATE PUMP	
25	STEAM PUMP	STEAM PUMP	
26	CONDENSATE PUMP	CONDENSATE PUMP	
27	FEEDWATER PUMP	FEEDWATER PUMP	
28	CONDENSATE PUMP	CONDENSATE PUMP	
29	STEAM PUMP	STEAM PUMP	
30	CONDENSATE PUMP	CONDENSATE PUMP	
31	FEEDWATER PUMP	FEEDWATER PUMP	
32	CONDENSATE PUMP	CONDENSATE PUMP	
33	STEAM PUMP	STEAM PUMP	
34	CONDENSATE PUMP	CONDENSATE PUMP	
35	FEEDWATER PUMP	FEEDWATER PUMP	
36	CONDENSATE PUMP	CONDENSATE PUMP	
37	STEAM PUMP	STEAM PUMP	
38	CONDENSATE PUMP	CONDENSATE PUMP	
39	FEEDWATER PUMP	FEEDWATER PUMP	
40	CONDENSATE PUMP	CONDENSATE PUMP	
41	STEAM PUMP	STEAM PUMP	
42	CONDENSATE PUMP	CONDENSATE PUMP	
43	FEEDWATER PUMP	FEEDWATER PUMP	
44	CONDENSATE PUMP	CONDENSATE PUMP	
45	STEAM PUMP	STEAM PUMP	
46	CONDENSATE PUMP	CONDENSATE PUMP	
47	FEEDWATER PUMP	FEEDWATER PUMP	
48	CONDENSATE PUMP	CONDENSATE PUMP	
49	STEAM PUMP	STEAM PUMP	
50	CONDENSATE PUMP	CONDENSATE PUMP	
51	FEEDWATER PUMP	FEEDWATER PUMP	
52	CONDENSATE PUMP	CONDENSATE PUMP	
53	STEAM PUMP	STEAM PUMP	
54	CONDENSATE PUMP	CONDENSATE PUMP	
55	FEEDWATER PUMP	FEEDWATER PUMP	
56	CONDENSATE PUMP	CONDENSATE PUMP	
57	STEAM PUMP	STEAM PUMP	
58	CONDENSATE PUMP	CONDENSATE PUMP	
59	FEEDWATER PUMP	FEEDWATER PUMP	
60	CONDENSATE PUMP	CONDENSATE PUMP	
61	STEAM PUMP	STEAM PUMP	

