

## Appendix 9B. Figures

Architectural drawings of the Fuel Building at Catawba Nuclear Station. The drawings include:

- PLAN # R-514-0**: A detailed floor plan of the main building, showing various rooms, equipment, and structural details. It includes a grid system with letters A through T and numbers 1 through 24.
- PLAN # R-605-0**: A detailed floor plan of a lower level or specific section, showing equipment and structural details. It includes a grid system with letters A through T and numbers 1 through 24.
- SECTION # R-514-0**: A cross-section of the building, showing the fuel storage area and structural elements. It includes a grid system with letters A through T and numbers 1 through 24.
- North Arrow**: A north arrow pointing towards the top left of the page.
- Title Block**: A title block at the bottom right reading "FUEL BUILDING - GENERAL ARRANGEMENT" and "CATAWBA NUCLEAR STATION".

Figure 9-2. Fuel Building - Longitudinal Section Thru Fuel Receiving

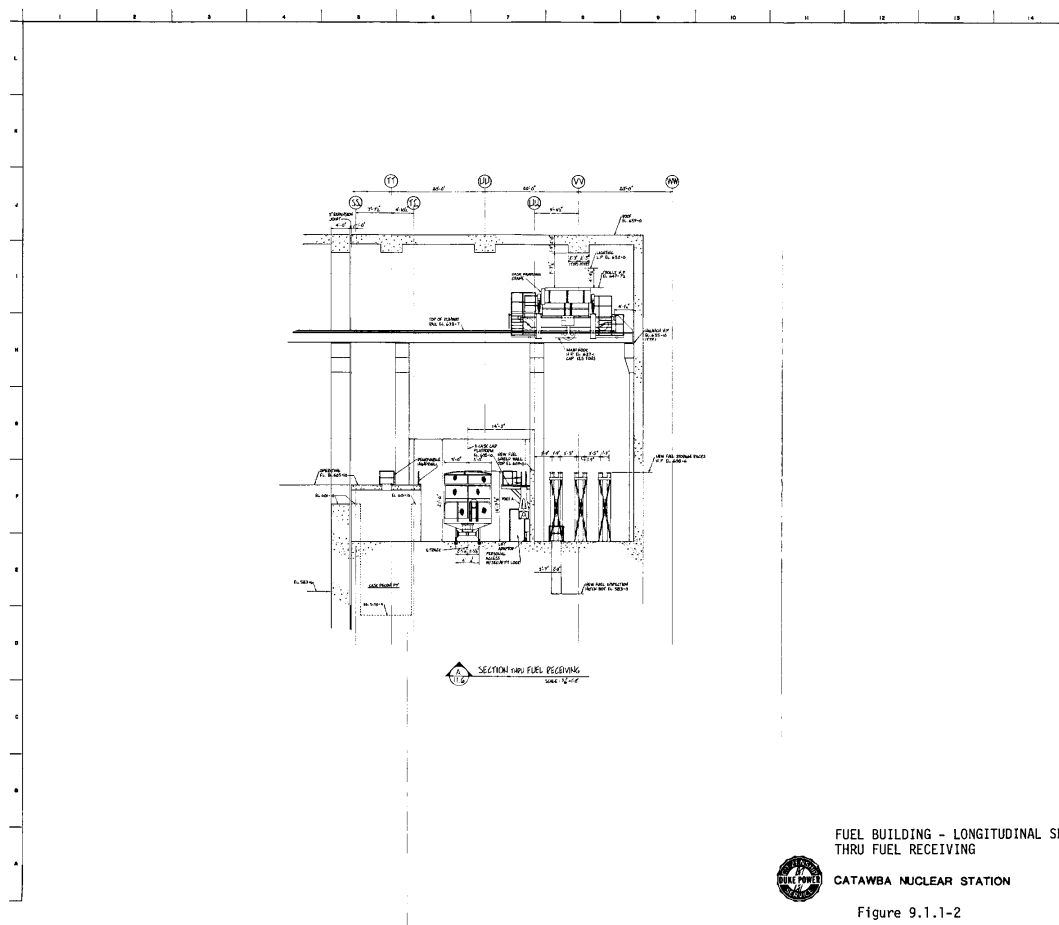
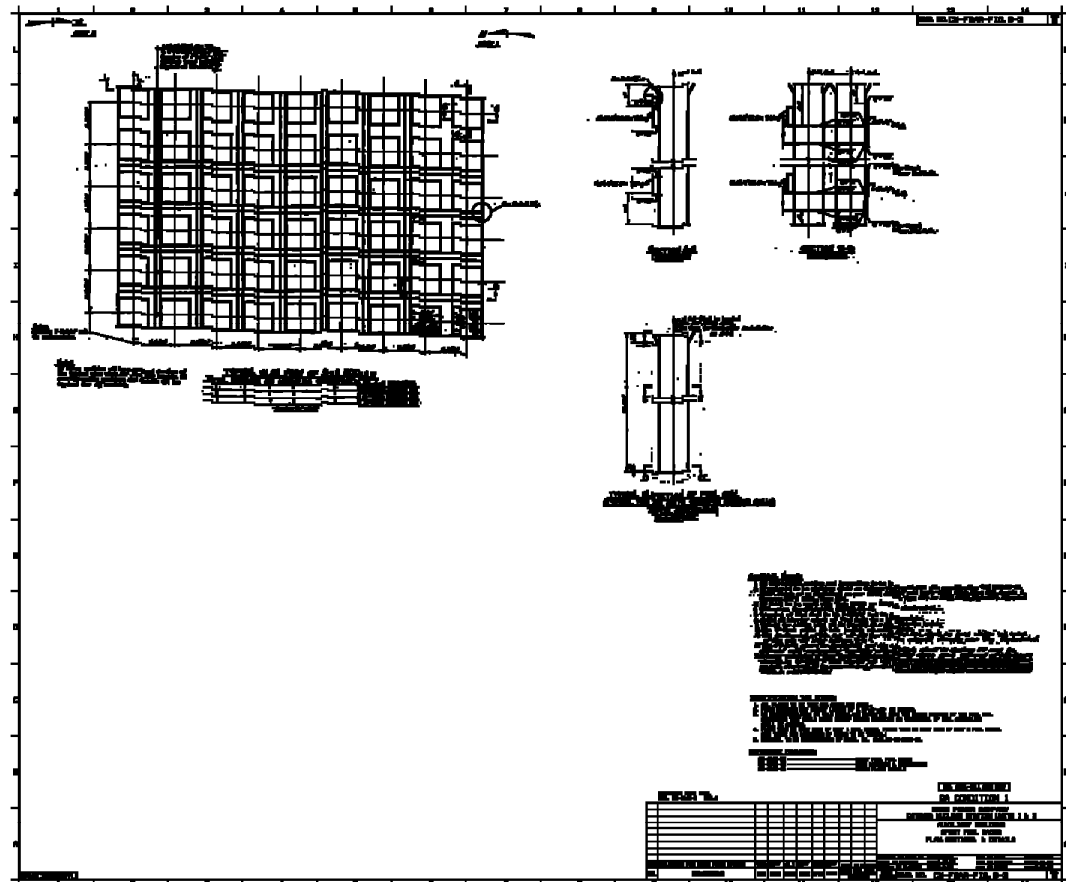


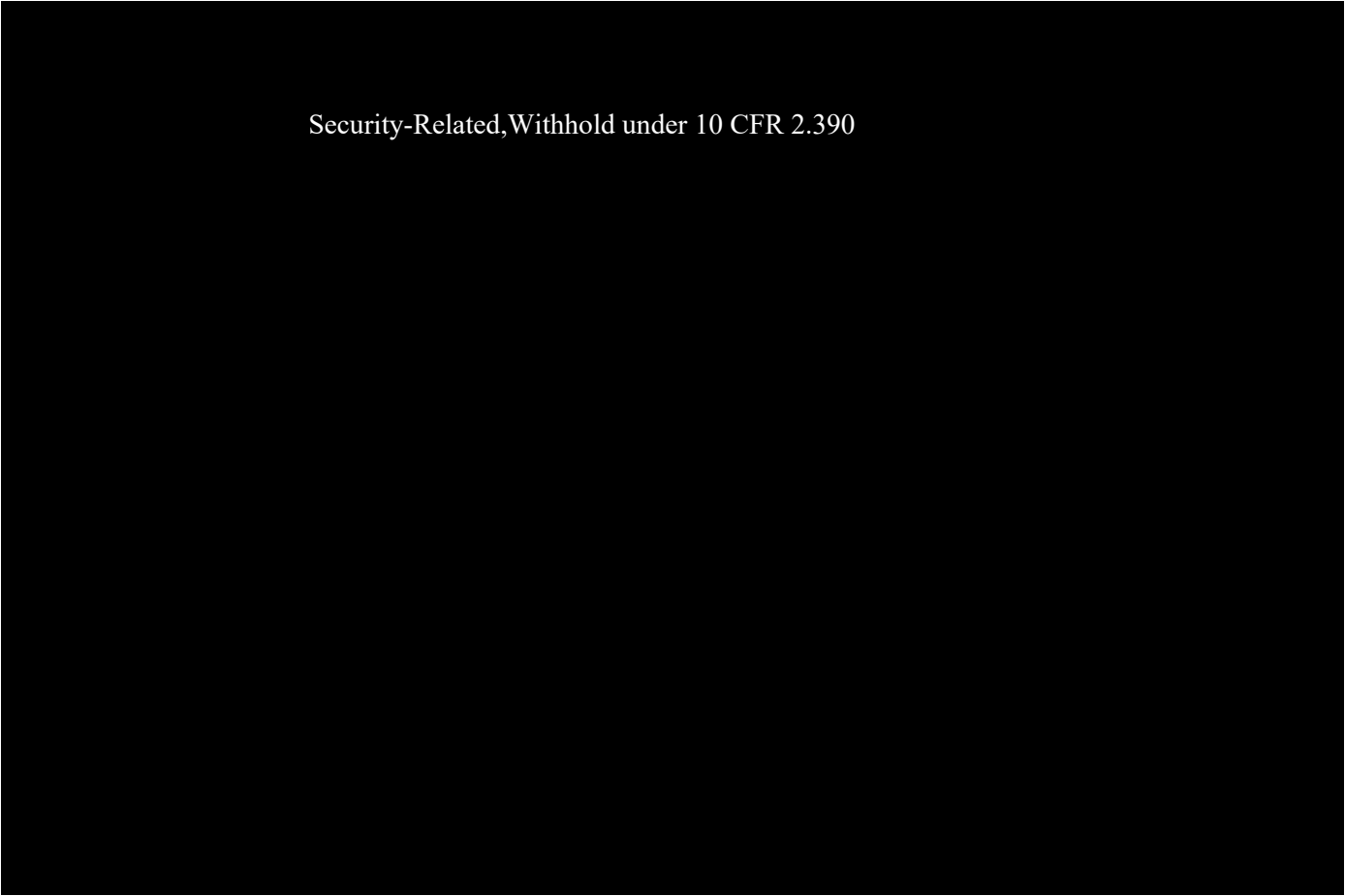
Figure 9-3. Fuel Pool Racks





**Figure 9-4. Fuel Building Plan @ El. 605+10**

Security-Related, Withhold under 10 CFR 2.390



**Figure 9-5. Fuel Building - Longitudinal Section Thru Fuel Pool**

Security-Related, Withhold under 10 CFR 2.390

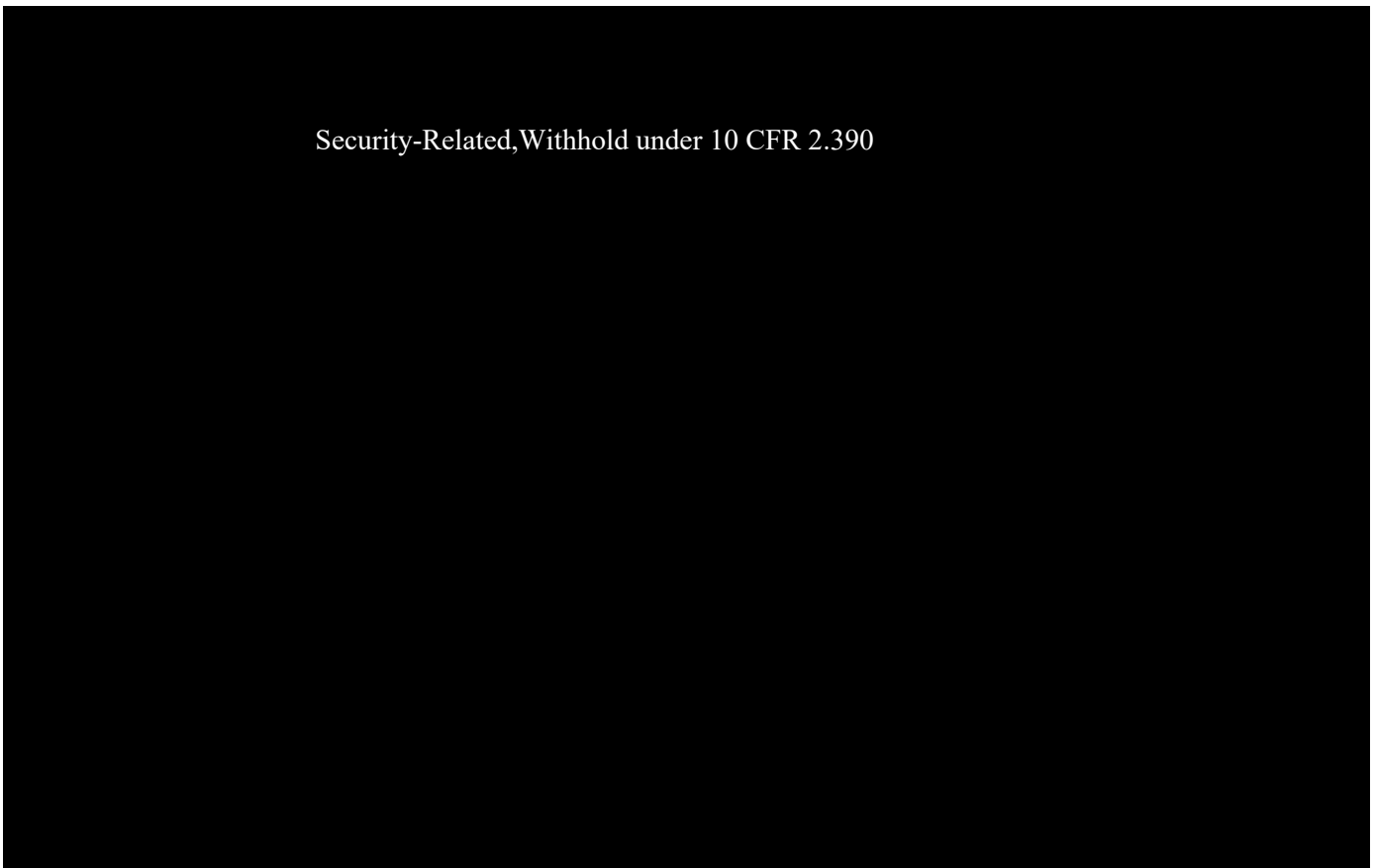
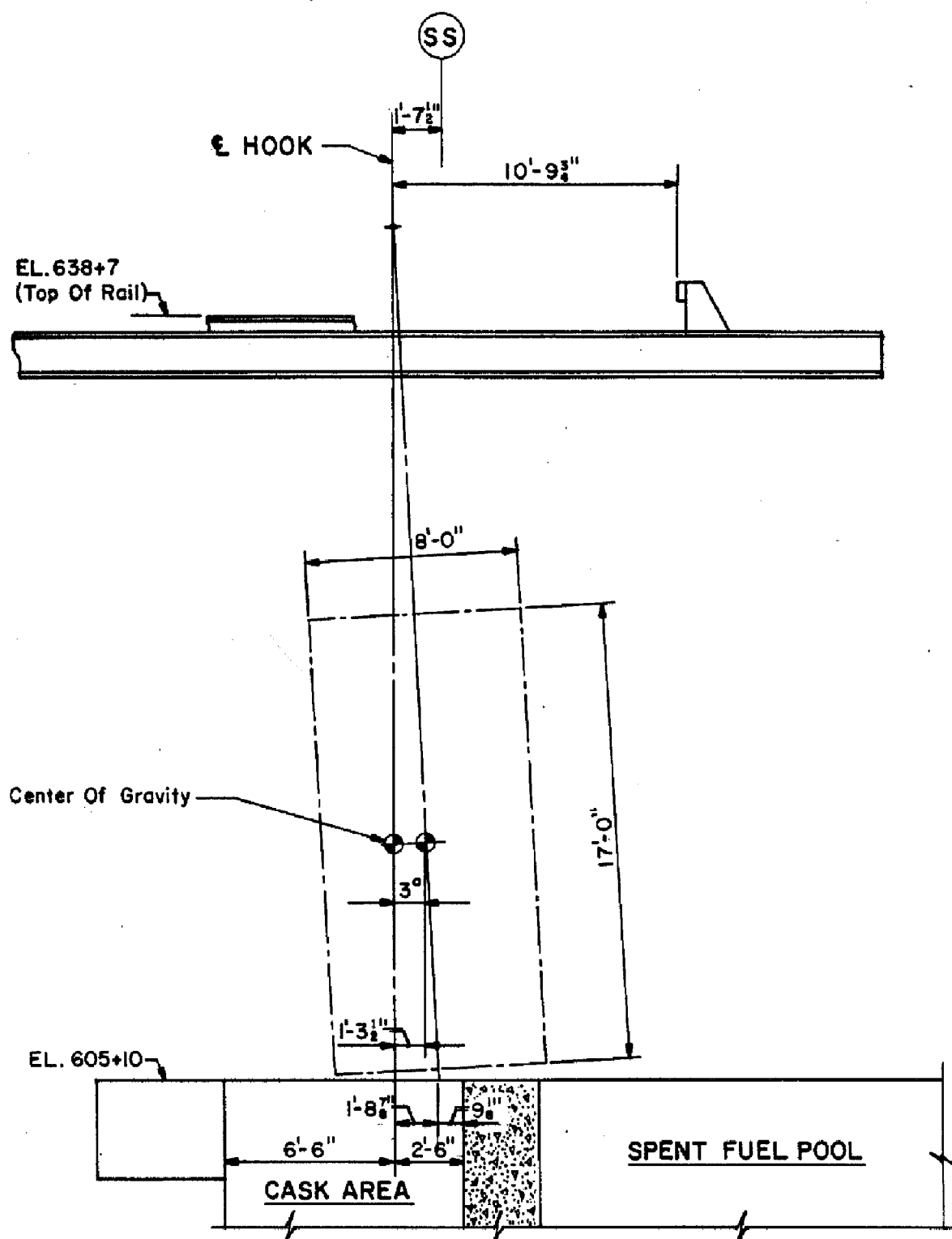
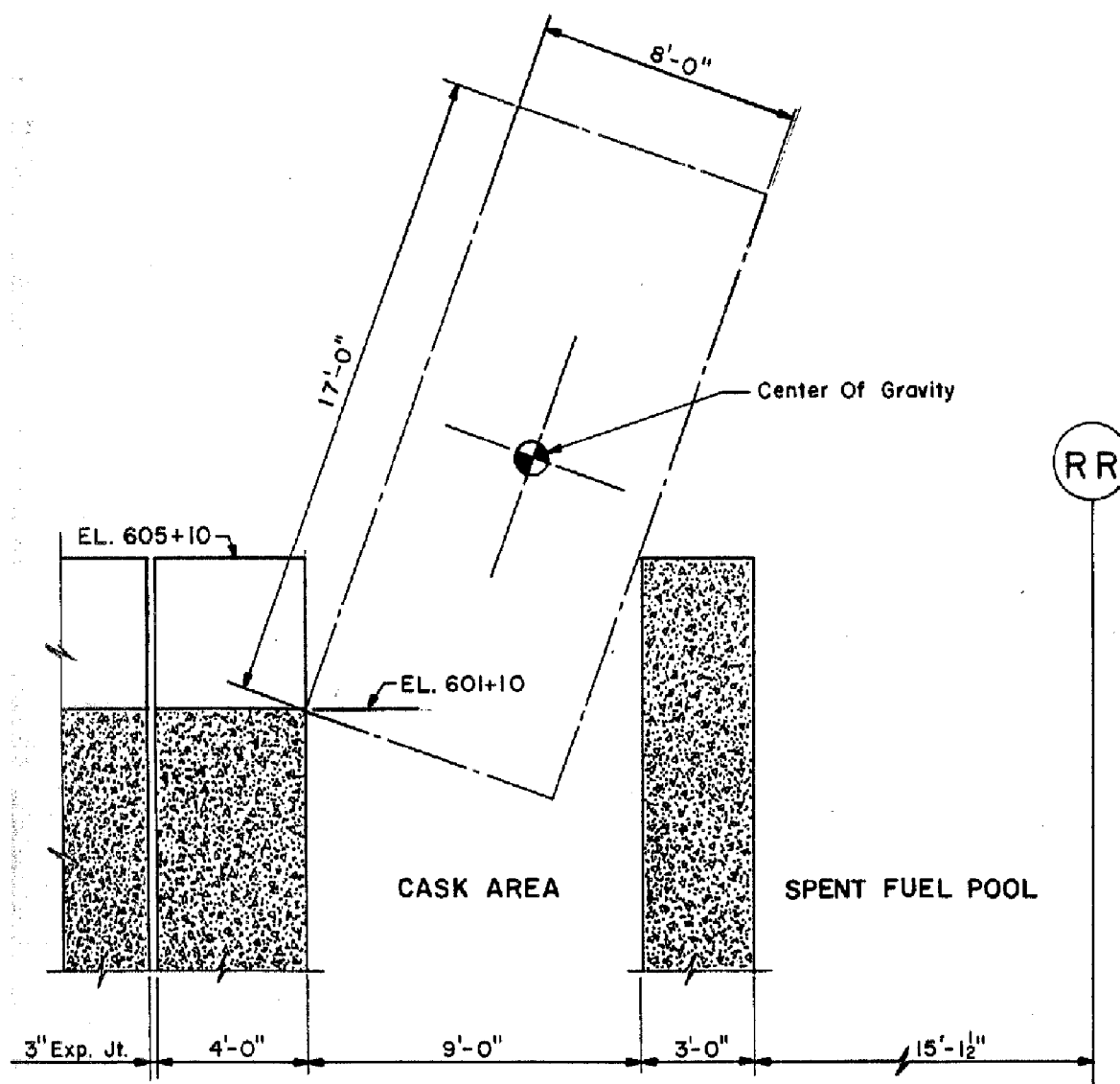