Figure 10-31. Flow Diagram of Steam Generator Blowdown System

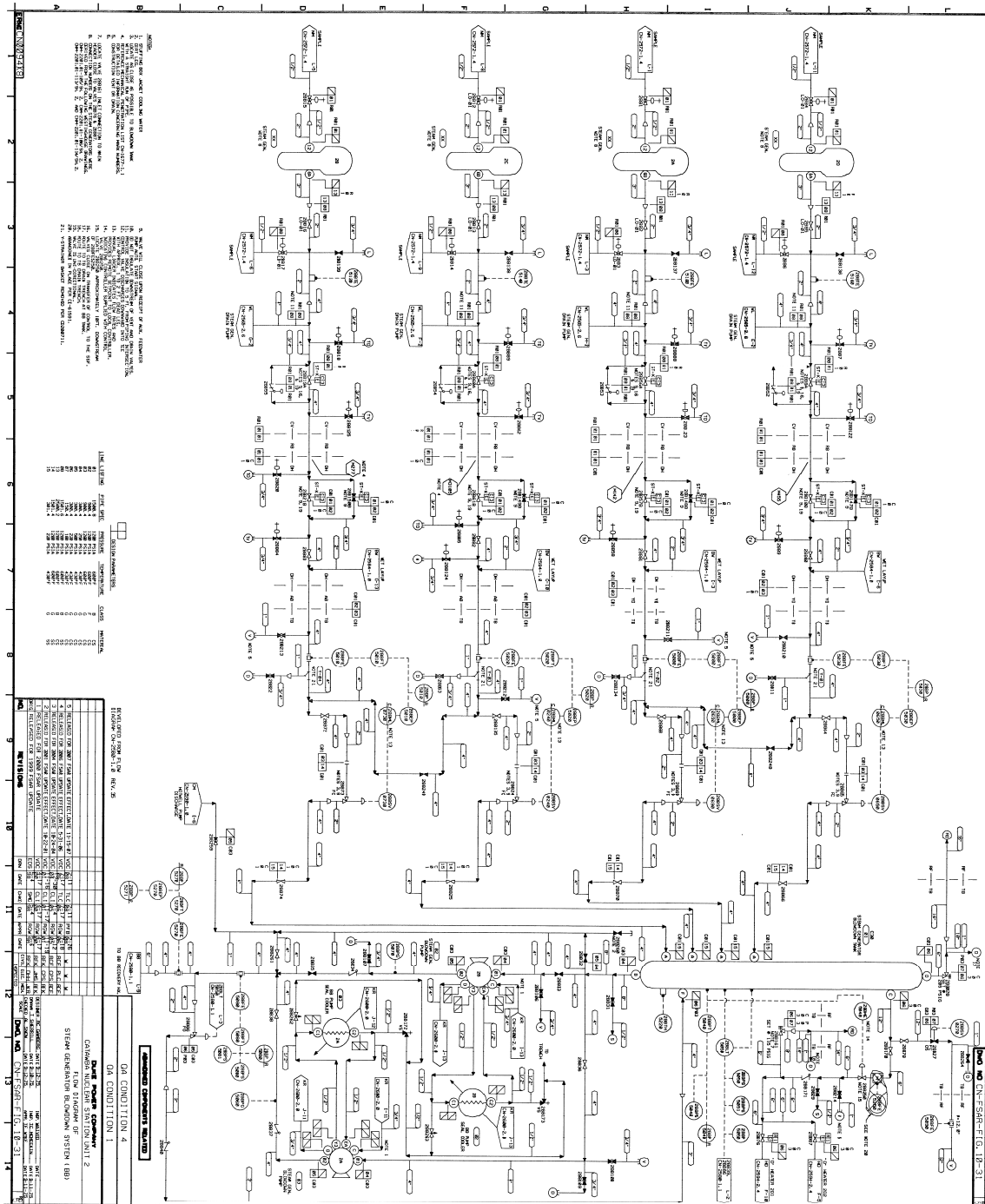
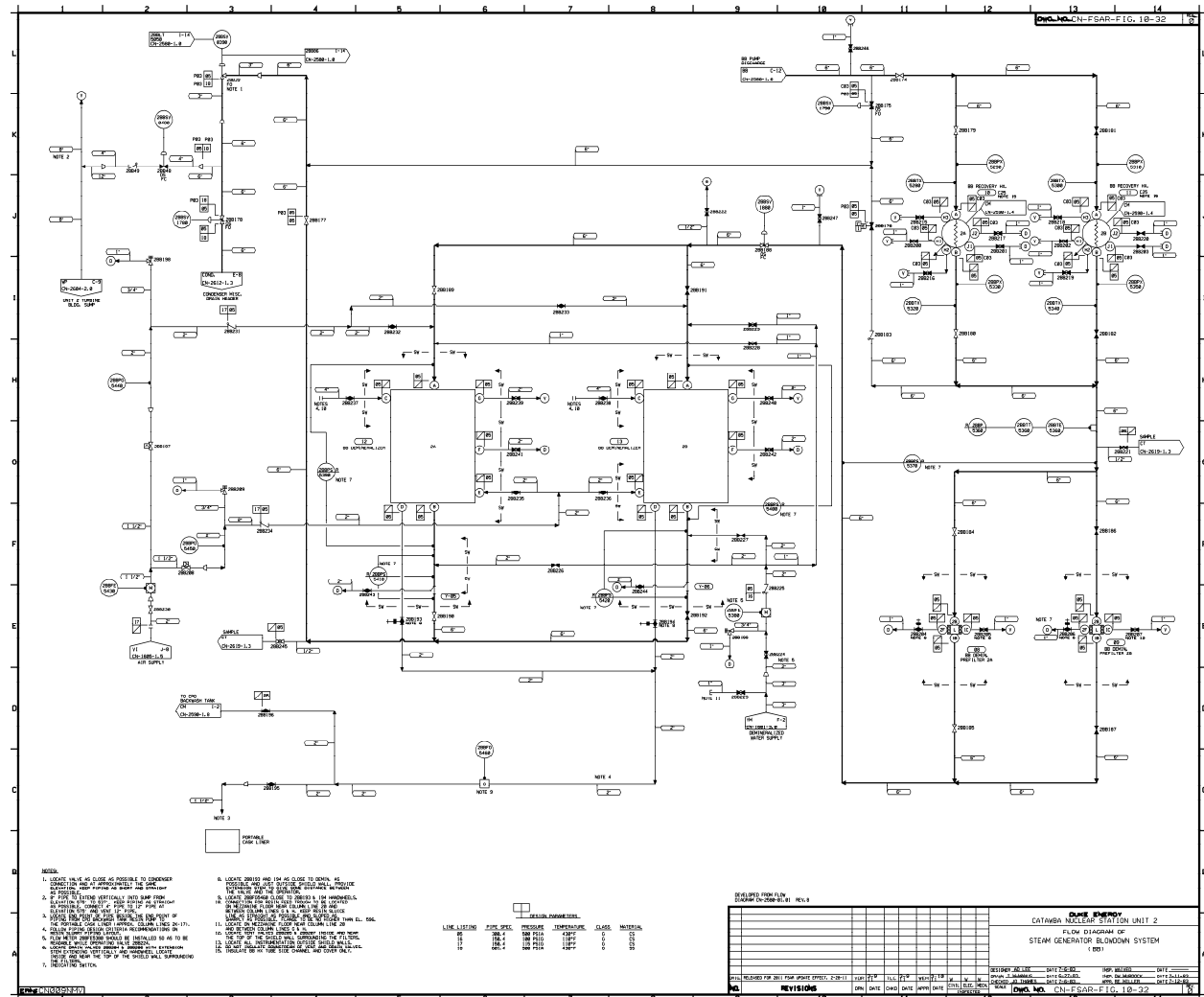


Figure 10-32. Flow Diagram of Steam Generator Blowdown System



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[illegible]

MOISTURE SEPARATOR - HEATER 1A
(CN-1000-L-1)

MOISTURE SEPARATOR

HEATER 1A

HEATER 1B

HEATER 1C

HEATER 1D

HEATER 1E

HEATER 1F

HEATER 1G

HEATER 1H

HEATER 1I

HEATER 1J

HEATER 1K

HEATER 1L

HEATER 1M

HEATER 1N

HEATER 1O

HEATER 1P

HEATER 1Q

HEATER 1R

HEATER 1S

HEATER 1T

HEATER 1U

HEATER 1V

HEATER 1W

HEATER 1X

HEATER 1Y

HEATER 1Z

HEATER 1AA

HEATER 1AB

HEATER 1AC

HEATER 1AD

HEATER 1AE

HEATER 1AF

HEATER 1AG

HEATER 1AH

HEATER 1AI

HEATER 1AJ

HEATER 1AK

HEATER 1AL

HEATER 1AM

HEATER 1AN

HEATER 1AO

HEATER 1AP

HEATER 1AQ

HEATER 1AR

HEATER 1AS

HEATER 1AT

HEATER 1AU

HEATER 1AV

HEATER 1AW

HEATER 1AX

HEATER 1AY

HEATER 1AZ

HEATER 1BA

HEATER 1BB

HEATER 1BC

HEATER 1BD

HEATER 1BE

HEATER 1BF

HEATER 1BG

HEATER 1BH

HEATER 1BI

HEATER 1BJ

HEATER 1BK

HEATER 1BL

HEATER 1BM

HEATER 1BN

HEATER 1BO

HEATER 1BP

HEATER 1BQ

HEATER 1BR

HEATER 1BS

HEATER 1BT

HEATER 1BU

HEATER 1BV

HEATER 1BW

HEATER 1BX

HEATER 1BY

HEATER 1BZ

HEATER 1CA

HEATER 1CB

HEATER 1CC

HEATER 1CD

HEATER 1CE

HEATER 1CF

HEATER 1CG

HEATER 1CH

HEATER 1CI

HEATER 1CJ

HEATER 1CK

HEATER 1CL

HEATER 1CM

HEATER 1CN

HEATER 1CO

HEATER 1CP

HEATER 1CQ

HEATER 1CR

HEATER 1CS

HEATER 1CT

HEATER 1CU

HEATER 1CV

HEATER 1CW

HEATER 1CX

HEATER 1CY

HEATER 1CZ

HEATER 1DA

HEATER 1DB

HEATER 1DC

HEATER 1DD

HEATER 1DE

HEATER 1DF

HEATER 1DG

HEATER 1DH

HEATER 1DI

HEATER 1DJ

HEATER 1DK

HEATER 1DL

HEATER 1DM

HEATER 1DN

HEATER 1DO

HEATER 1DP

HEATER 1DQ

HEATER 1DR

HEATER 1DS

HEATER 1DT

HEATER 1DU

HEATER 1DV

HEATER 1DW

HEATER 1DX

HEATER 1DY

HEATER 1DZ

HEATER 1EA

HEATER 1EB

HEATER 1EC

HEATER 1ED

HEATER 1EE

HEATER 1EF

HEATER 1EG

HEATER 1EH

HEATER 1EI

HEATER 1EJ

HEATER 1EK

HEATER 1EL

HEATER 1EM

HEATER 1EN

HEATER 1EO

HEATER 1EP

HEATER 1EQ

HEATER 1ER

HEATER 1ES

HEATER 1ET

HEATER 1EU

HEATER 1EV

HEATER 1EW

HEATER 1EX

HEATER 1EY

HEATER 1EZ

HEATER 1FA

HEATER 1FB

HEATER 1FC

HEATER 1FD

HEATER 1FE

HEATER 1FF

HEATER 1FG

HEATER 1FH

HEATER 1FI

HEATER 1FJ

HEATER 1FK

HEATER 1FL

HEATER 1FM

HEATER 1FN

HEATER 1FO

HEATER 1FP

HEATER 1FQ

HEATER 1FR

HEATER 1FS

HEATER 1FT

HEATER 1FU

HEATER 1FV

HEATER 1FW

HEATER 1FX

HEATER 1FY

HEATER 1FZ

HEATER 1GA

HEATER 1GB

HEATER 1GC

HEATER 1GD

HEATER 1GE

HEATER 1GF

HEATER 1GG

HEATER 1GH

HEATER 1GI

HEATER 1GJ

HEATER 1GK

HEATER 1GL

HEATER 1GM

HEATER 1GN

HEATER 1GO

HEATER 1GP

HEATER 1GQ

HEATER 1GR

HEATER 1GS

HEATER 1GT

HEATER 1GU

HEATER 1GV

HEATER 1GW

HEATER 1GX

HEATER 1GY

HEATER 1GZ

HEATER 1HA

HEATER 1HB

HEATER 1HC

HEATER 1HD

HEATER 1HE

HEATER 1HF

HEATER 1HG

HEATER 1HH

HEATER 1HI

HEATER 1HJ

HEATER 1HK

HEATER 1HL

HEATER 1HM

HEATER 1HN

HEATER 1HO

HEATER 1HP

HEATER 1HQ

HEATER 1HR

HEATER 1HS

HEATER 1HT

HEATER 1HU

HEATER 1HV

HEATER 1HW

HEATER 1HX

HEATER 1HY

HEATER 1HZ

HEATER 1IA

HEATER 1IB

HEATER 1IC

HEATER 1ID

HEATER 1IE

HEATER 1IF

HEATER 1IG

HEATER 1IH

HEATER 1II

HEATER 1IJ

HEATER 1IK

HEATER 1IL

HEATER 1IM

HEATER 1IN

HEATER 1IO

HEATER 1IP

HEATER 1IQ

HEATER 1IR

HEATER 1IS

HEATER 1IT

HEATER 1IU

HEATER 1IV

HEATER 1IW

HEATER 1IX

HEATER 1IY

HEATER 1IZ

HEATER 1JA

HEATER 1JB

HEATER 1JC

HEATER 1JD

HEATER 1JE

[illegible]