Figure 9-6. Cask Drop Evaluation



(22 OCT 2001)

Figure 9-7. Cask Drop Evaluation



**Figure 9-8. Spacer for Spent Fuel Storage**

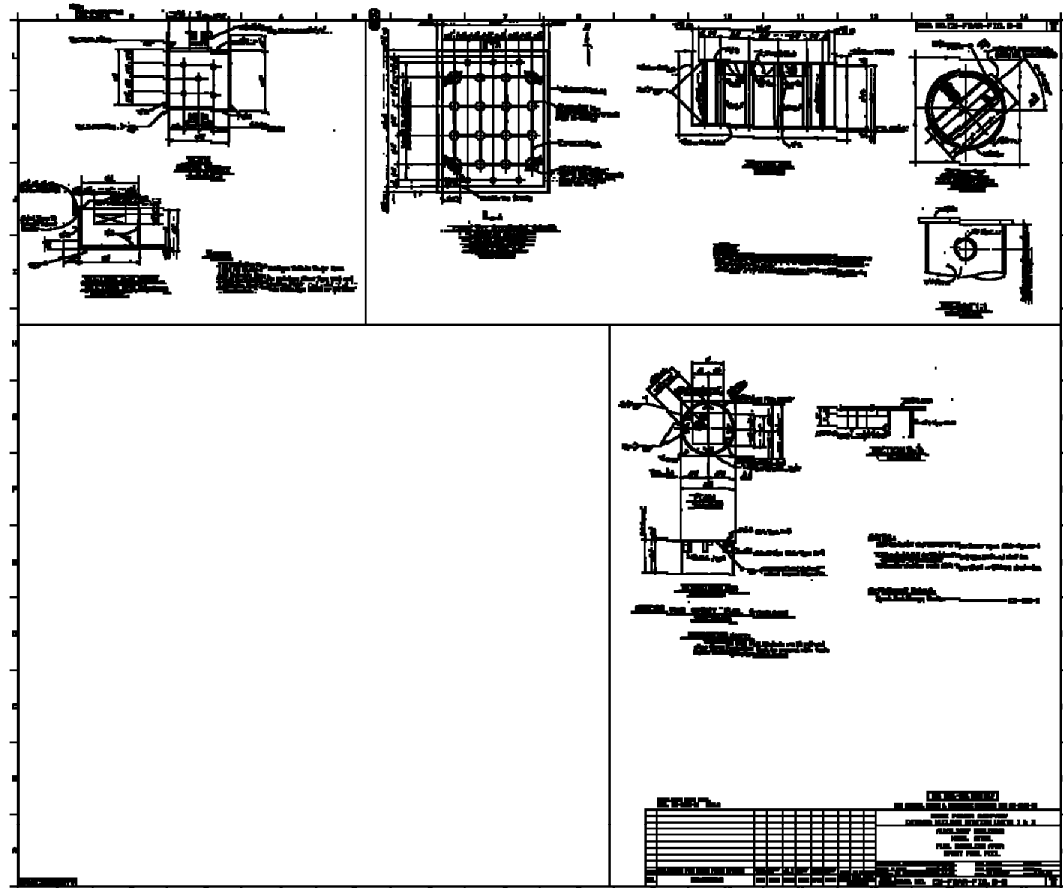
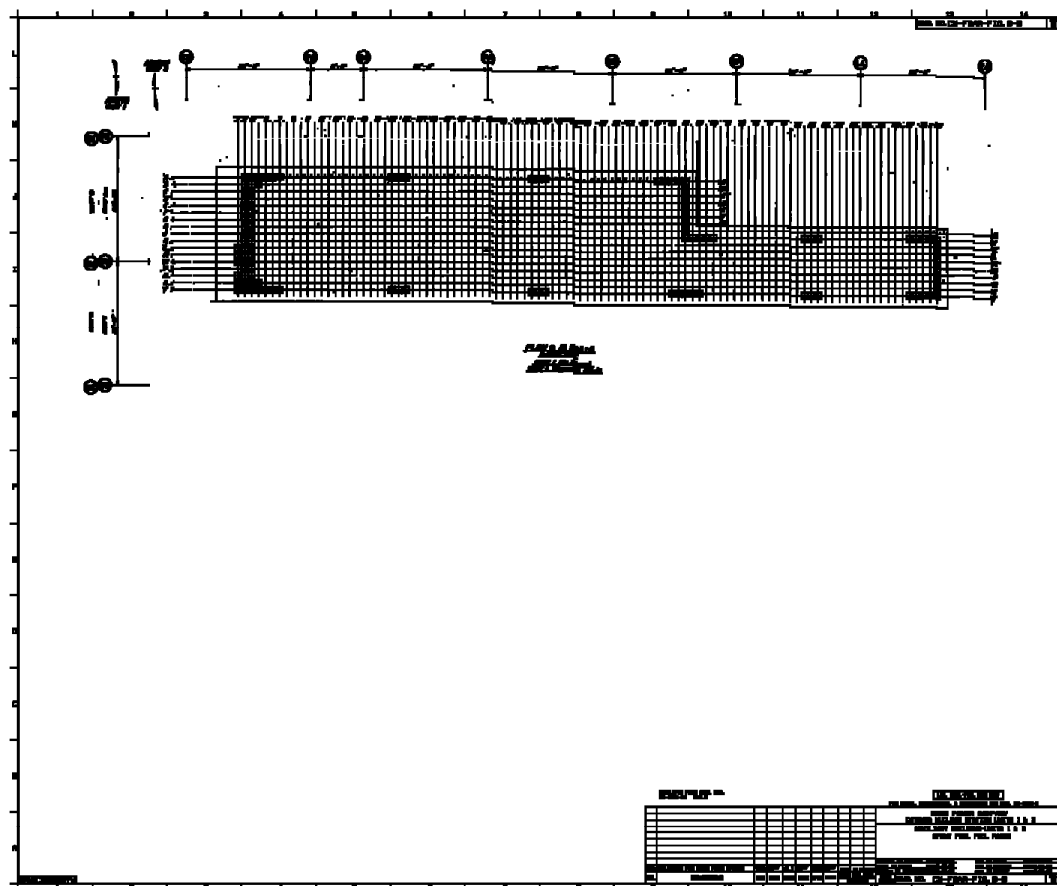
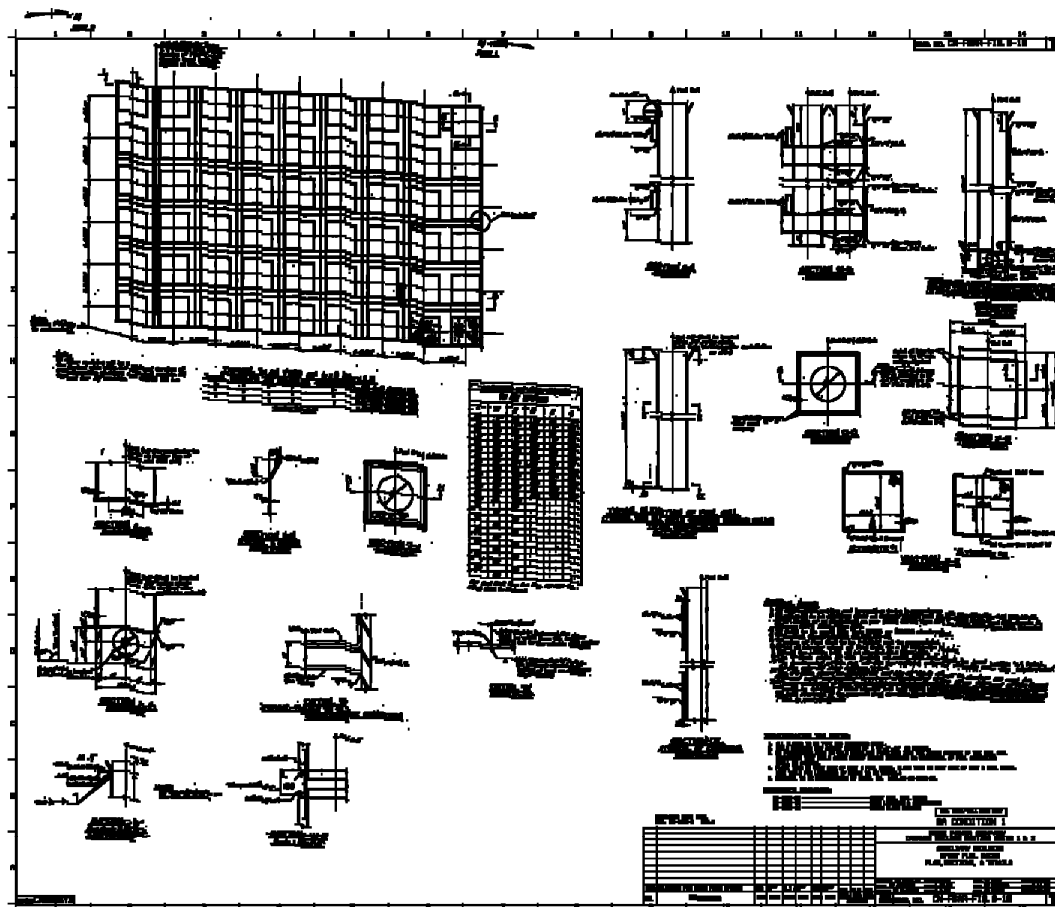


Figure 9-9. Spent Fuel Pool Racks - General Arrangement



(22 OCT 2001)

Figure 9-10. Spent Fuel Pool Racks - Details



The diagram is a complex electrical schematic of a power plant, likely a steam turbine generator. It features several main sections:

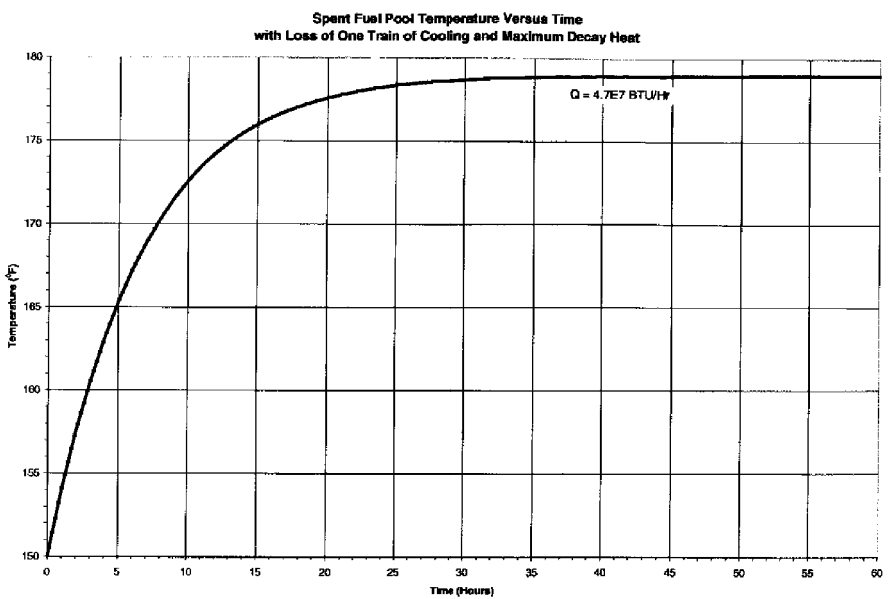
- Top Section:** Contains the main power generation components, including a large turbine/generator unit (labeled '1') and associated control and monitoring systems. It includes various relays, switches, and interlocking circuits.
- Middle Section:** Shows the distribution and control systems for the plant, including a large transformer (labeled '2') and various control units (labeled '3', '4', '5', etc.).
- Bottom Section:** Includes the control room and associated equipment, such as the 'CONTROL ROOM' and 'CONTROL PANEL'. It shows the interface between the operator and the plant's control systems.
- Legend:** Located at the bottom left, it defines the symbols used in the diagram, including 'ON CONDITION 1', 'ON CONDITION 2', 'CONTROL ROOM', and 'CONTROL PANEL'.
- Annotations:** Numerous callouts and labels are present throughout the diagram, providing specific details about the components and their connections. These include labels like '1A', '1B', '1C', '1D', '1E', '1F', '1G', '1H', '1I', '1J', '1K', '1L', '1M', '1N', '1O', '1P', '1Q', '1R', '1S', '1T', '1U', '1V', '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', '1CC', '1CD', '1CE', '1CF', '1CG', '1CH', '1CI', '1CJ', '1CK', '1CL', '1CM', '1CN', '1CO', '1CP', '1CQ', '1CR', '1CS', '1CT', '1CU', '1CV', '1CW', '1CX', '1CY', '1CZ', '1DA', '1DB', '1DC', '1DD', '1DE', '1DF', '1DG', '1DH', '1DI', '1DJ', '1DK', '1DL', '1DM', '1DN', '1DO', '1DP', '1DQ', '1DR', '1DS', '1DT', '1DU', '1DV', '1DW', '1DX', '1DY', '1DZ', '1EA', '1EB', '1EC', '1ED', '1EE', '1EF', '1EG', '1EH', '1EI', '1EJ', '1EK', '1EL', '1EM', '1EN', '1EO', '1EP', '1EQ', '1ER', '1ES', '1ET', '1EU', '1EV', '1EW', '1EX', '1EY', '1EZ', '1FA', '1FB', '1FC', '1FD', '1FE', '1FF', '1FG', '1FH', '1FI', '1FJ', '1FK', '1FL', '1FM', '1FN', '1FO', '1FP', '1FQ', '1FR', '1FS', '1FT', '1FU', '1FV', '1FW', '1FX', '1FY', '1FZ', '1GA', '1GB', '1GC', '1GD', '1GE', '1GF', '1GG', '1GH', '1GI', '1GJ', '1GK', '1GL', '1GM', '1GN', '1GO', '1GP', '1GQ', '1GR', '1GS', '1GT', '1GU', '1GV', '1GW', '1GX', '1GY', '1GZ', '1HA', '1HB', '1HC', '1HD', '1HE', '1HF', '1HG', '1HH', '1HI', '1HJ', '1HK', '1HL', '1HM', '1HN', '1HO', '1HP', '1HQ', '1HR', '1HS', '1HT', '1HU', '1HV', '1HW', '1HX', '1HY', '1HZ', '1IA', '1IB', '1IC', '1ID', '1IE', '1IF', '1IG', '1IH', '1II', '1IJ', '1IK', '1IL', '1IM', '1IN', '1IO', '1IP', '1IQ', '1IR', '1IS', '1IT', '1IU', '1IV', '1IW', '1IX', '1IY', '1IZ', '1JA', '1JB', '1JC', '1JD', '1JE', '1JF', '1JG', '1JH', '1JI', '1JJ', '1JK', '1JL', '1JM', '1JN', '1JO', '1JP', '1JQ', '1JR', '1JS', '1JT', '1JU', '1JV', '1JW', '1JX', '1JY', '1JZ', '1KA', '1KB', '1KC', '1KD', '1KE', '1KF', '1KG', '1KH', '1KI', '1KJ', '1KK', '1KL', '1KM', '1KN', '1KO', '1KP', '1KQ', '1KR', '1KS', '1KT', '1KU', '1KV', '1KW', '1KX', '1KY', '1KZ', '1LA', '1LB', '1LC', '1LD', '1LE', '1LF', '1LG', '1LH', '1LI', '1LJ', '1LK', '1LL', '1LM', '1LN', '1LO', '1LP', '1LQ', '1LR', '1LS', '1LT', '1LU', '1LV', '1LW', '1LX', '1LY', '1LZ', '1MA', '1MB', '1MC', '1MD', '1ME', '1MF', '1MG', '1MH', '1MI', '1MJ', '1MK', '1ML', '1MM', '1MN', '1MO', '1MP', '1MQ', '1MR', '1MS', '1MT', '1MU', '1MV', '1MW', '1MX', '1MY', '1MZ', '1NA', '1NB', '1NC', '1ND', '1NE', '1NF', '1NG', '1NH', '1NI', '1NJ', '1NK', '1NL', '1NM', '1NN', '1NO', '1NP', '1NQ', '1NR', '1NS', '1NT', '1NU', '1NV', '1NW', '1NX', '1NY', '1NZ', '1OA', '1OB', '1OC', '1OD', '1OE', '1OF', '1OG', '1OH', '1OI', '1OJ', '1OK', '1OL', '1OM', '1ON', '1OO', '1OP', '1OQ', '1OR', '1OS', '1OT', '1OU', '1OV', '1OW', '1OX', '1OY', '1OZ', '1PA', '1PB', '1PC', '1PD', '1PE', '1PF', '1PG', '1PH', '1PI', '1PJ', '1PK', '1PL', '1PM', '1PN', '1PO', '1PP', '1PQ', '1PR', '1PS', '1PT', '1PU', '1PV', '1PW', '1PX', '1PY', '1PZ', '1QA', '1QB', '1QC', '1QD', '1QE', '1QF', '1QG', '1QH', '1QI', '1QJ', '1QK', '1QL', '1QM', '1QN', '1QO', '1QP', '1QQ', '1QR', '1QS', '1QT', '1QU', '1QV', '1QW', '1QX', '1QY', '1QZ', '1RA', '1RB', '1RC', '1RD', '1RE', '1RF', '1RG', '1RH', '1RI', '1RJ', '1RK', '1RL', '1RM', '1RN', '1RO', '1RP', '1RQ', '1RR', '1RS', '1RT', '1RU', '1RV', '1RW', '1RX', '1RY', '1RZ', '1SA', '1SB', '1SC', '1SD', '1SE', '1SF', '1SG', '1SH', '1SI', '1SJ', '1SK', '1SL', '1SM', '1SN', '1SO', '1SP', '1SQ', '1SR', '1SS', '1ST', '1SU', '1SV', '1SW', '1SX', '1SY', '1SZ', '1TA', '1TB', '1TC', '1TD', '1TE', '1TF', '1TG', '1TH', '1TI', '1TJ', '1TK', '1TL', '1TM', '1TN', '1TO', '1TP', '1TQ', '1TR', '1TS', '1TT', '1TU', '1TV', '1TW', '1TX', '1TY', '1TZ', '1UA', '1UB', '1UC', '1UD', '1UE', '1UF', '1UG', '1UH', '1UI', '1UJ', '1UK', '1UL', '1UM', '1UN', '1UO', '1UP', '1UQ', '1UR', '1US', '1UT', '1UU', '1UV', '1UW', '1UX', '1UY', '1UZ', '1VA', '1VB', '1VC', '1VD', '1VE', '1VF', '1VG', '1VH', '1VI', '1VJ', '1VK', '1VL', '1VM', '1VN', '1VO', '1VP', '1VQ', '1VR', '1VS', '1VT', '1VU', '1VV', '1VW', '1VX', '1VY', '1VZ', '1WA', '1WB', '1WC', '1WD', '1WE', '1WF', '1WG', '1WH', '1WI', '1WJ', '1WK', '1WL', '1WM', '1WN', '1WO', '1WP', '1WQ', '1WR', '1WS', '1WT', '1WU', '1WV', '1WW', '1WX', '1WY', '1WZ', '1XA', '1XB', '1XC', '1XD', '1XE', '1XF', '1XG', '1XH', '1XI', '1XJ', '1XK', '1XL', '1XM', '1XN', '1XO', '1XP', '1XQ', '1XR', '1XS', '1XT', '1XU', '1XV', '1XW', '1XX', '1XY', '1XZ', '1YA', '1YB', '1YC', '1YD', '1YE', '1YF', '1YG', '1YH', '1YI', '1YJ', '1YK', '1YL', '1YM', '1YN', '1YO', '1YP', '1YQ', '1YR', '1YS', '1YT', '1YU', '1YV', '1YW', '1YX', '1YY', '1YZ', '1ZA', '1ZB', '1ZC', '1ZD', '1ZE', '1ZF', '1ZG', '1ZH', '1ZI', '1ZJ', '1ZK', '1ZL', '1ZM', '1ZN', '1ZO', '1ZP', '1ZQ', '1ZR', '1ZS', '1ZT', '1ZU', '1ZV', '1ZW', '1ZX', '1ZY', '1ZZ'.