Figure 10-39. Flow Diagram of Moisture Separator-Reheater Drain System (HS)

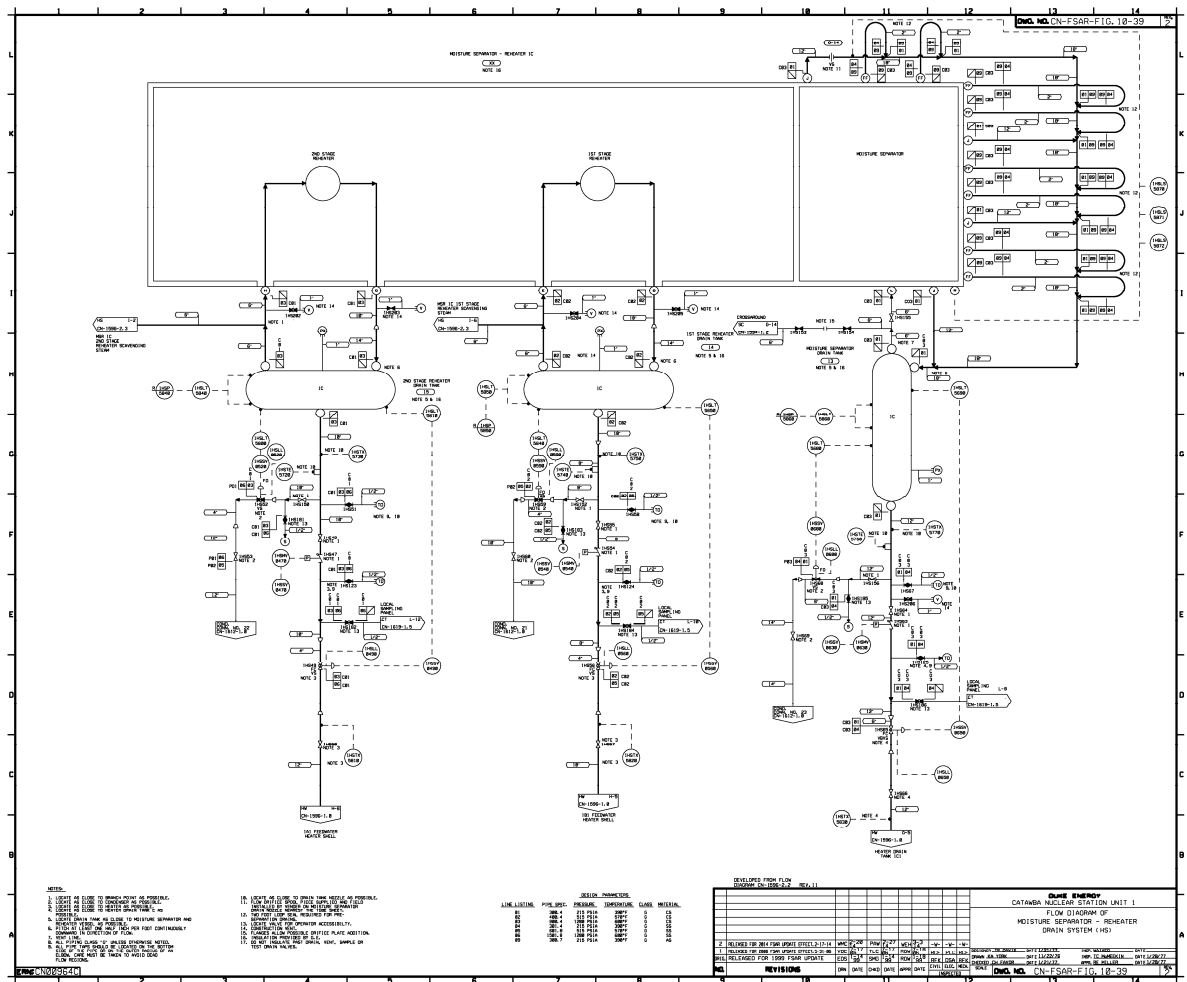


Figure 10-40. Flow Diagram of Moisture Separator-Reheater Drain System (HS)

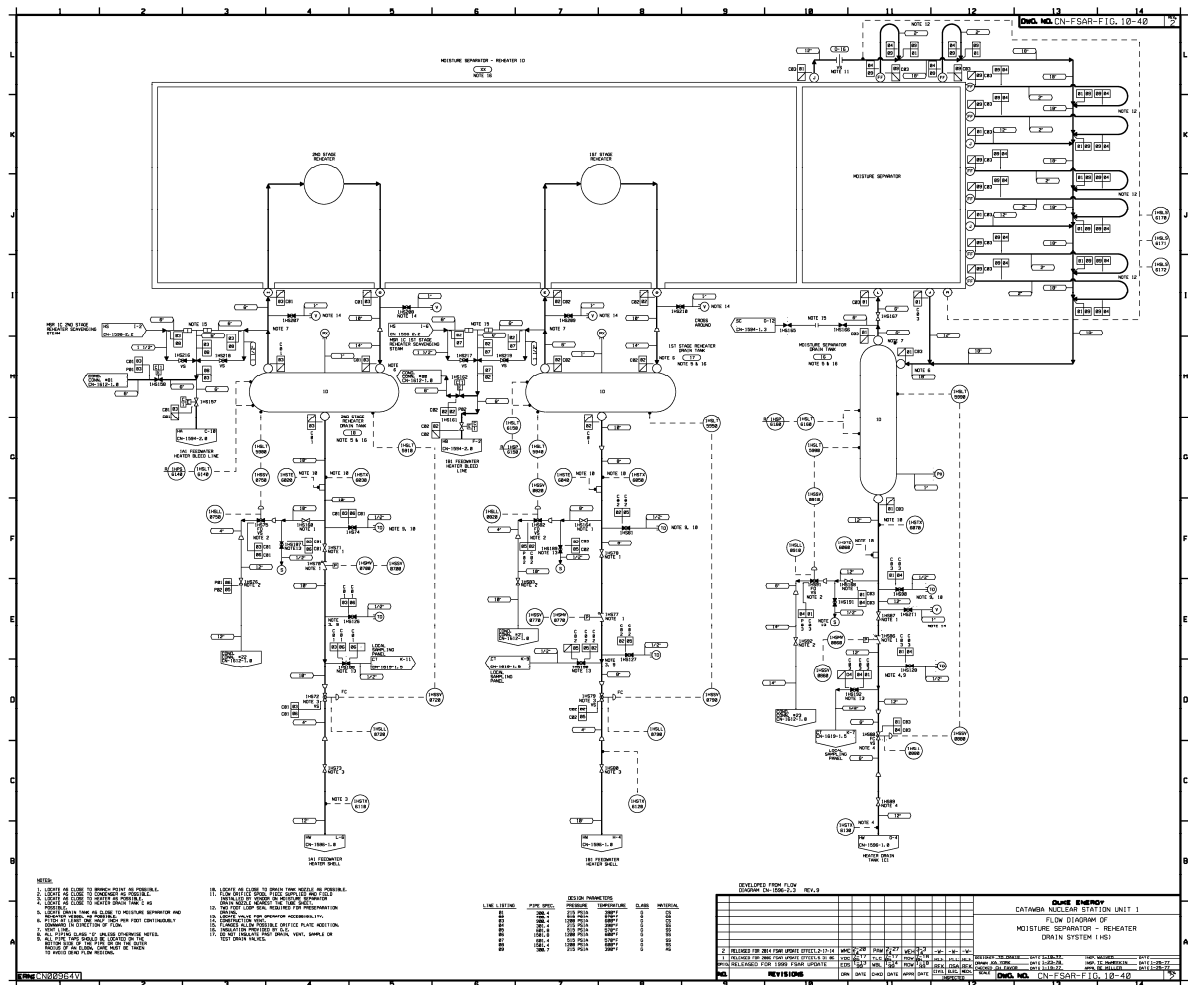