Doc. No. CN-FSAR-F10, 9-12



Figure 9-13. Spent Fuel Pool Temperature Versus Time



1 BRIDGE  
2 TROLLEY  
3 HOIST MOTOR  
4 MAST  
5 AUXILIARY HOIST  
6 CONTROL CONSOLE

QA CONDITION 4

QUINCY ENERGY  
CATALINA BLACK PIER STATION

REACTOR  
WATER-JAR CP  
CRANE

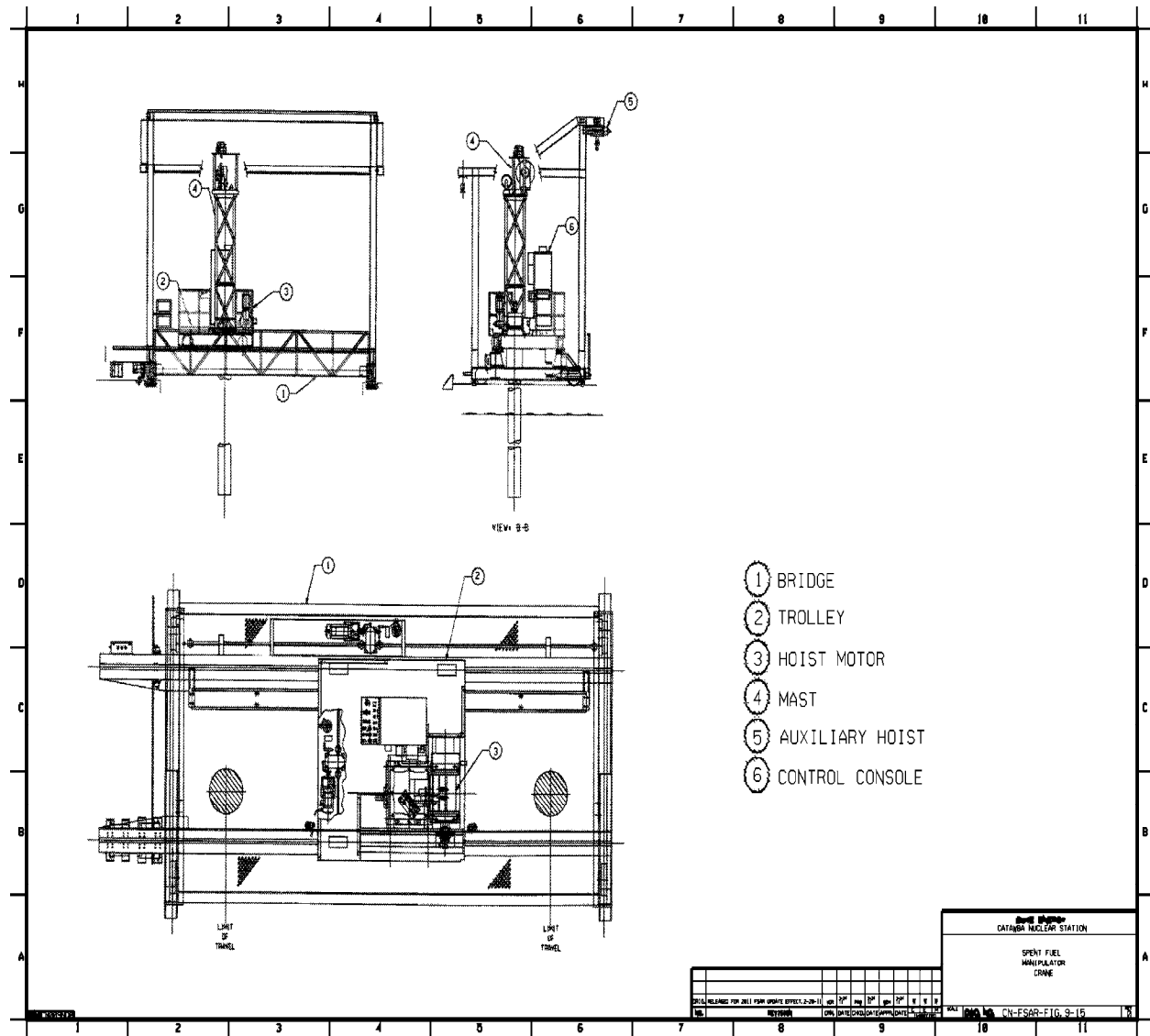
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ENCLOSURE 1

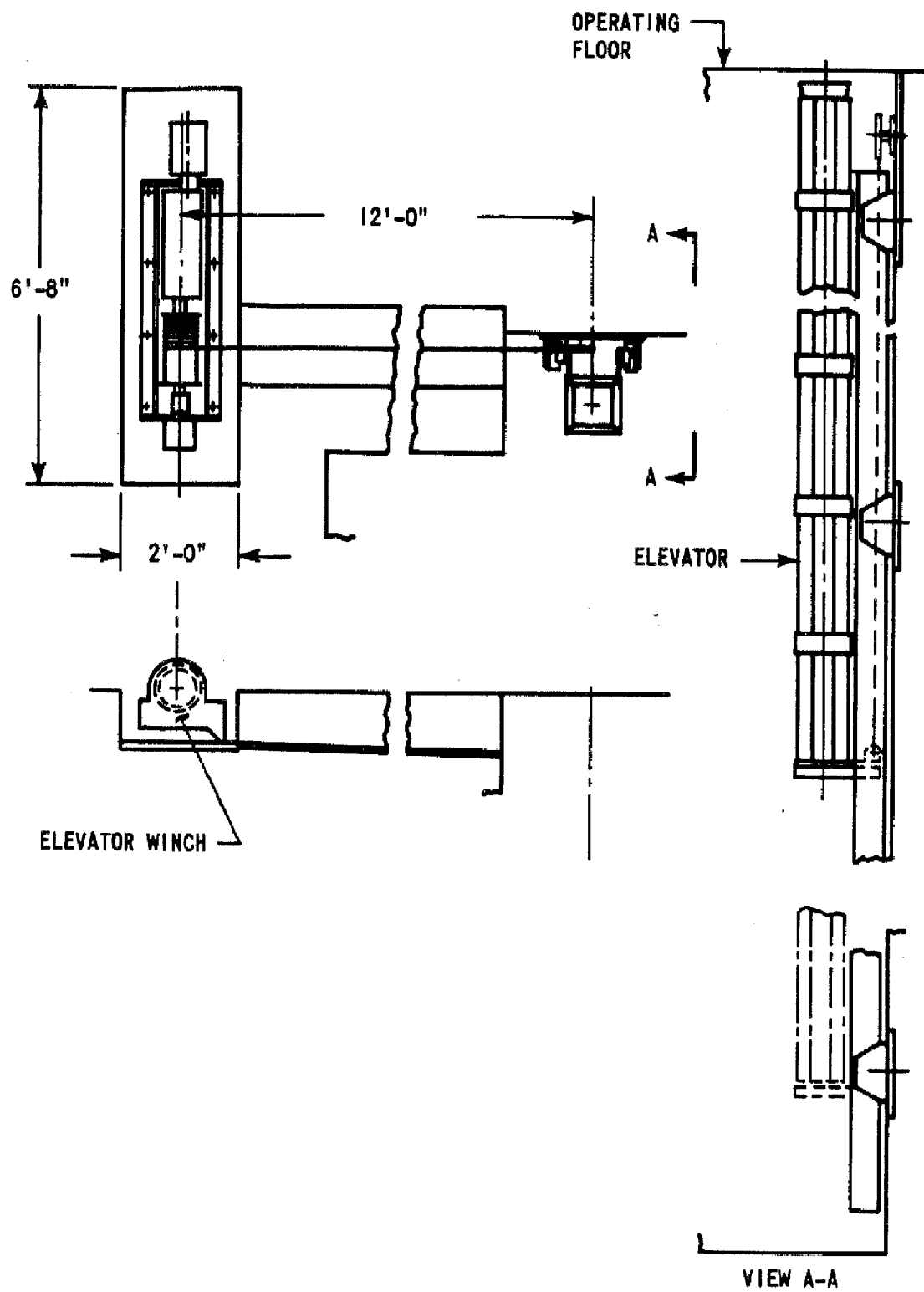
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Figure 9-15. Fuel Handling Machine



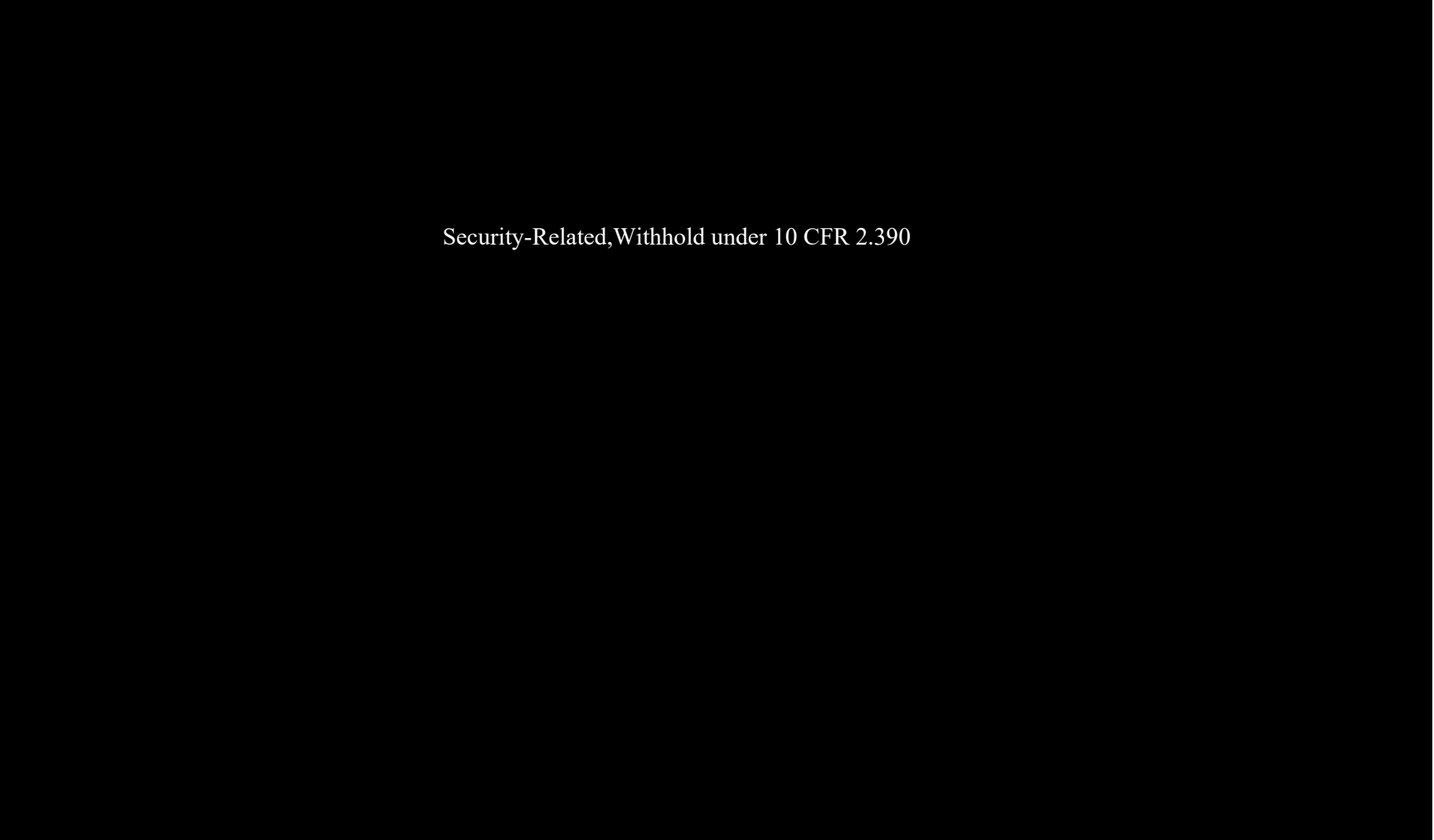
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Figure 9-16. New Fuel Elevator