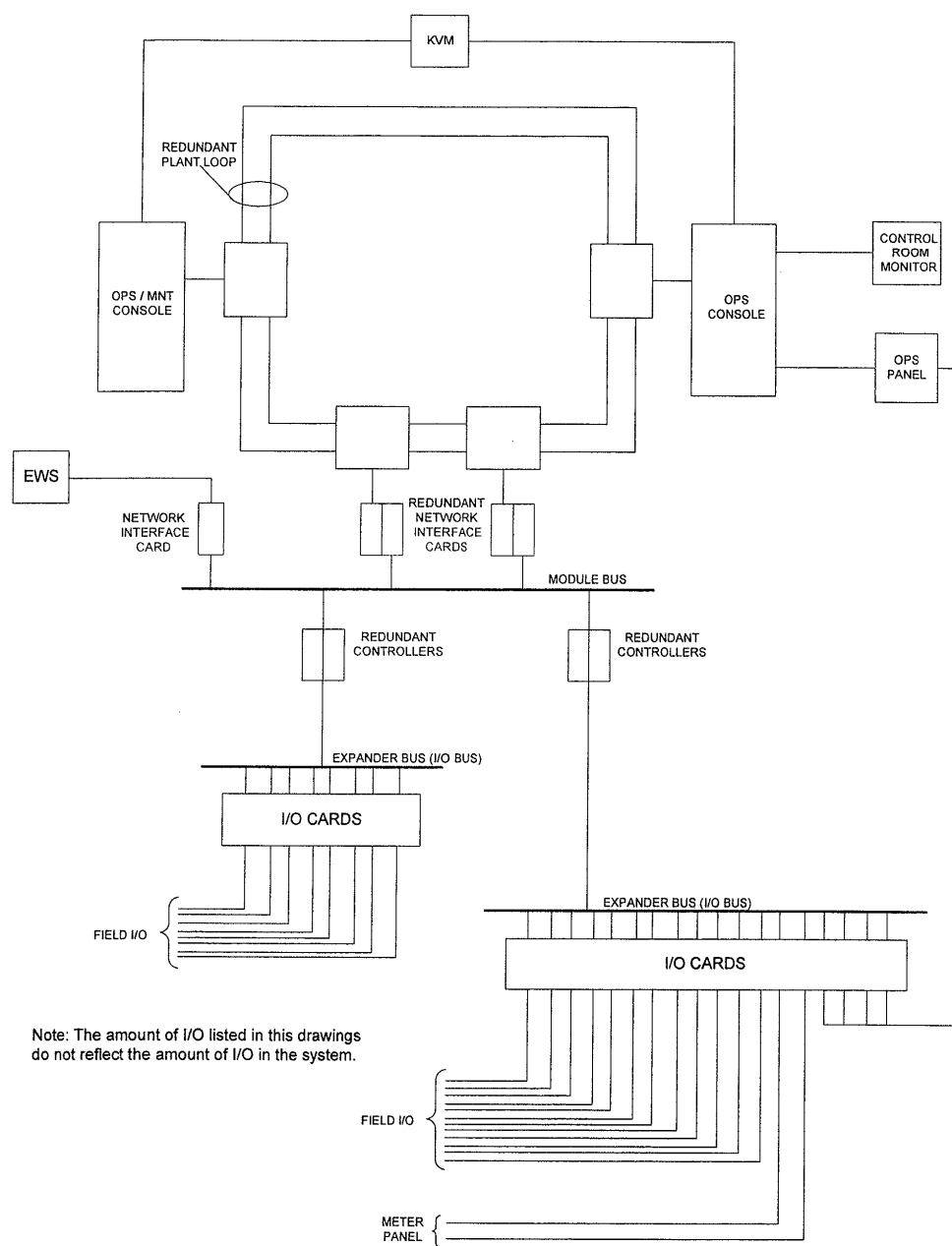