**Figure 9-17. Fuel Transfer System**

Security-Related, Withhold under 10 CFR 2.390





**Figure 9-18. Deleted Per 1997 Update**

Figure 9-19. Reactor Vessel Head Lifting Device

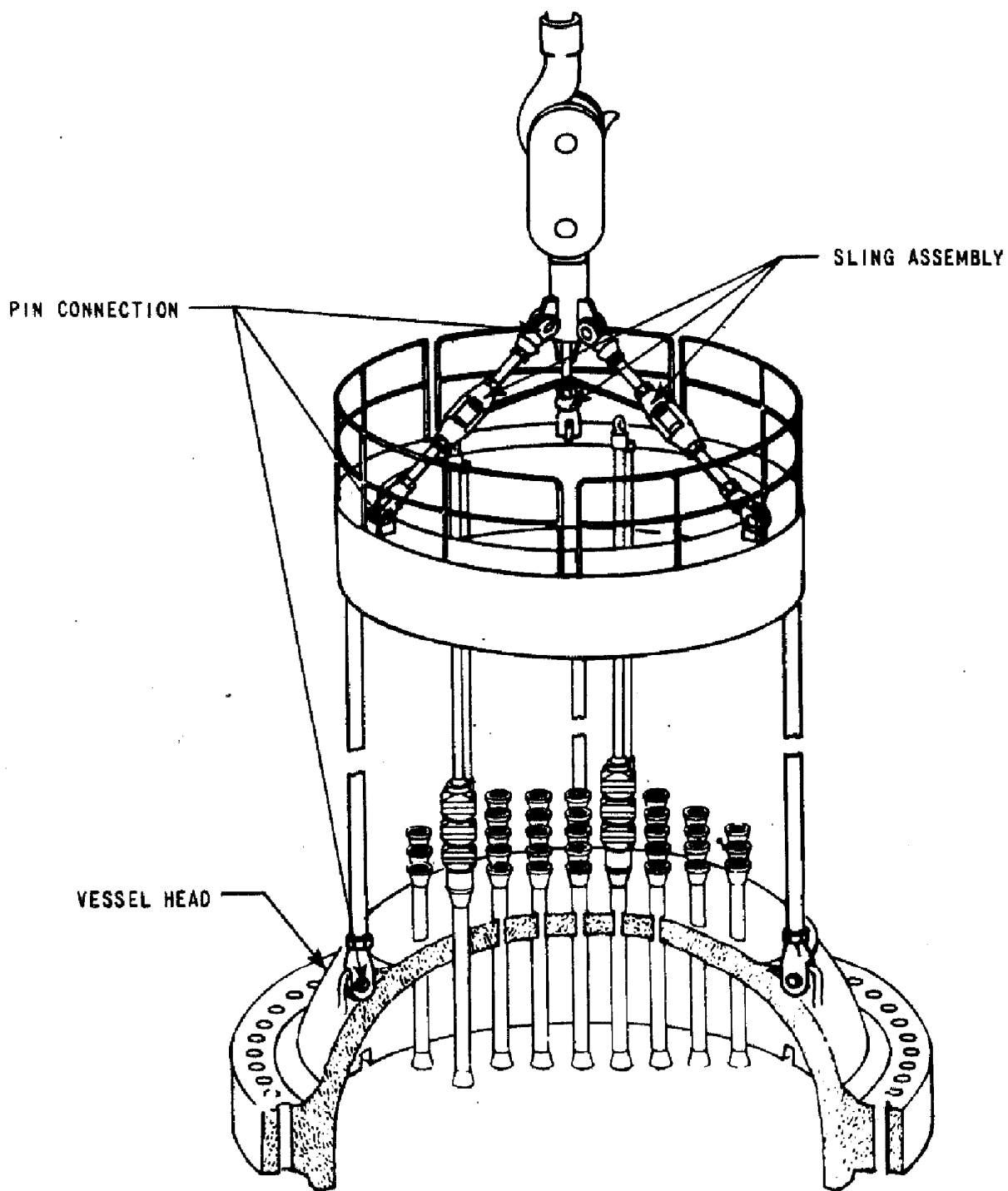


Figure 9-20. Reactor Internals Lifting Device

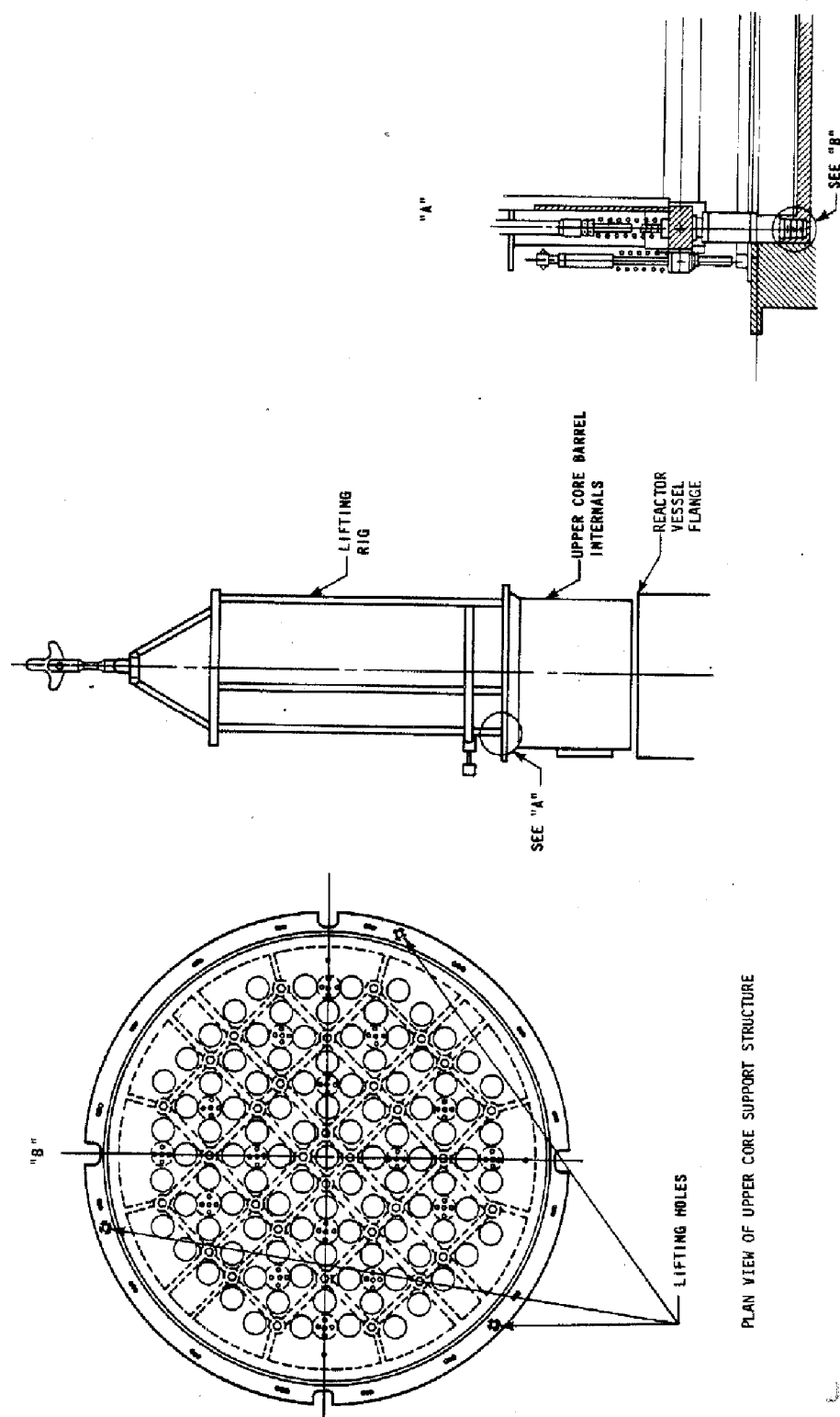
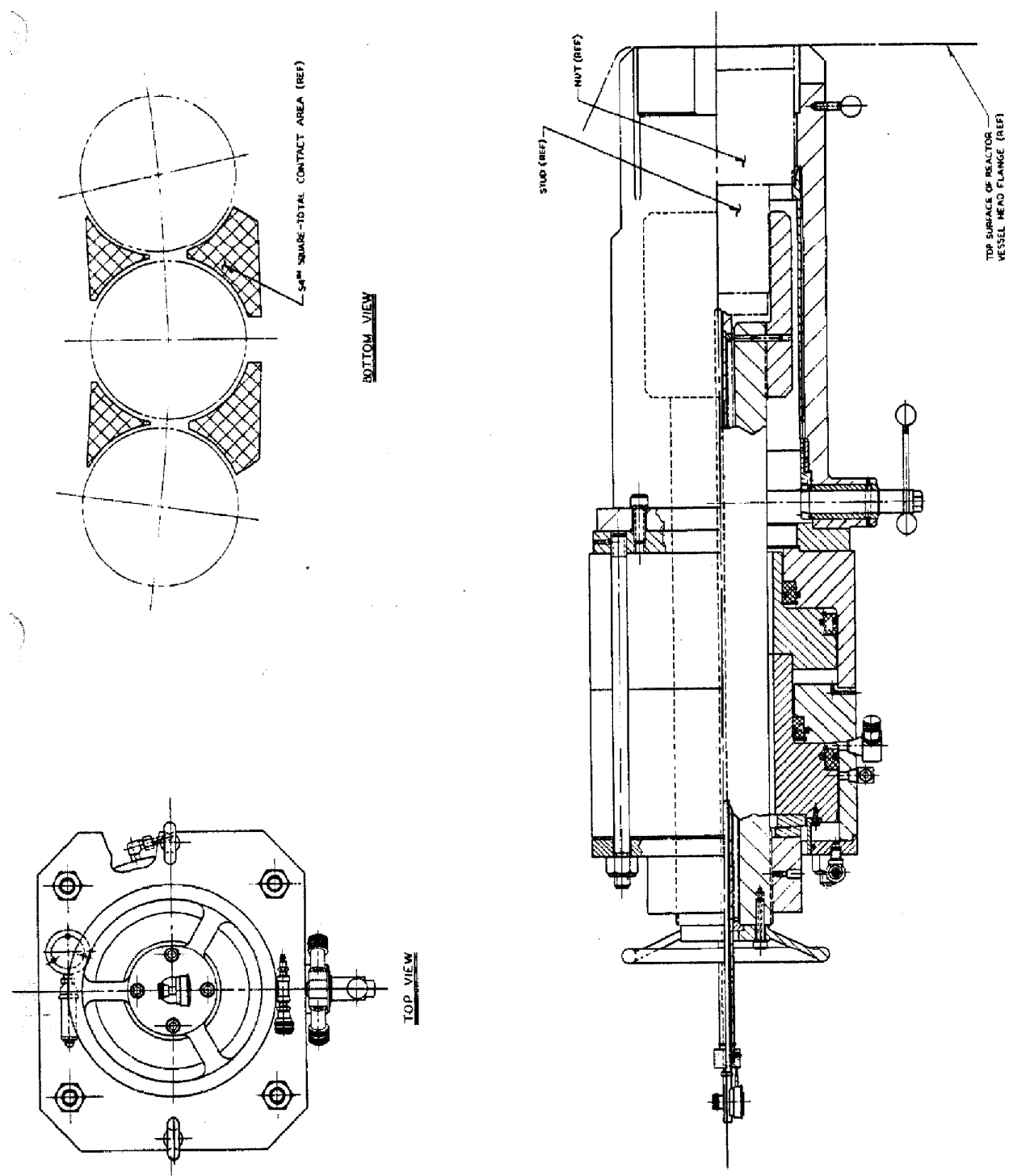


Figure 9-21. Reactor Vessel Stud Tensioner



**Legend:**

- Flow Direction: Indicated by arrows on lines.
- Control: Indicated by a circle with a dot.
- Instrumentation: Indicated by a circle with a letter and number.
- Valve: Indicated by a circle with a cross.
- Isolation Valve: Indicated by a circle with a cross and a dot.
- Check Valve: Indicated by a circle with a cross and a dot.
- Pressure Transducer: Indicated by a circle with a cross and a dot.
- Temperature Transducer: Indicated by a circle with a cross and a dot.
- Flow Transducer: Indicated by a circle with a cross and a dot.
- Level Transducer: Indicated by a circle with a cross and a dot.
- Position Indicator: Indicated by a circle with a cross and a dot.
- Interlocking: Indicated by a circle with a cross and a dot.
- Alarm: Indicated by a circle with a cross and a dot.
- Interlocking: Indicated by a circle with a cross and a dot.
- Alarm: Indicated by a circle with a cross and a dot.

**Revisions:**

REV	DATE	DESCRIPTION
1	10/1/77	Initial Issue
2	10/1/77	Revised
3	10/1/77	Revised
4	10/1/77	Revised
5	10/1/77	Revised
6	10/1/77	Revised
7	10/1/77	Revised
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**Revised Comments Related:**

Figure 9-23. Flow Diagram of Nuclear Service Water System

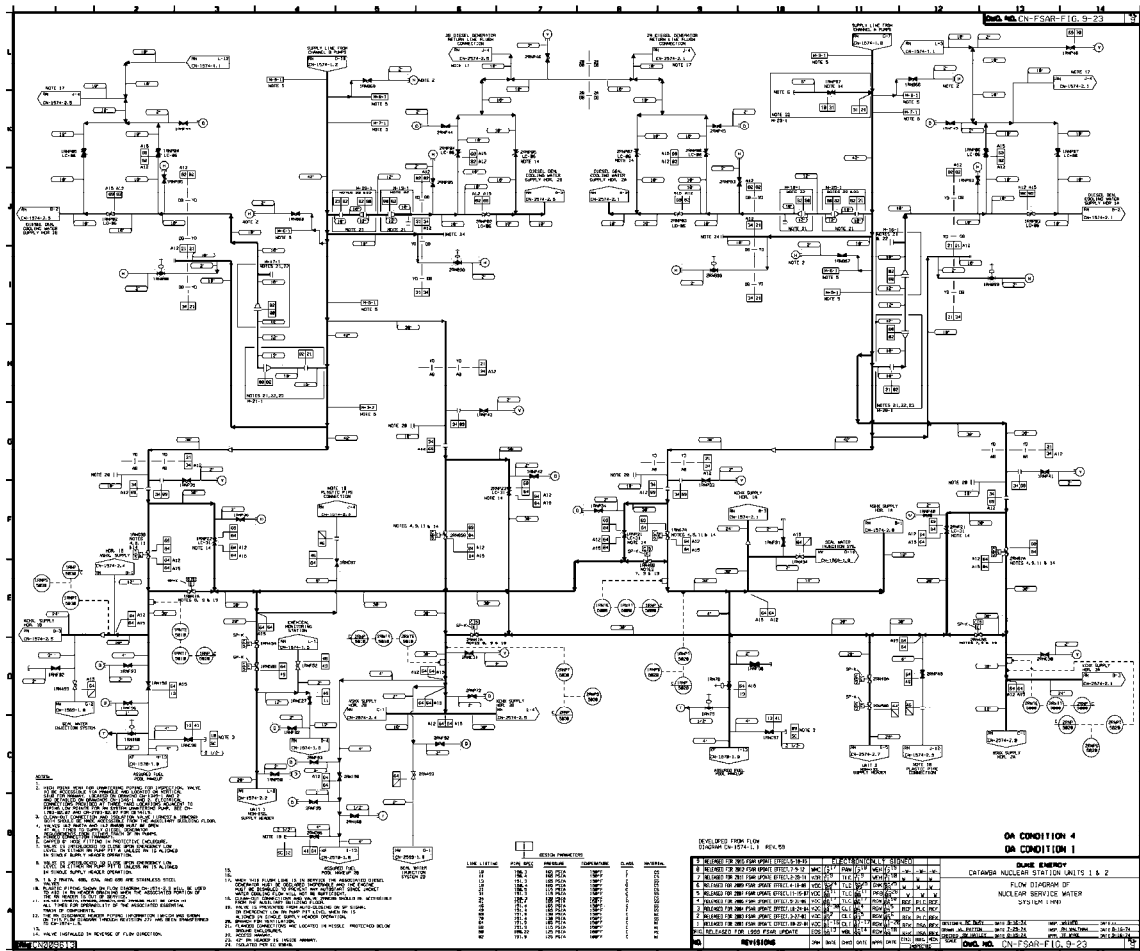


Figure 9-24. Flow Diagram of Nuclear Service Water System

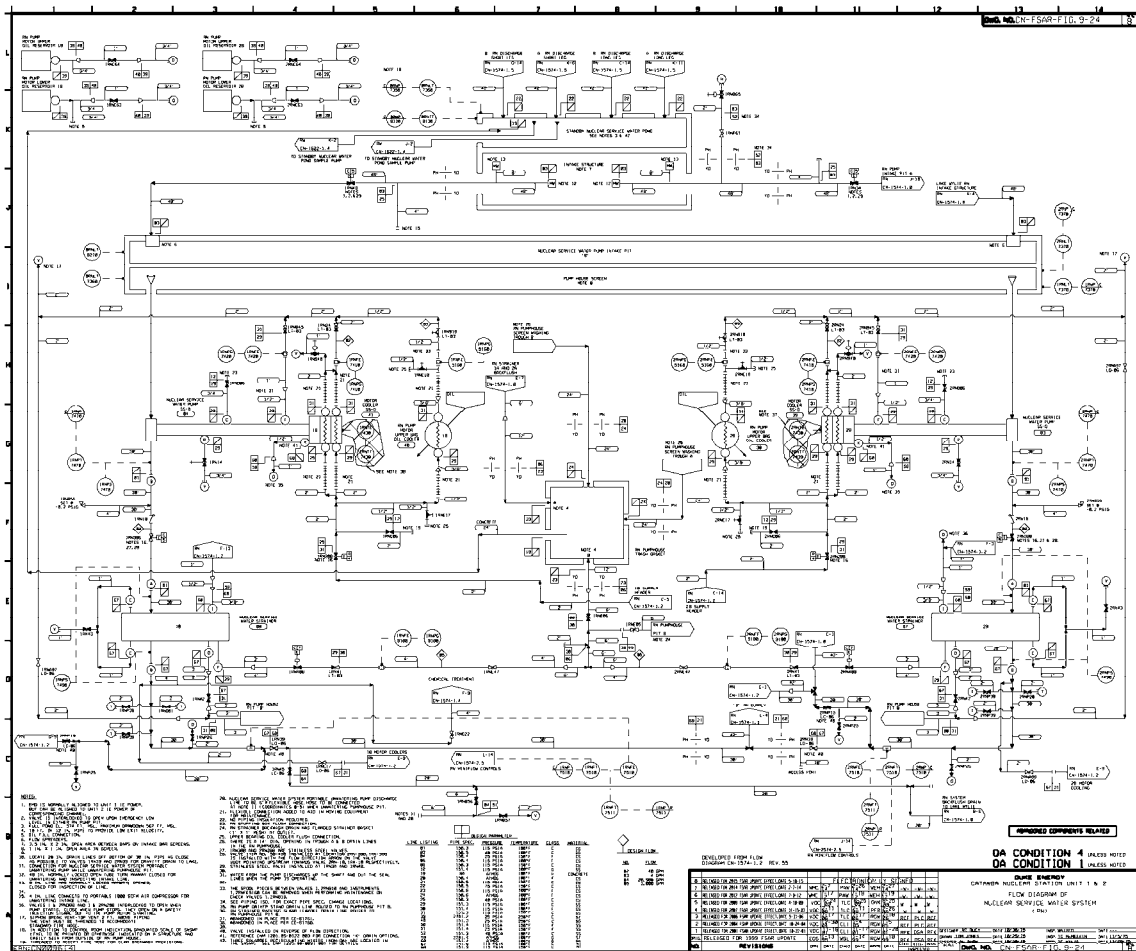
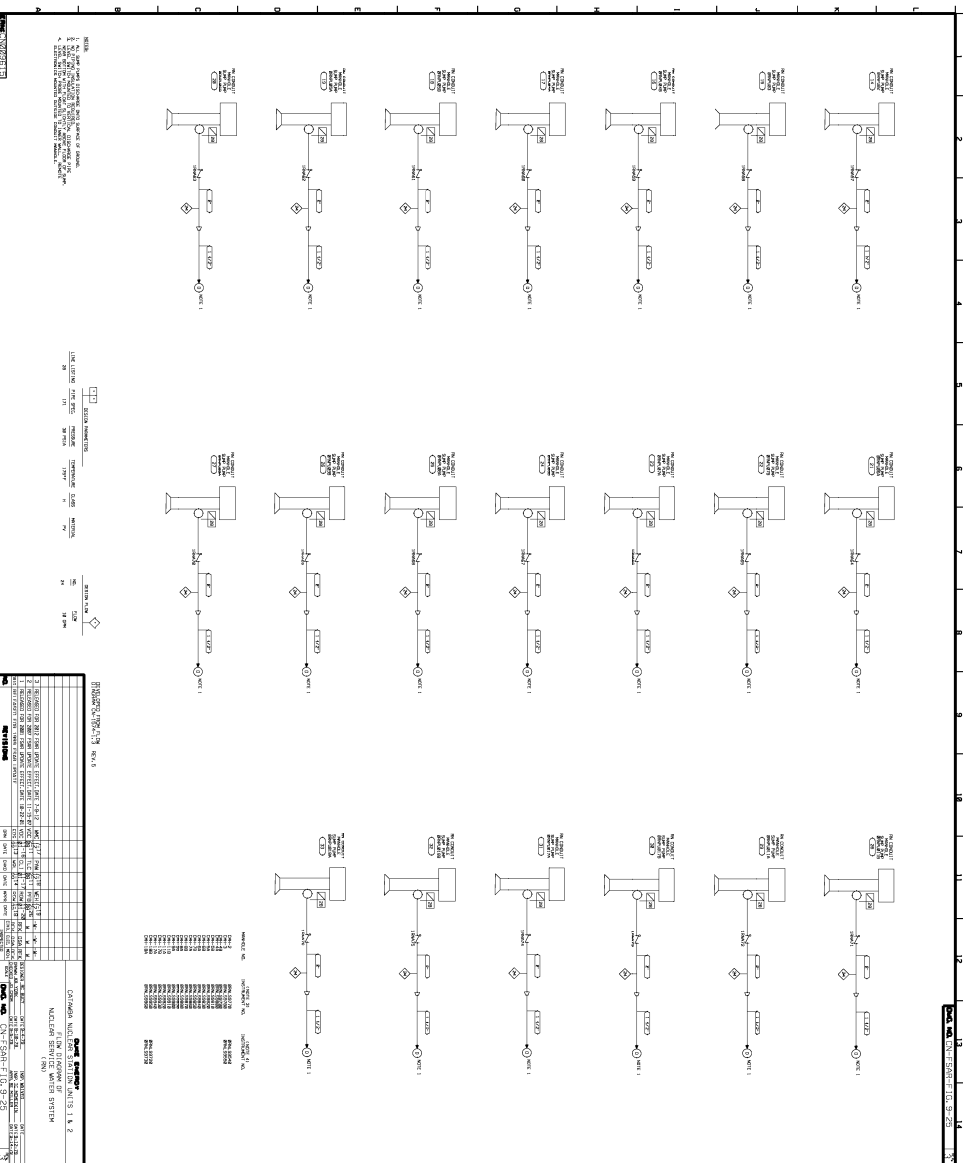