Figure 10-41. System Overview of the Turbine Control System



Doc. No. CN-FSAR-FIG. 10-42

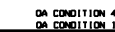


Figure 10-43. Unit 1 - Heat Balance 3479 MWt Reactor Thermal Power

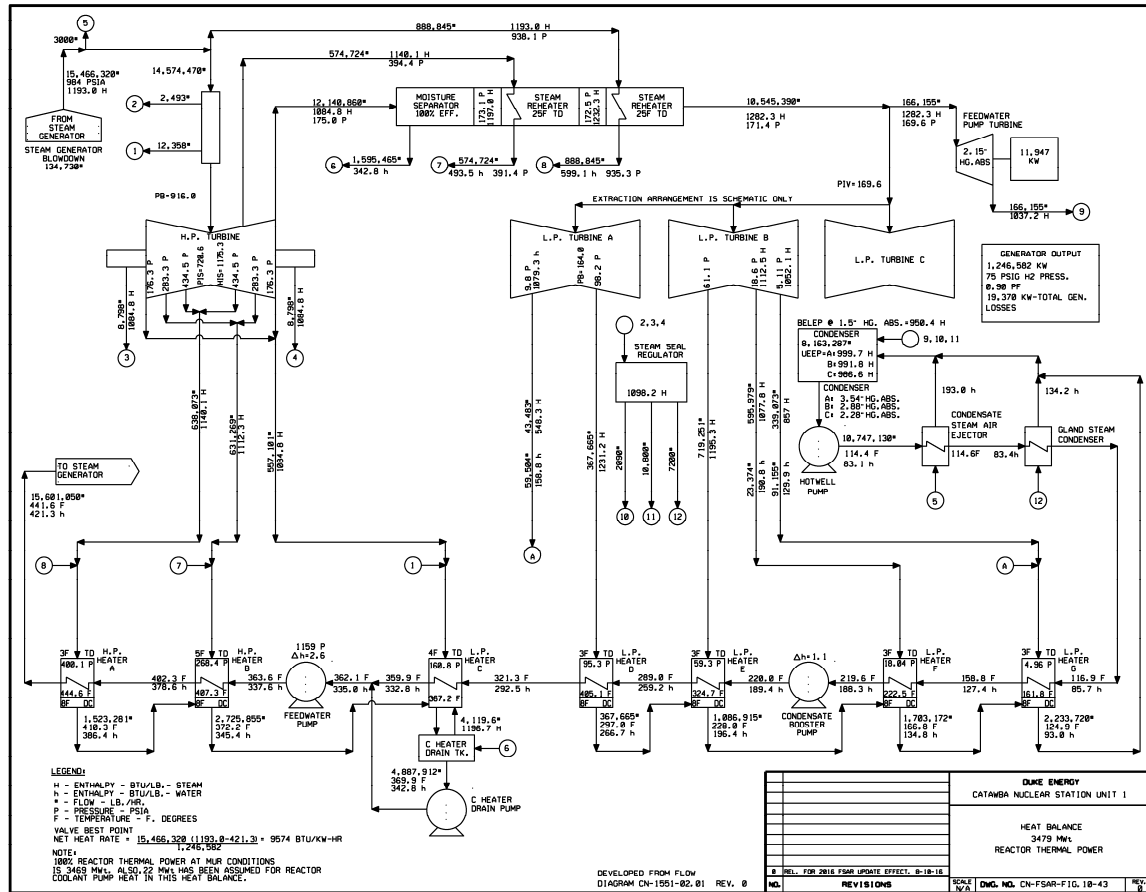


Figure 10-44. Unit 2 - Heat Balance 100% MWt