Figure 9-25. Flow Diagram of Nuclear Service Water System



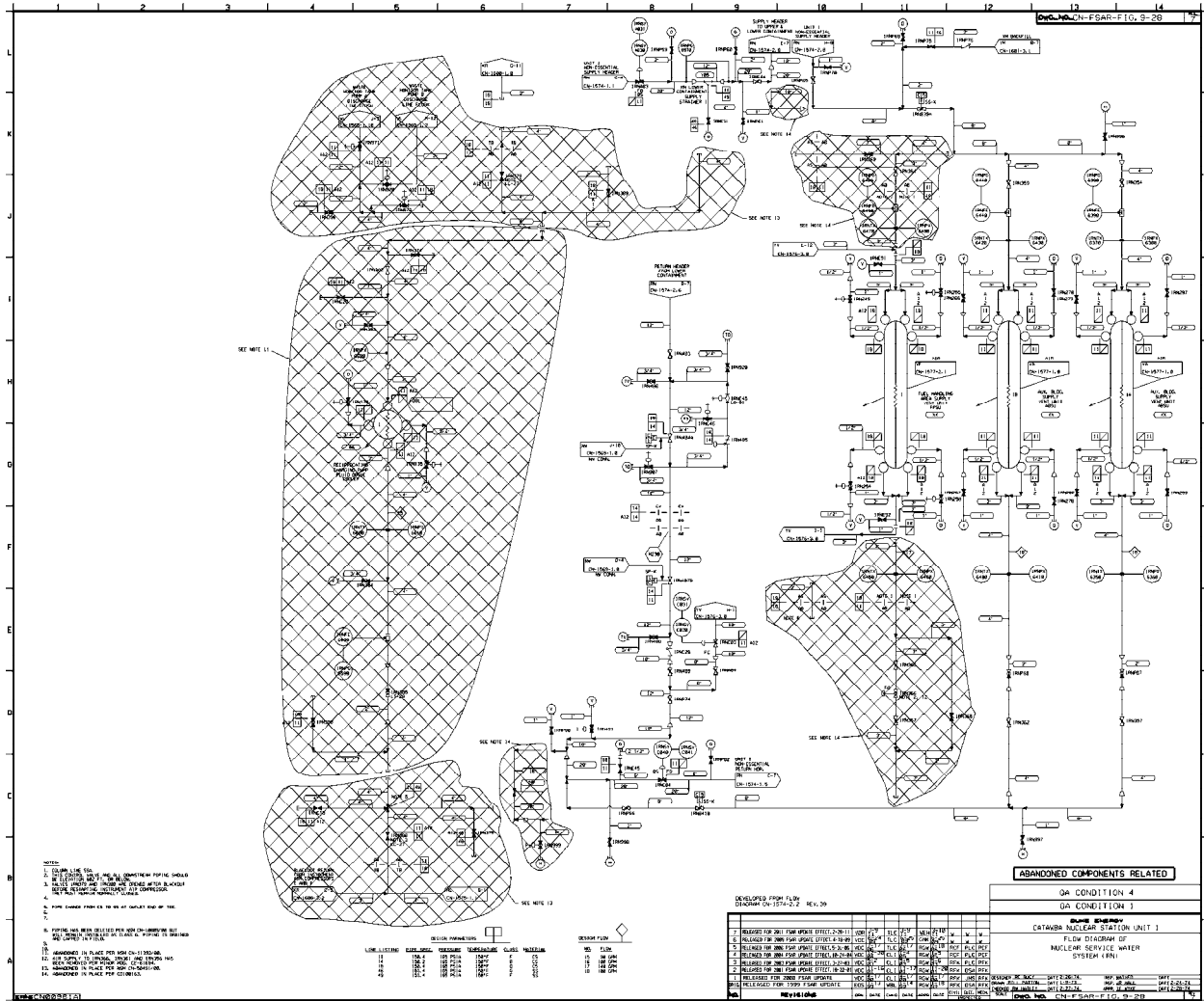


**REVISIONS**

NO.	DESCRIPTION	DATE	BY	CHKD.
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35	REVISION 34	10/1/68	J. L. HARRIS	J. L. HARRIS
36	REVISION 35	10/1/68	J. L. HARRIS	J. L. HARRIS
37	REVISION 36	10/1/68	J. L. HARRIS	J. L. HARRIS
38	REVISION 37	10/1/68	J. L. HARRIS	J. L. HARRIS
39	REVISION 38	10/1/68	J. L. HARRIS	J. L. HARRIS
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41	REVISION 40	10/1/68	J. L. HARRIS	J. L. HARRIS
42	REVISION 41	10/1/68	J. L. HARRIS	J. L. HARRIS
43	REVISION 42	10/1/68	J. L. HARRIS	J. L. HARRIS
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46	REVISION 45	10/1/68	J. L. HARRIS	J. L. HARRIS
47	REVISION 46	10/1/68	J. L. HARRIS	J. L. HARRIS
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54	REVISION 53	10/1/68	J. L. HARRIS	J. L. HARRIS
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59	REVISION 58	10/1/68	J. L. HARRIS	J. L. HARRIS
60	REVISION 59	10/1/68	J. L. HARRIS	J. L. HARRIS
61	REVISION 60	10/1/68	J. L. HARRIS	J. L. HARRIS
62	REVISION 61	10/1/68	J. L. HARRIS	J. L. HARRIS
63	REVISION 62	10/1/68	J. L. HARRIS	J. L. HARR

[illegible]

Figure 9-28. Flow Diagram of Nuclear Service Water System



[illegible]

[illegible]

Figure 9-31. Flow Diagram of Nuclear Service Water System

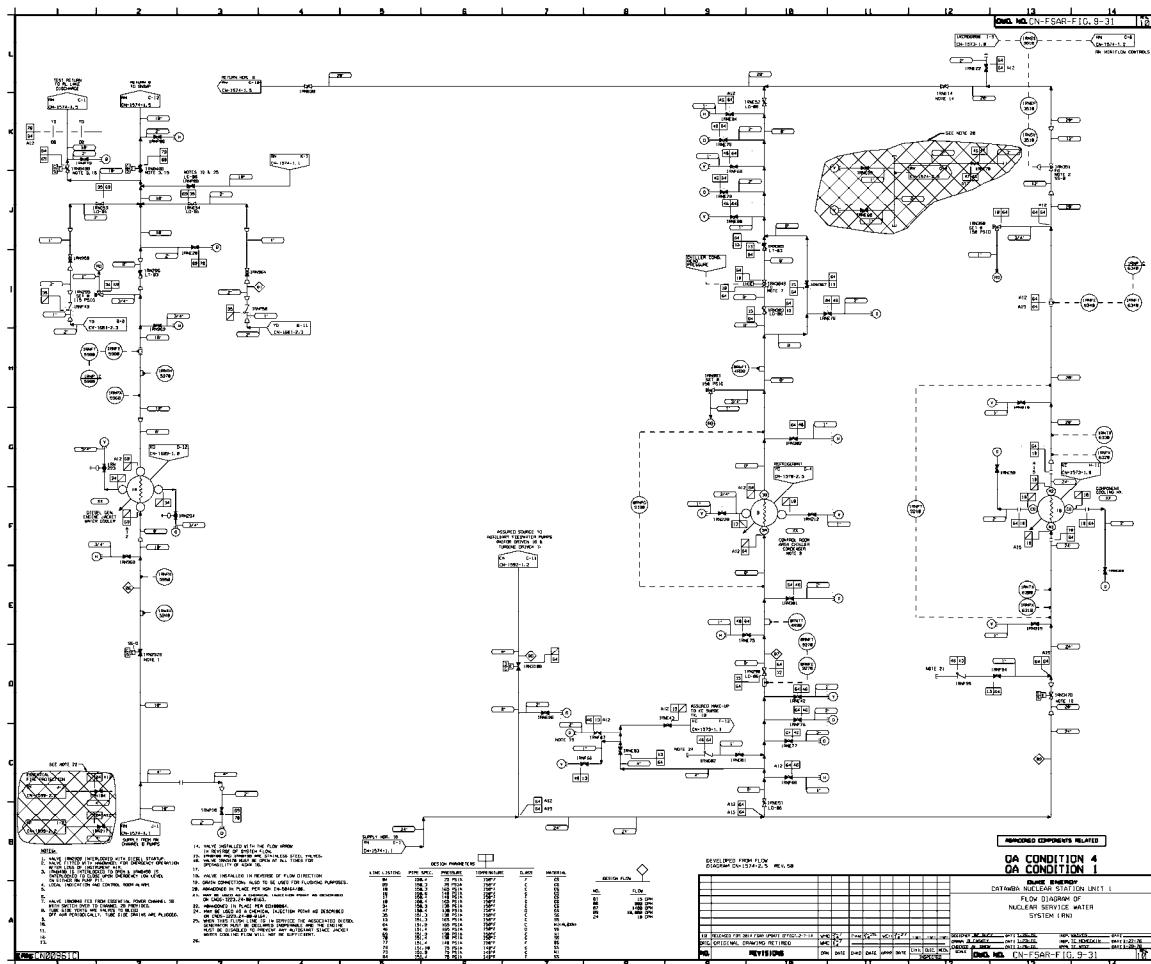
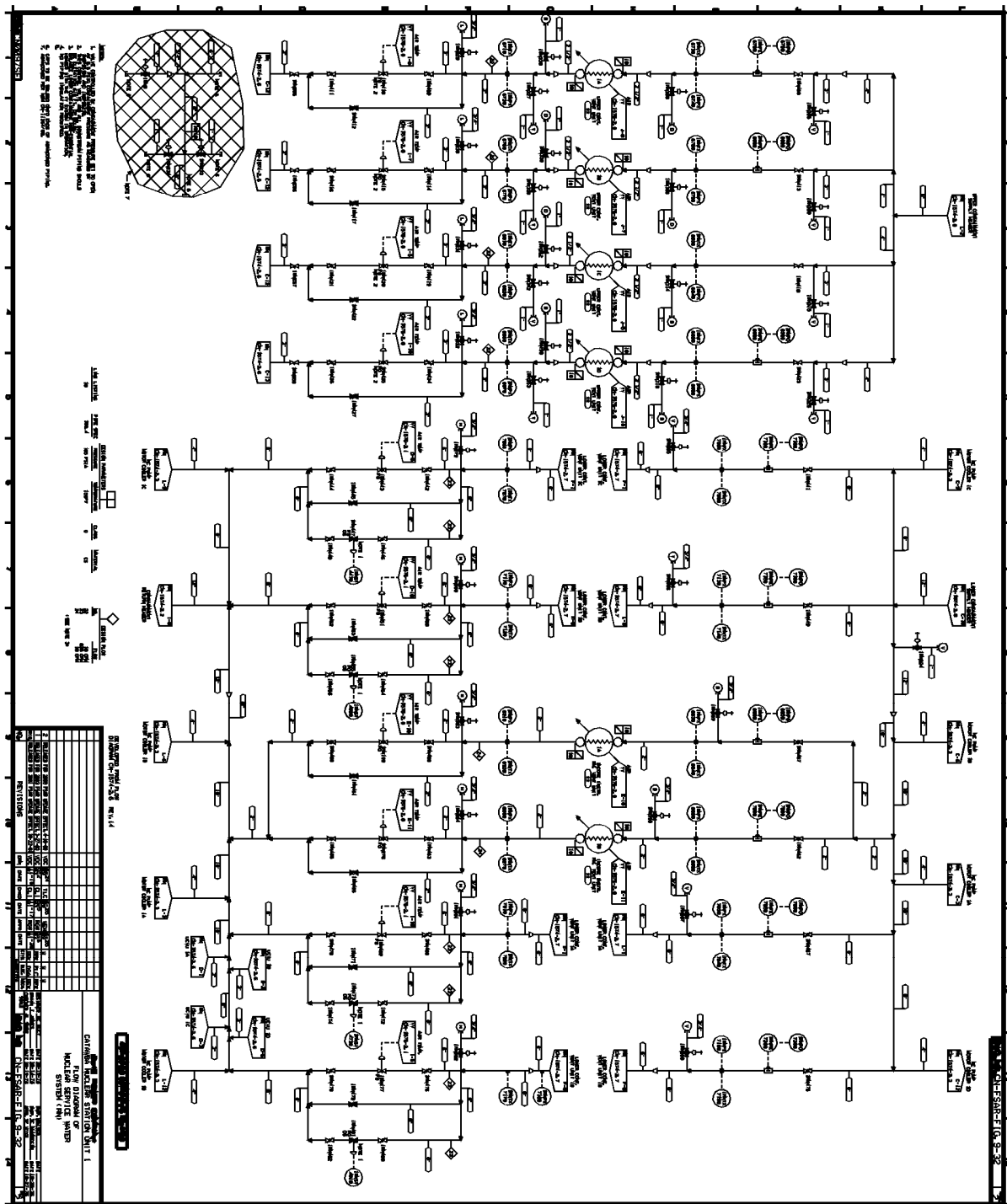


Figure 9-32. Flow Diagram of Nuclear Service Water System



The image displays four schematic diagrams of a water supply system, labeled A, B, C, and D. Each diagram illustrates a network of pipes, valves, and pumps, with specific components labeled with codes and numbers. The diagrams are arranged in a 2x2 grid. Each diagram includes a title block with project information and a revision table.

**Diagram A:** Shows a system with a main supply line at the top, branching into multiple parallel lines. Each parallel line contains a pump (P) and a valve (V). The system is labeled with various codes and numbers, including "PUMP", "VALVE", and "WATER SUPPLY".

**Diagram B:** Similar to Diagram A, but with different component labels and a different layout of the parallel lines. It includes a title block with the text "WATER SUPPLY SYSTEM" and a revision table.

**Diagram C:** Similar to Diagram A, but with different component labels and a different layout of the parallel lines. It includes a title block with the text "WATER SUPPLY SYSTEM" and a revision table.

**Diagram D:** Similar to Diagram A, but with different component labels and a different layout of the parallel lines. It includes a title block with the text "WATER SUPPLY SYSTEM" and a revision table.

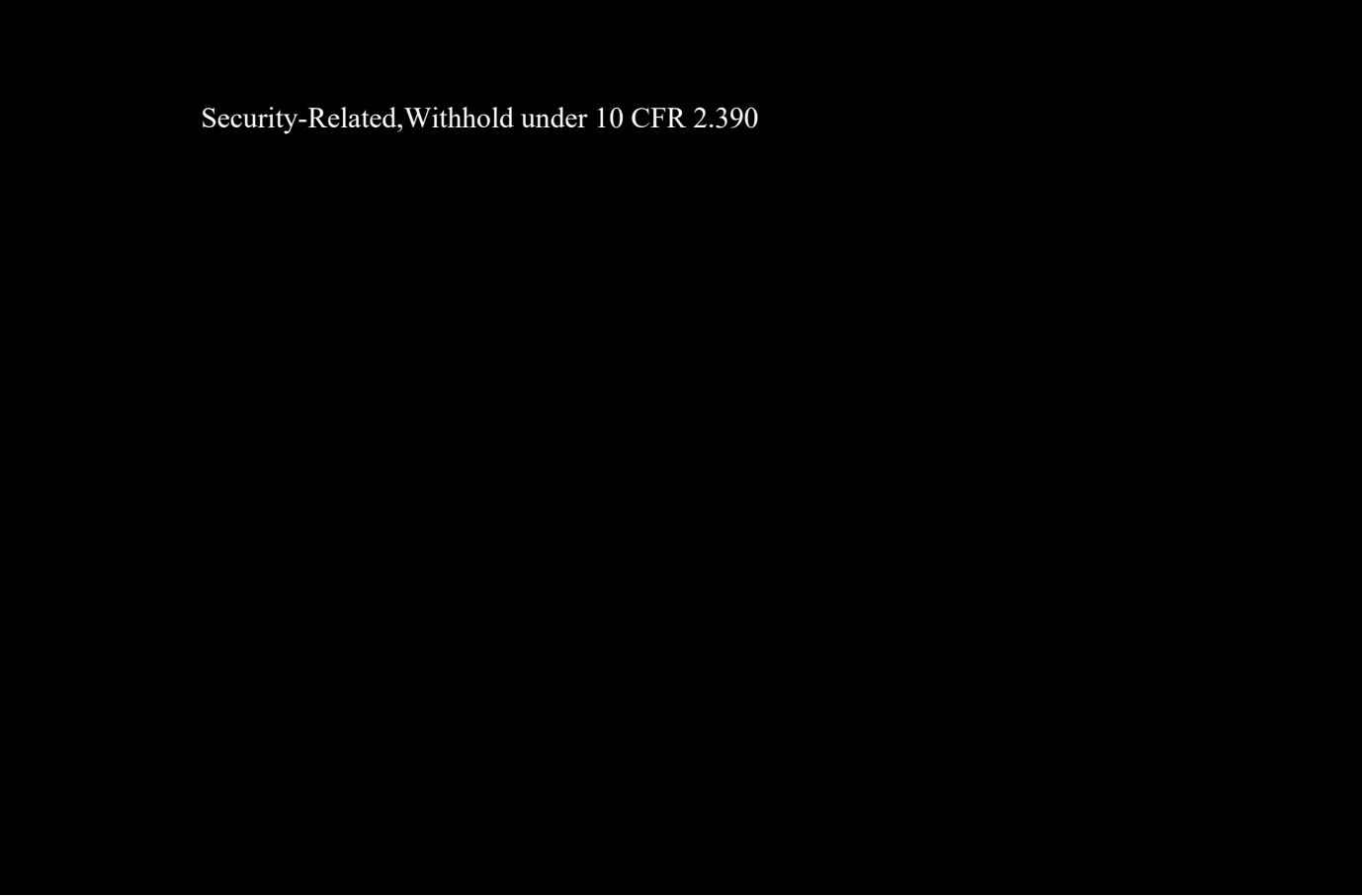
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7	REVISION			
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96	REVISION			
97	REVISION			



**Figure 9-34. Nuclear Service Water System Yard Layout**

Security-Related, Withhold under 10 CFR 2.390



[illegible]

Figure 9-36. Flow Diagram of Component Cooling System

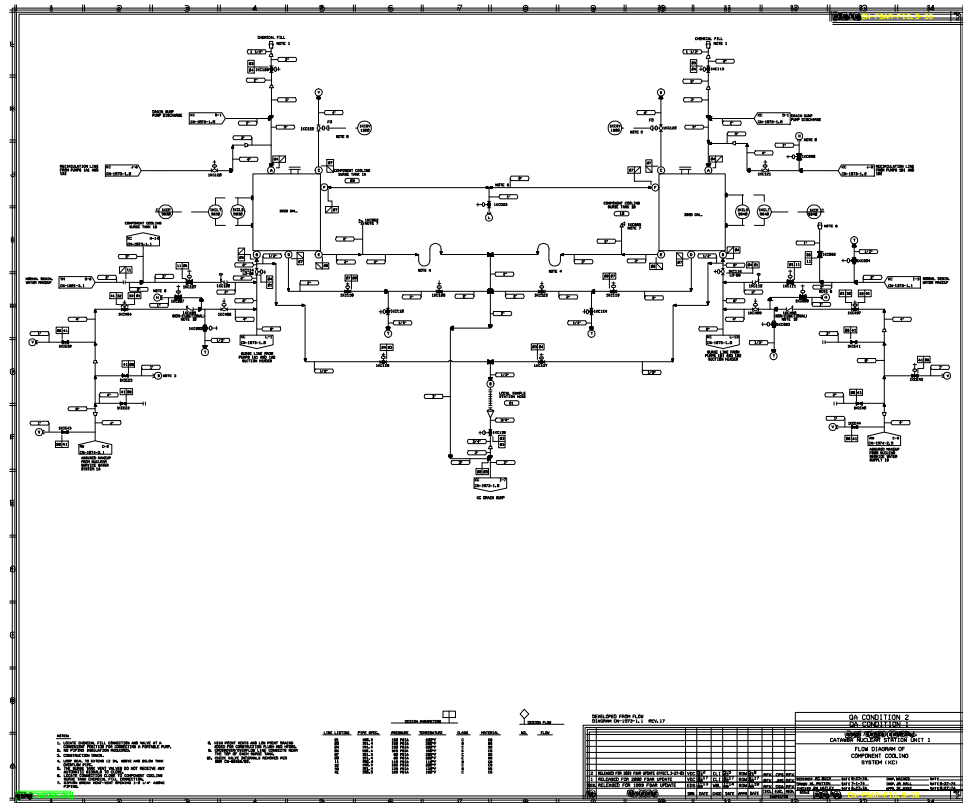
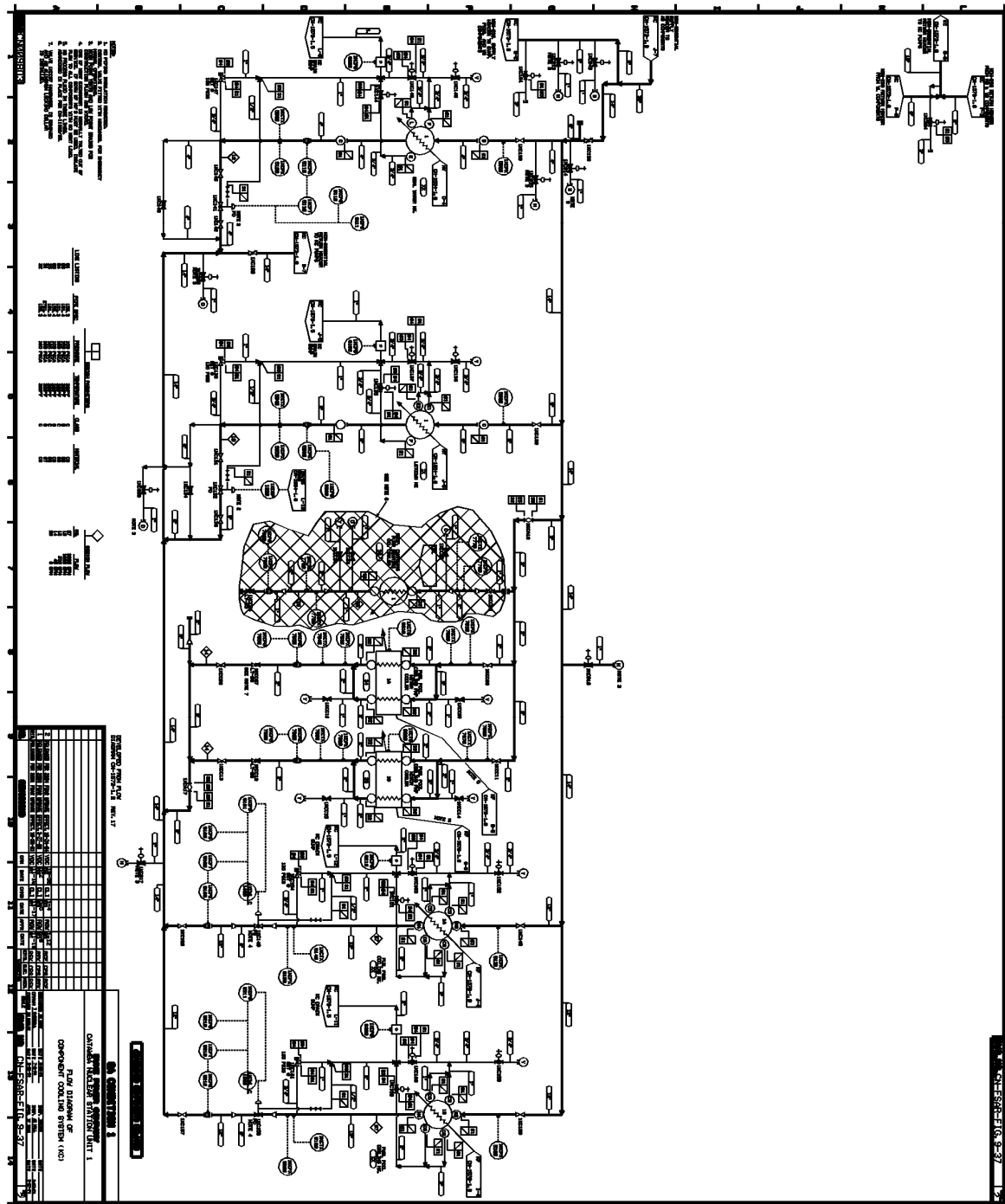


Figure 9-37. Flow Diagram of Component Cooling System



(24 OCT 2004)



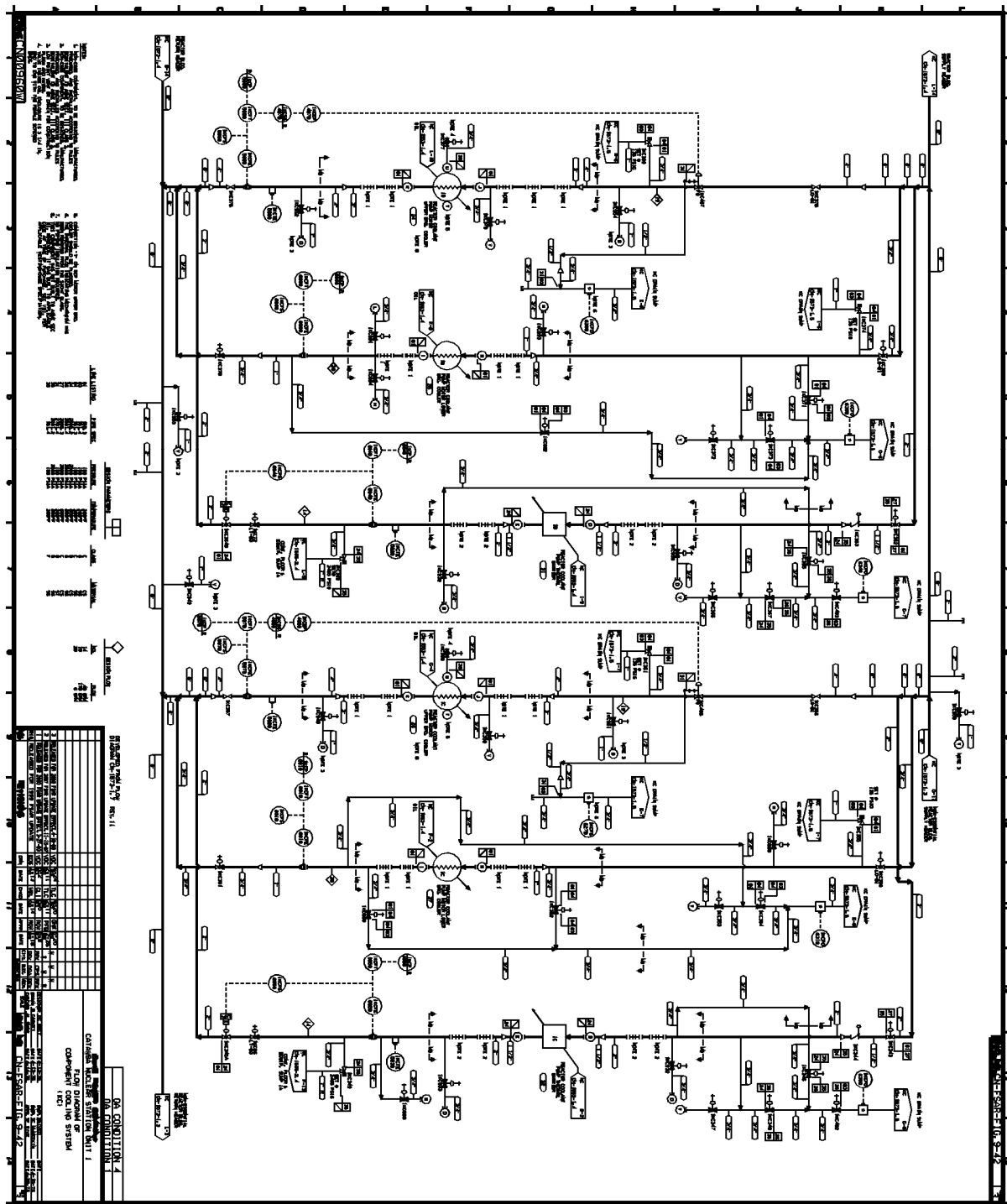
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**(15 NOV 2007)**





Figure 9-42. Flow Diagram of Component Cooling System



(18 APR 2009)

Figure 9-43. Flow Diagram of Component Cooling System

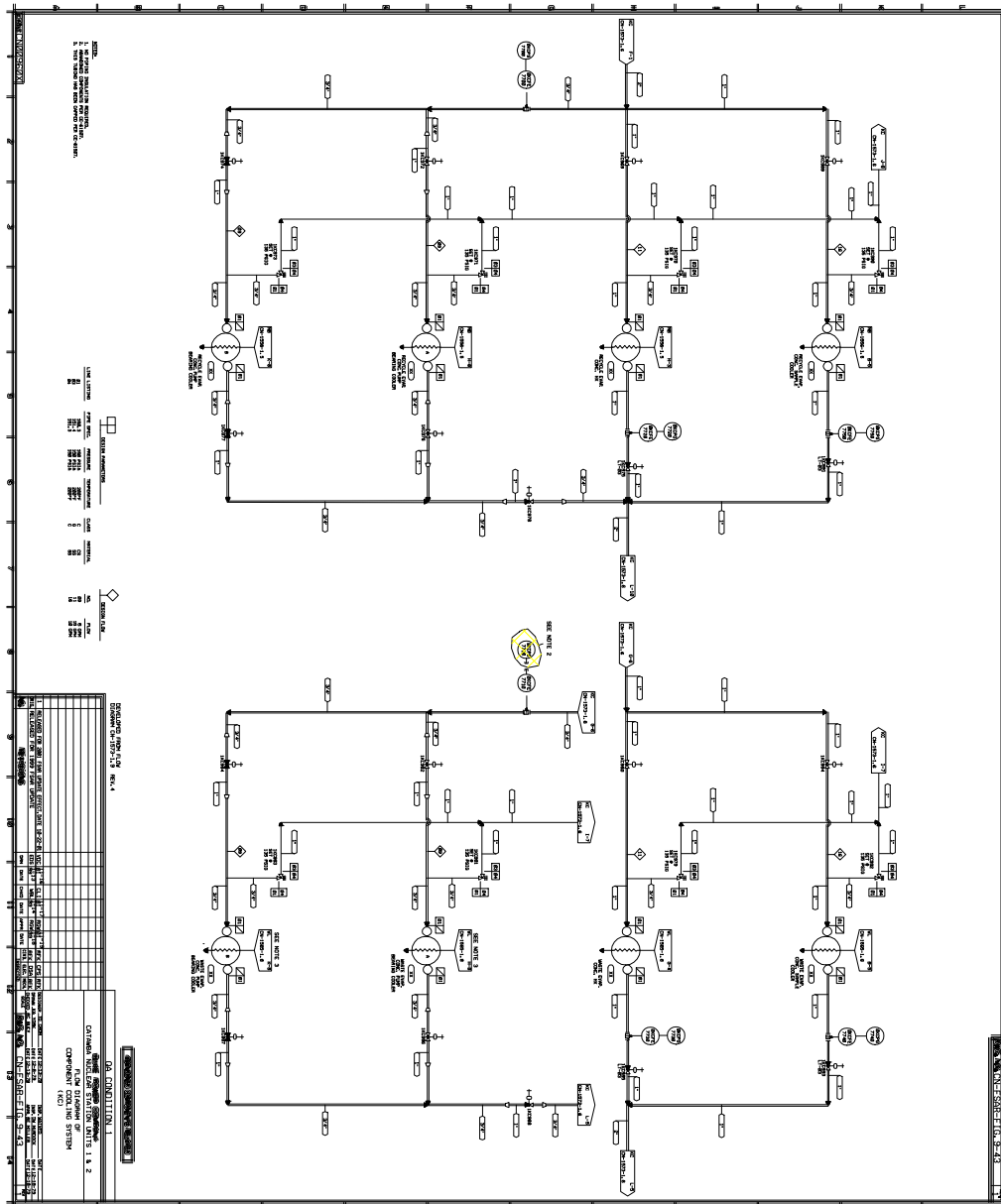


Figure 9-44. Flow Diagram of Makeup Demineralized Water System

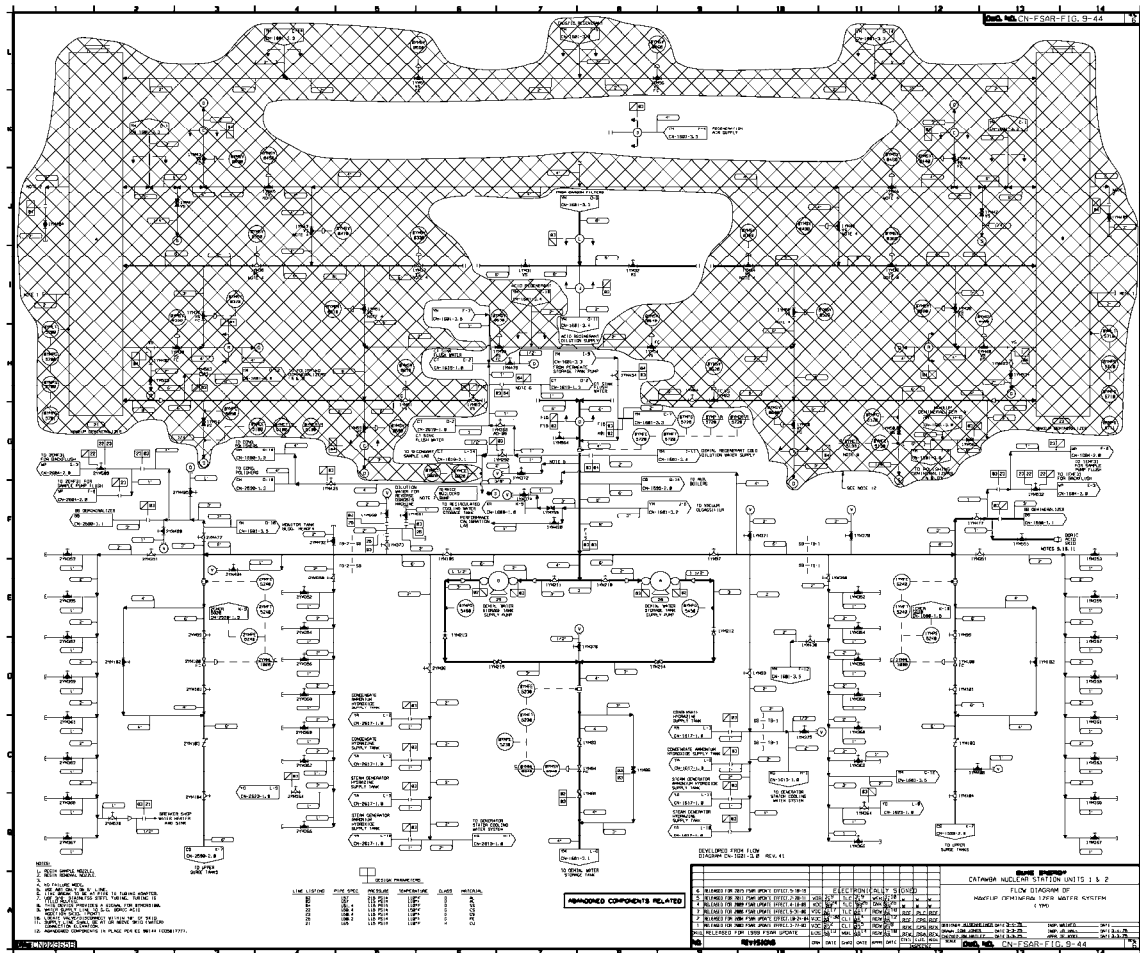
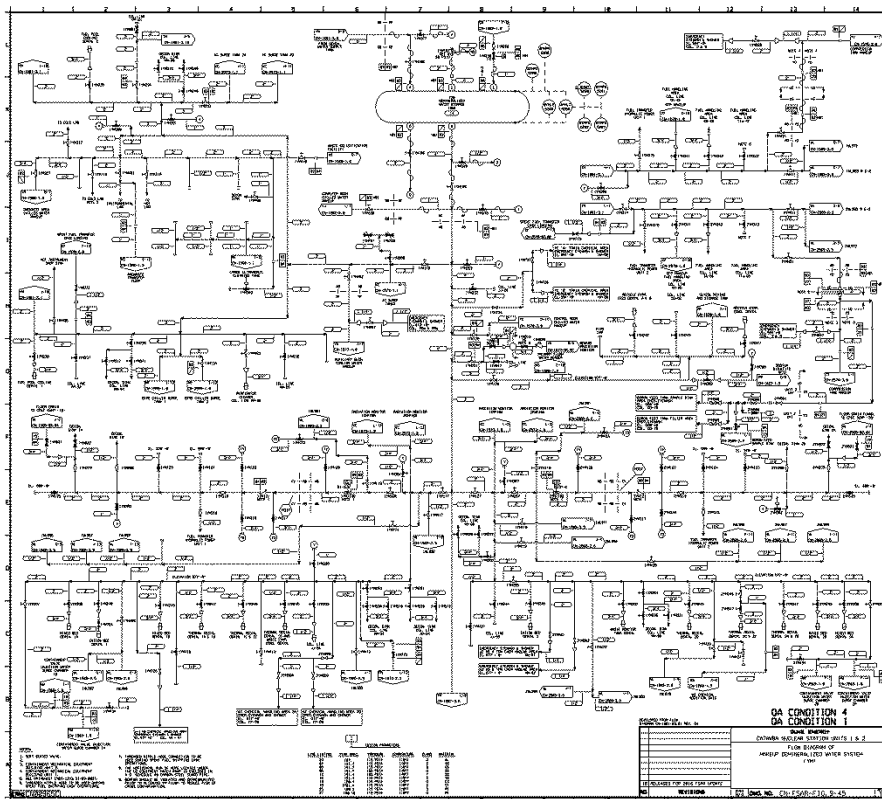


Figure 9-45. Flow Diagram of Makeup Demineralized Water System



**LEGEND**

LINE LOCATIONS FOR DATA

PUMP

VALVE

ELEVATION

CLASS

**REVISIONS**

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2	10/1/77	J. L. B.	J. L. B.	REVISIONS
3	10/1/77	J. L. B.	J. L. B.	REVISIONS
4	10/1/77	J. L. B.	J. L. B.	REVISIONS
5	10/1/77	J. L. B.	J. L. B.	REVISIONS
6	10/1/77	J. L. B.	J. L. B.	REVISIONS
7	10/1/77	J. L. B.	J. L. B.	REVISIONS
8	10/1/77	J. L. B.	J. L. B.	REVISIONS
9	10/1/77	J. L. B.	J. L. B.	REVISIONS
10	10/1/77	J. L. B.	J. L. B.	REVISIONS

[illegible]

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**LEGEND**

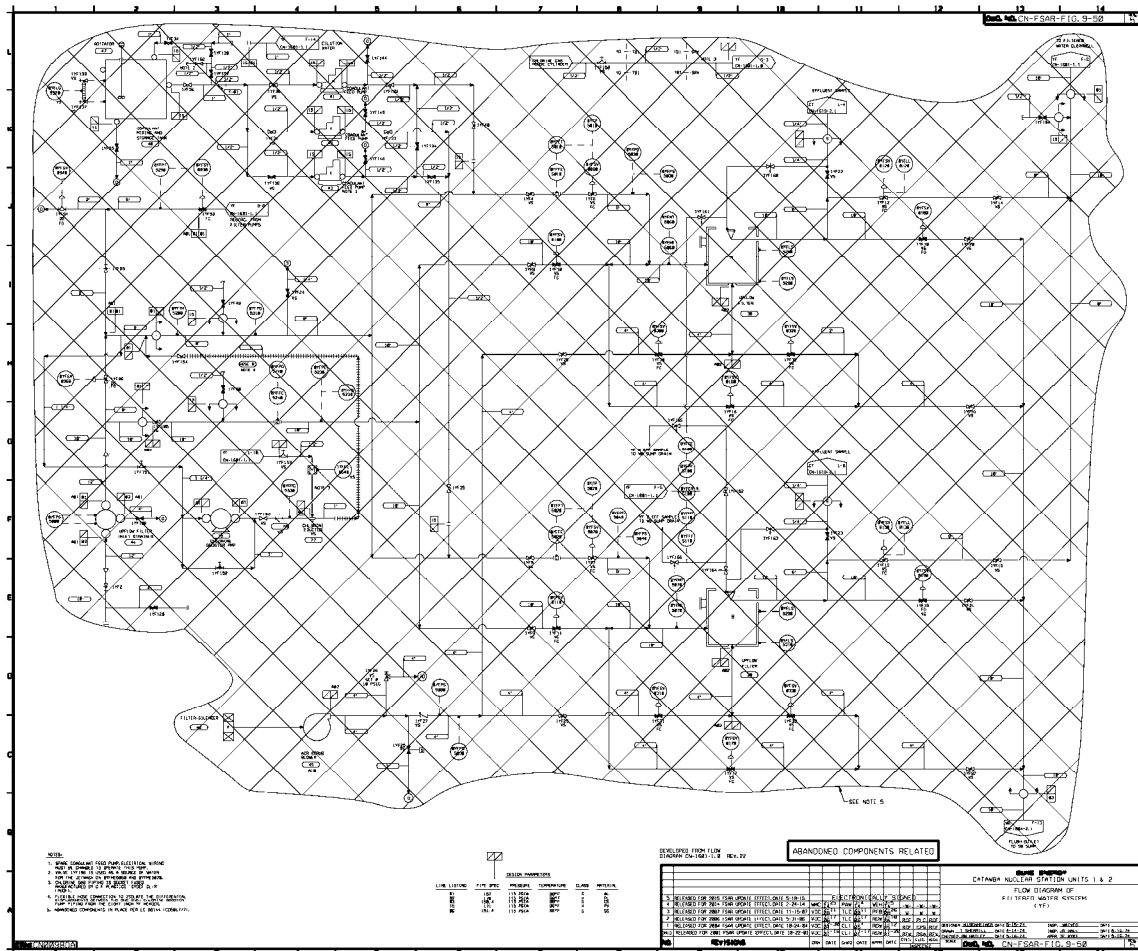
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**DETAIL INFORMATION**

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Figure 9-50. Flow Diagram of Filtered Water System





**Figure 9-52. Flow Diagram of Drinking Water System**

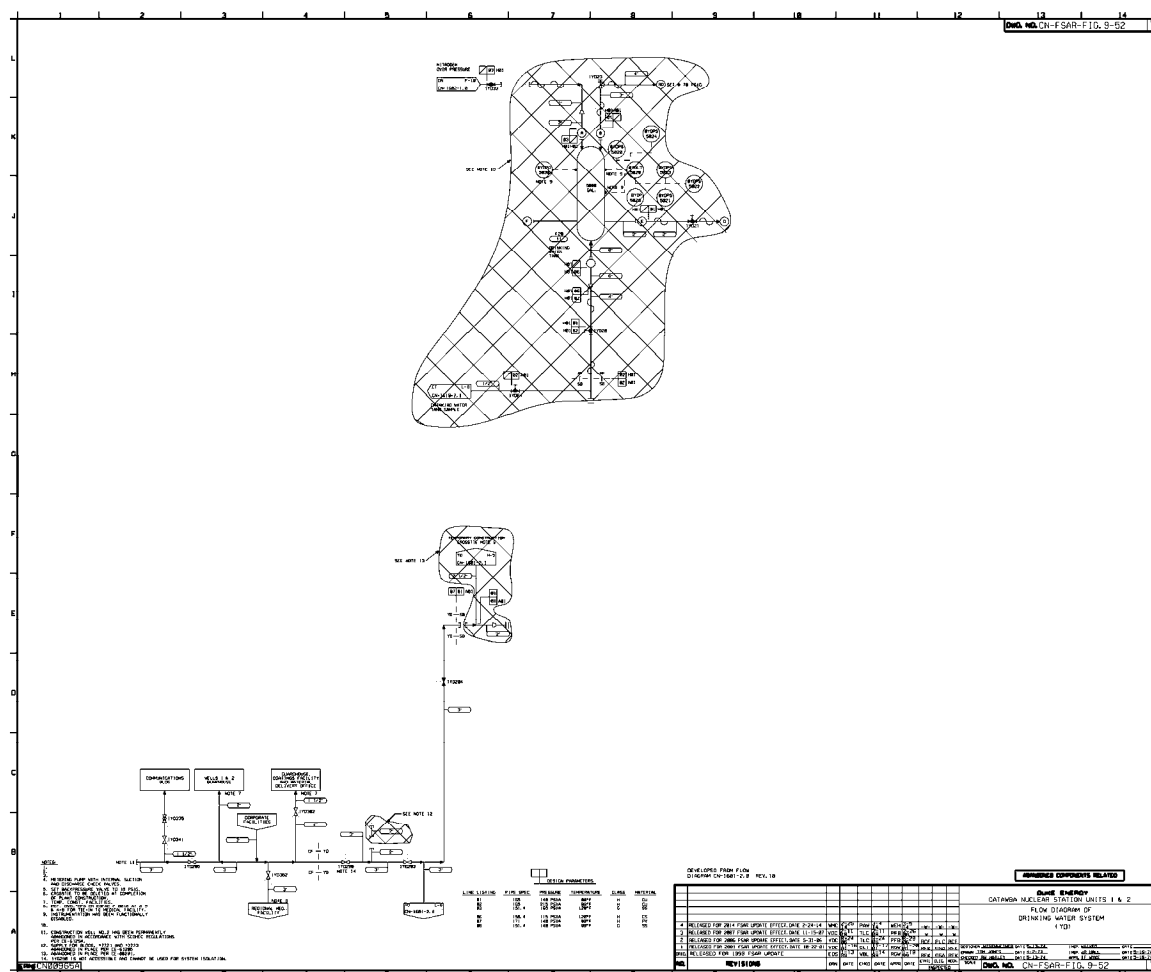
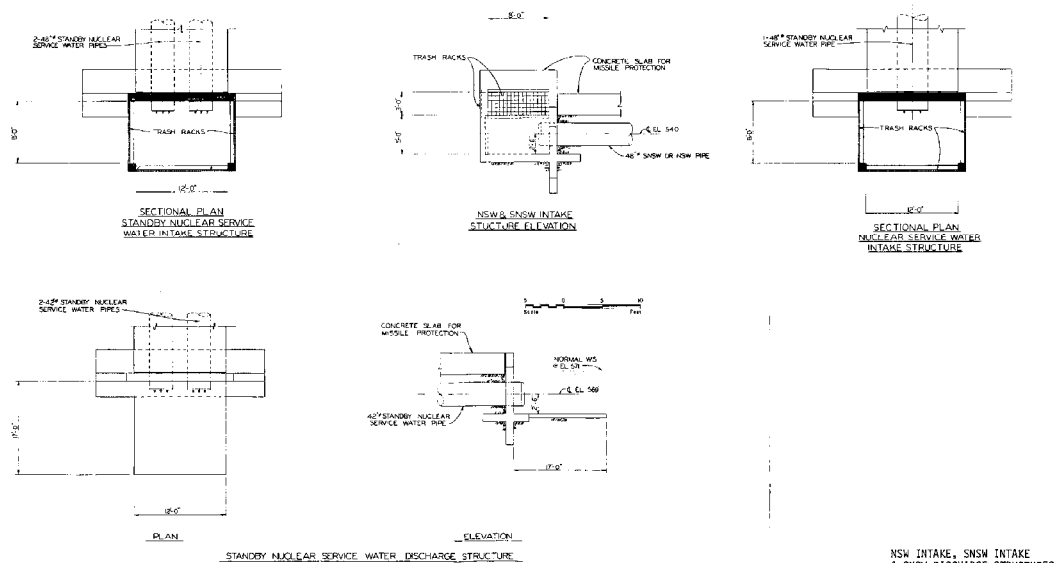
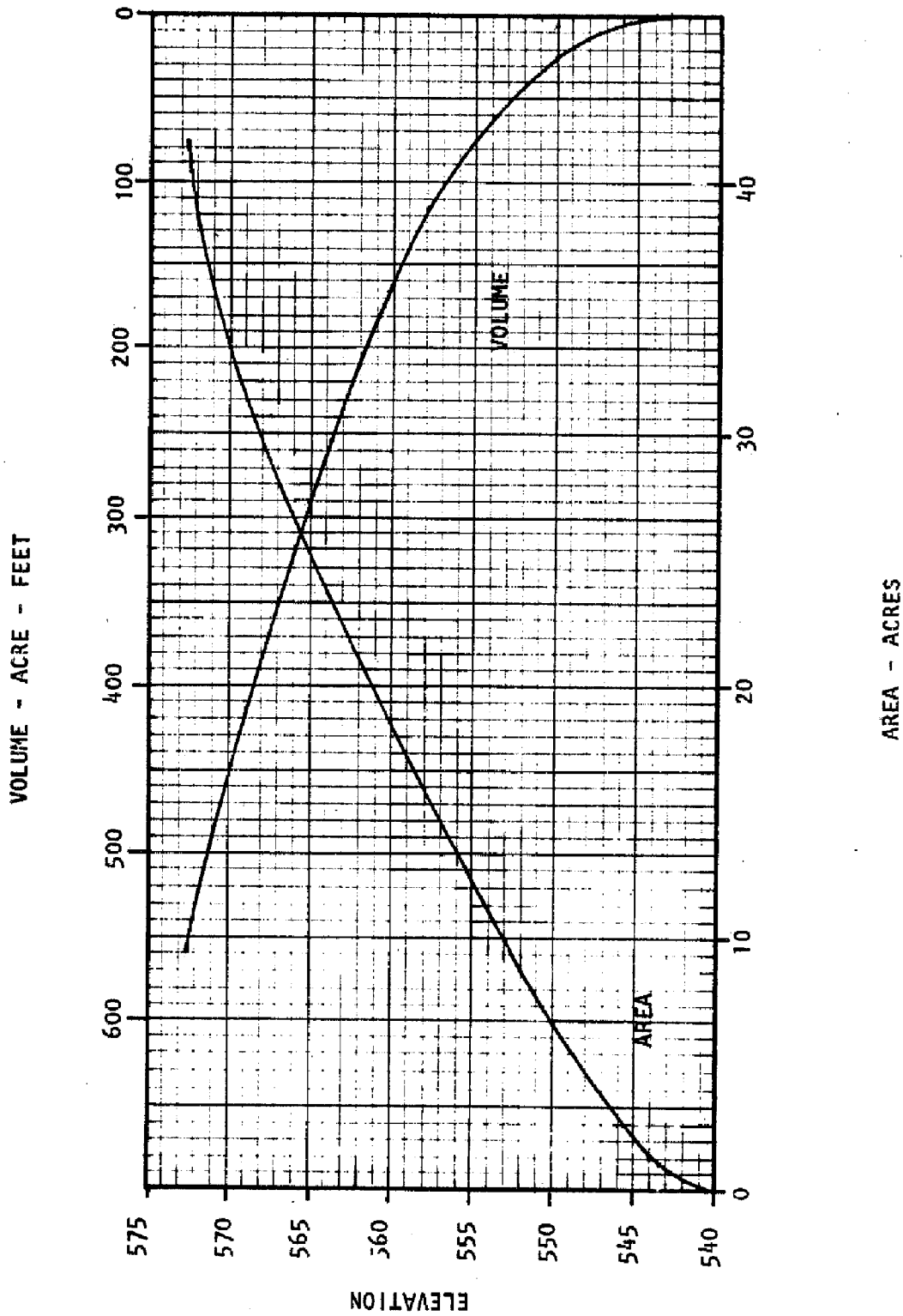


Figure 9-53. NSW Intake &amp; SNSW Discharge Structures



NSW INTAKE, SNSW INTAKE  
& SNSW DISCHARGE STRUCTURES  
CATAWBA NUCLEAR STATION  
Figure 9.2.5-1

Figure 9-54. Catawba SNSWP Area Volume Curves



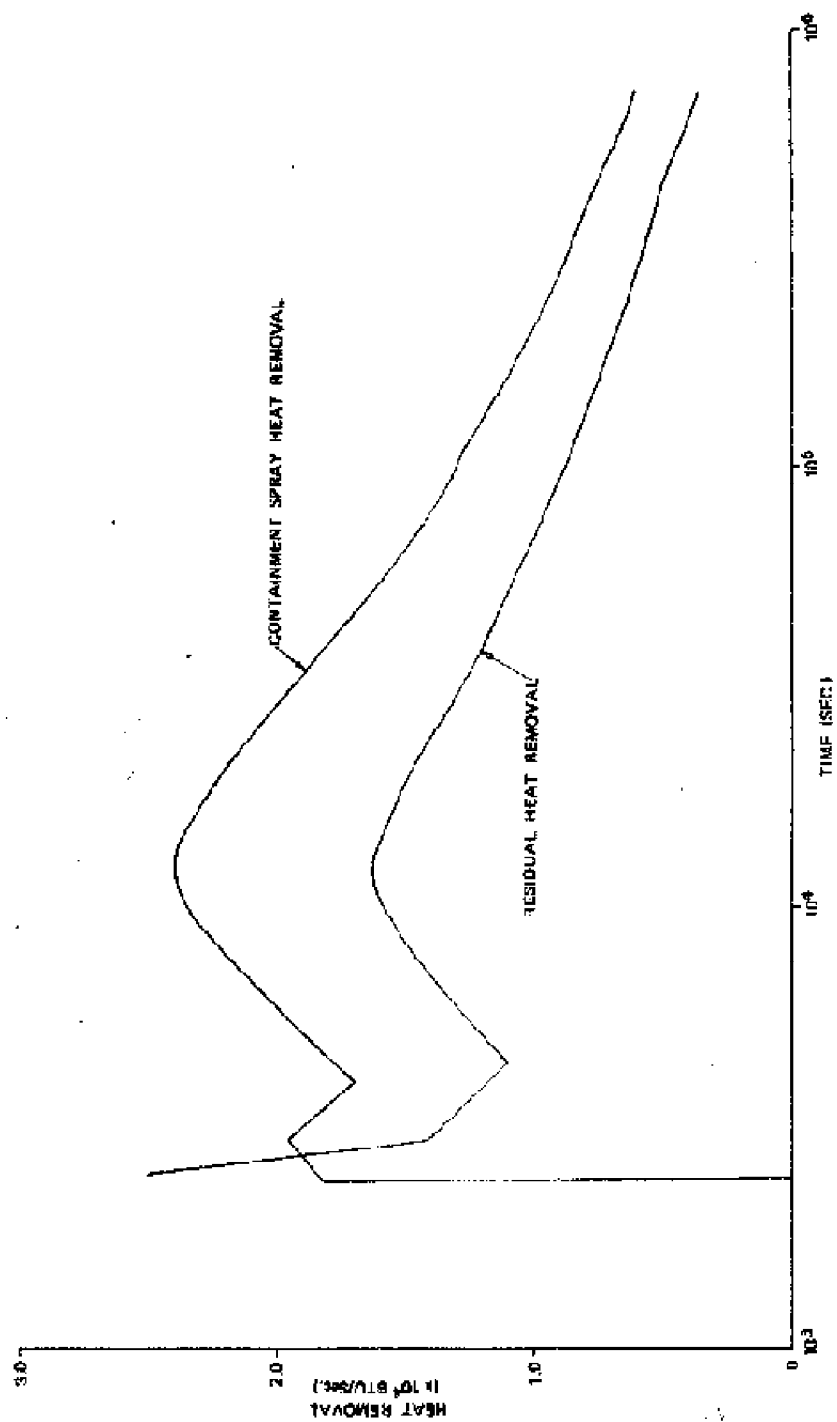
(22 OCT 2001)

**Figure 9-55. Deleted Per 1994 Update**

**Figure 9-56. Deleted Per 1994 Update**

**Figure 9-57. Deleted Per 2000 Update**

Figure 9-58. Residual Decay Heat



(22 OCT 2001)

[illegible]



**Figure 9-60. Flow Diagram of Condensate Storage System**

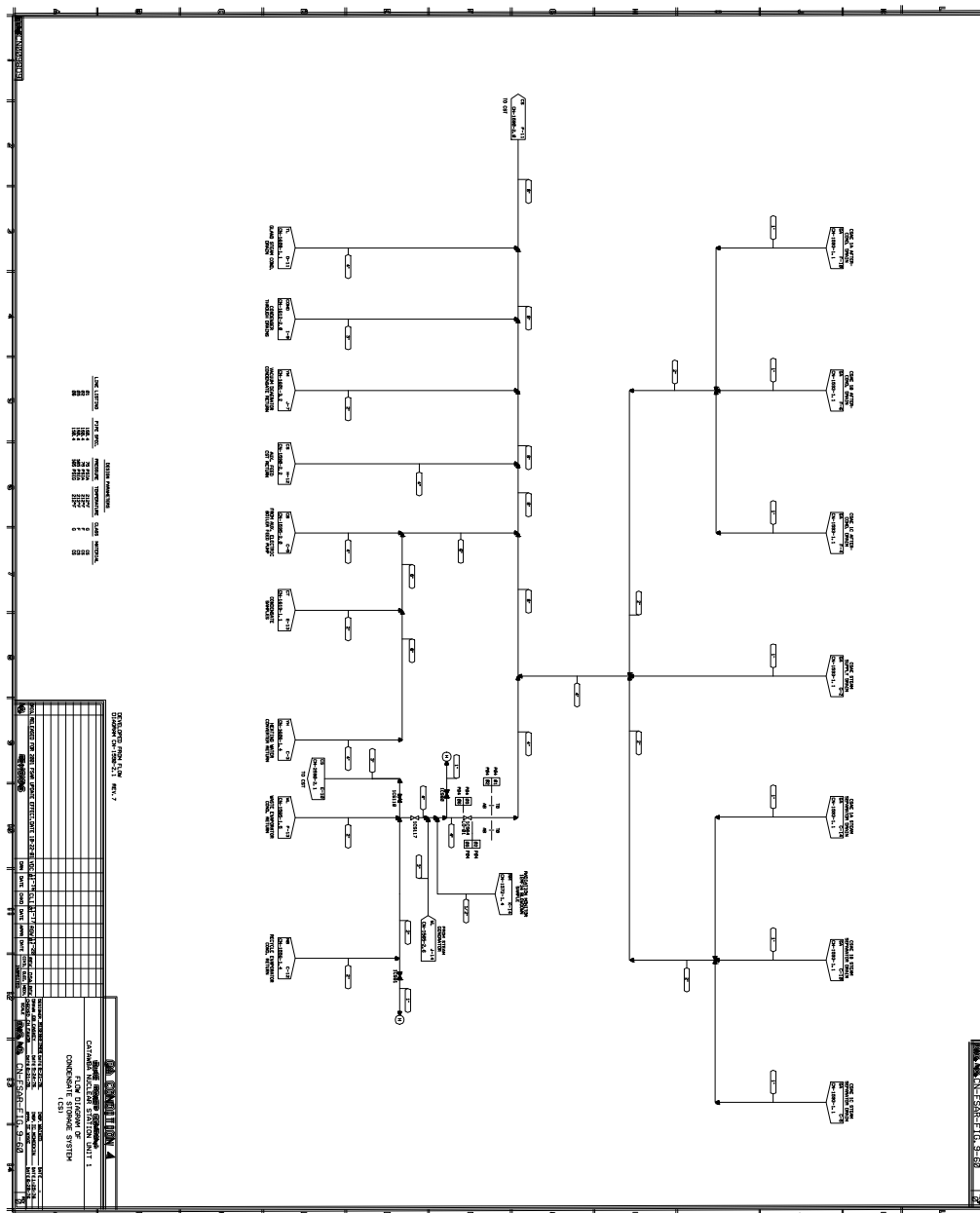


Figure 9-61. Flow Diagram of Condensate Storage System

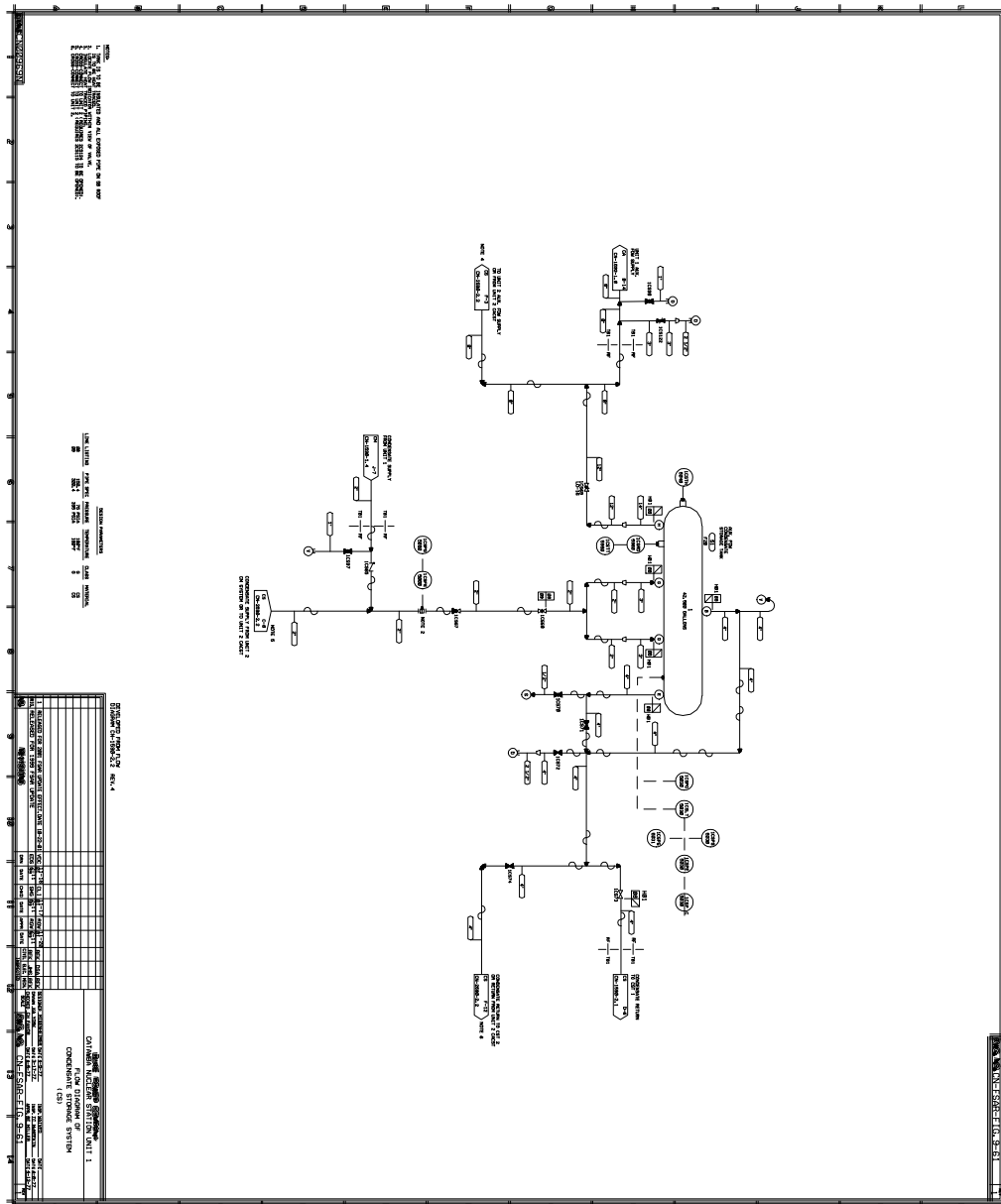
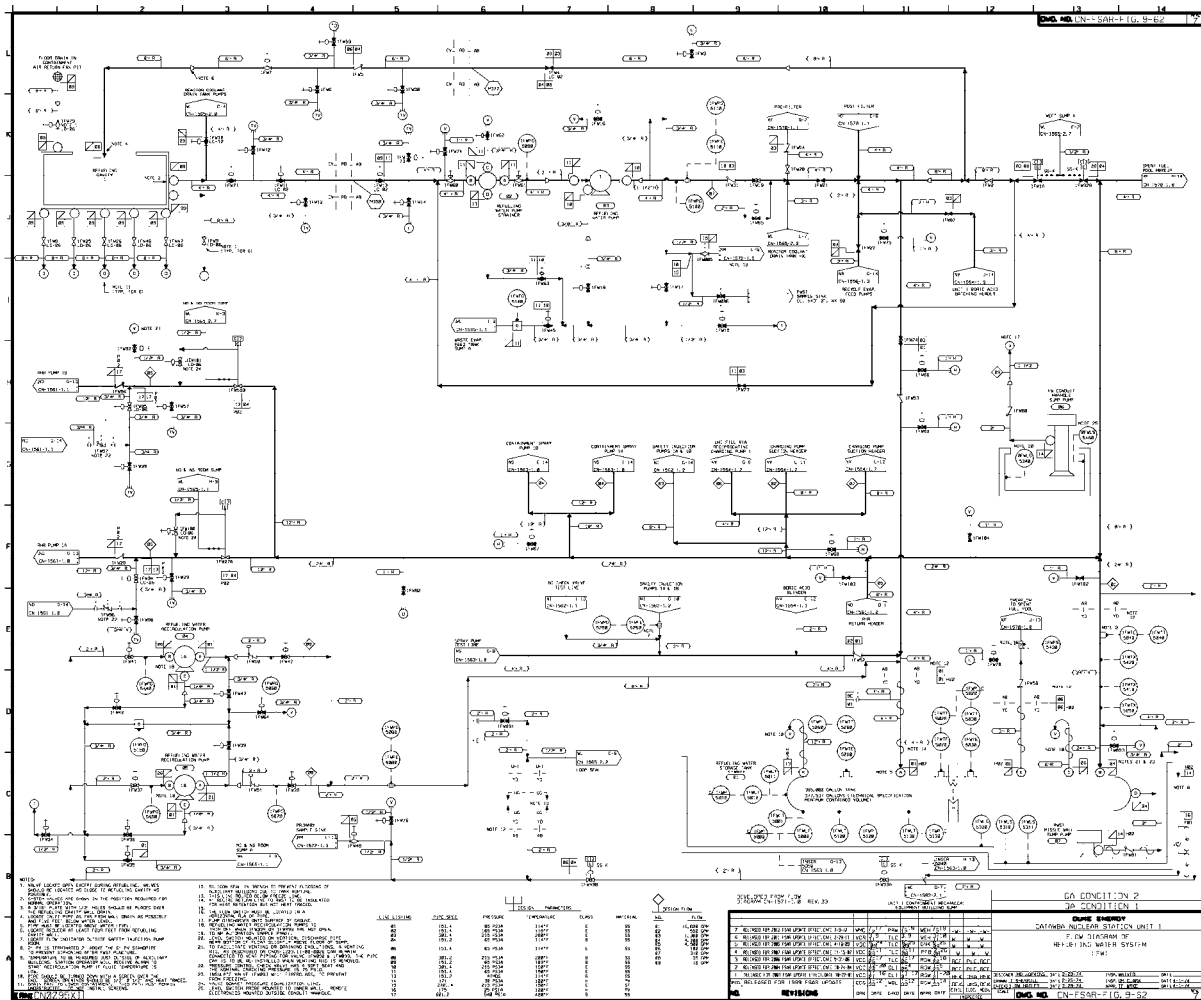


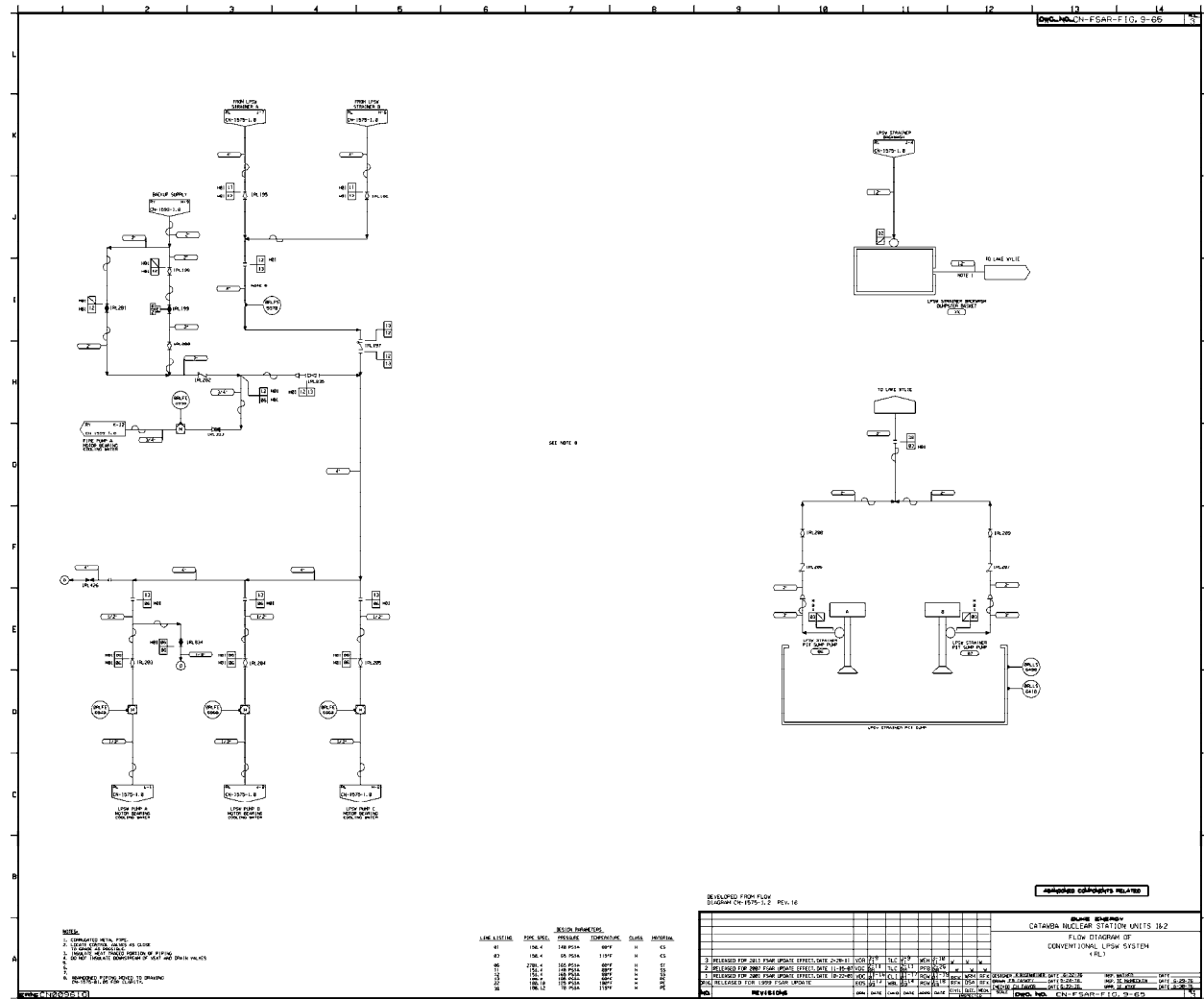
Figure 9-62. Flow Diagram of Refueling Water System





[illegible]

Figure 9-65. Flow Diagram of Conventional LPSW System



[illegible]





Figure 9-68. Flow Diagram of Conventional LPSW System

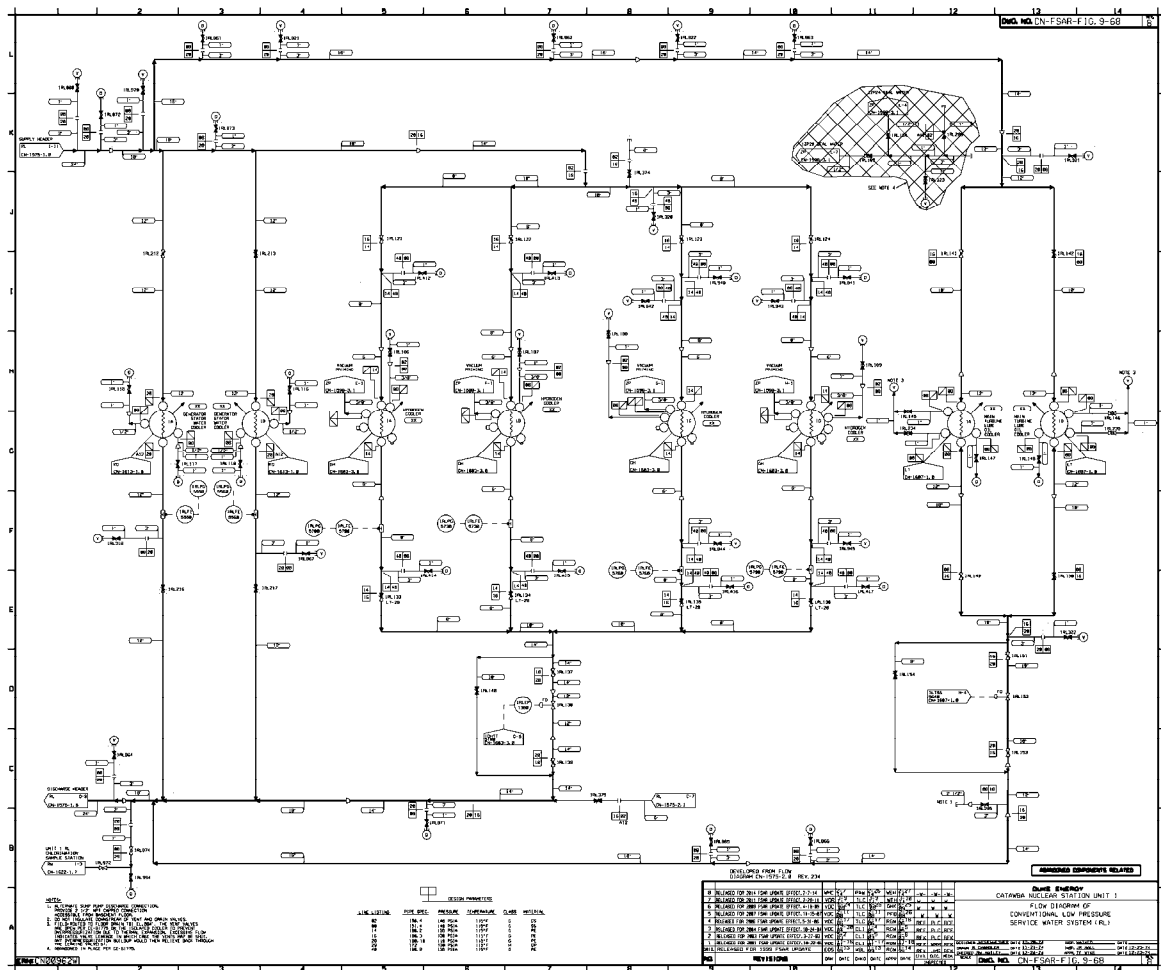


Figure 9-69. Flow Diagram of Conventional LPSW System

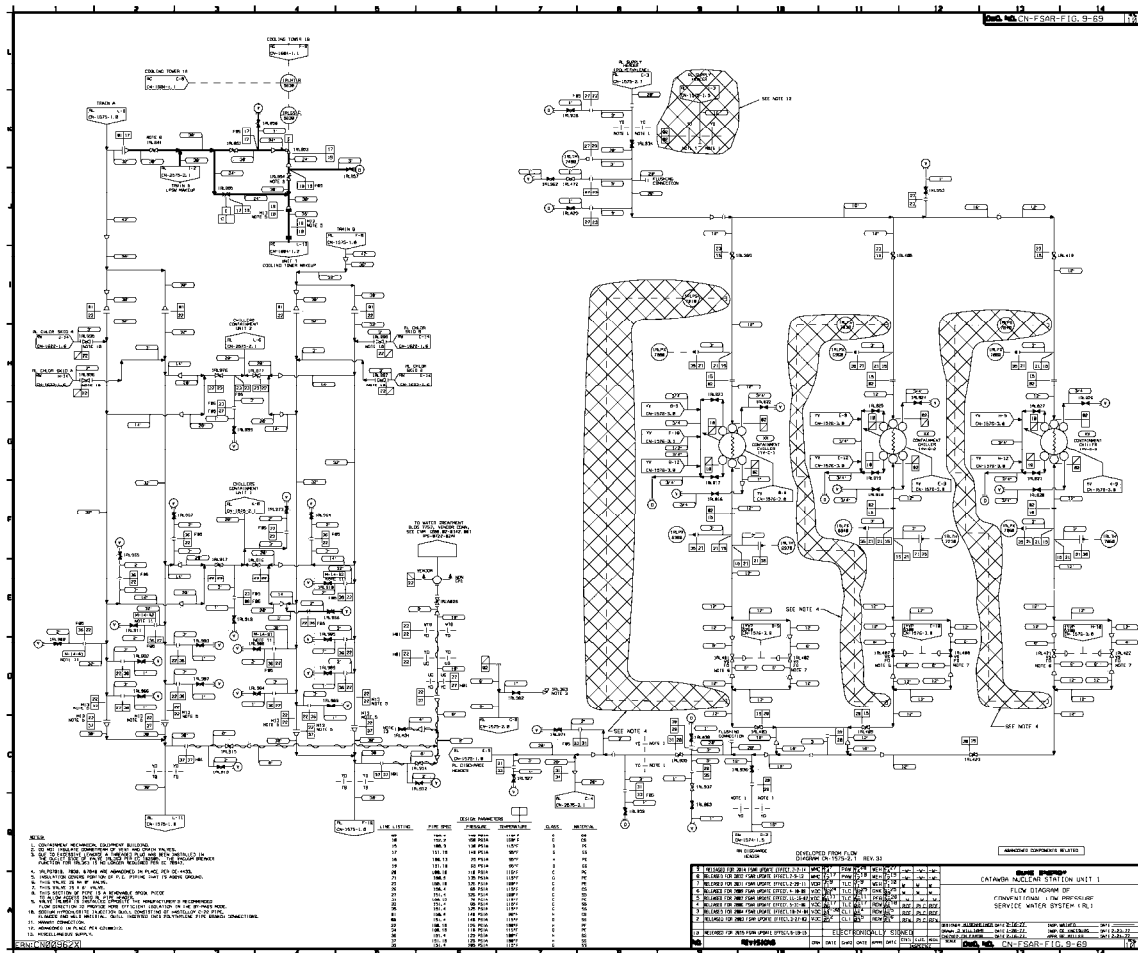


Figure 9-70. Flow Diagram of Instrument Air System

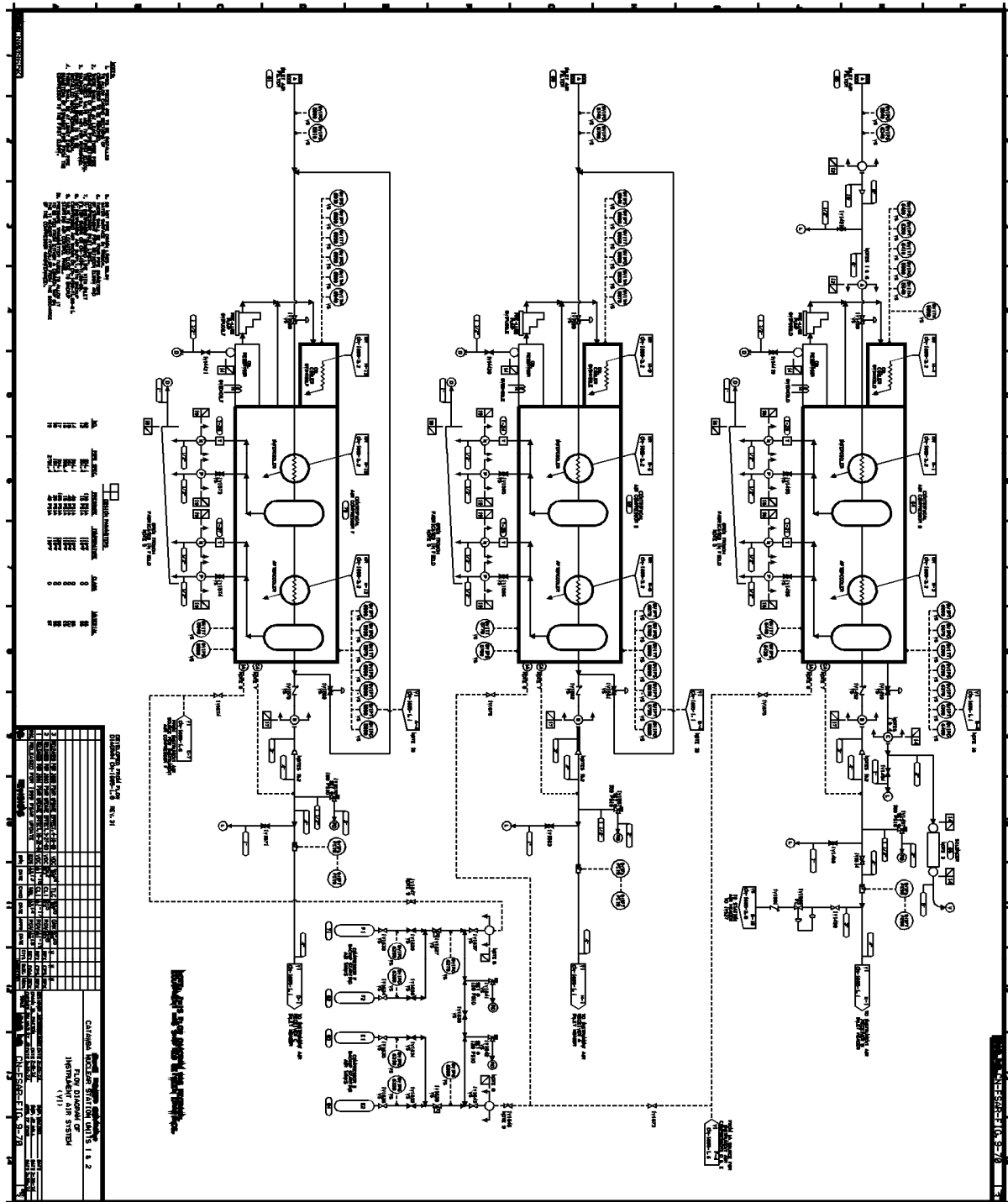




Figure 9-72. Flow Diagram of Instrument Air System

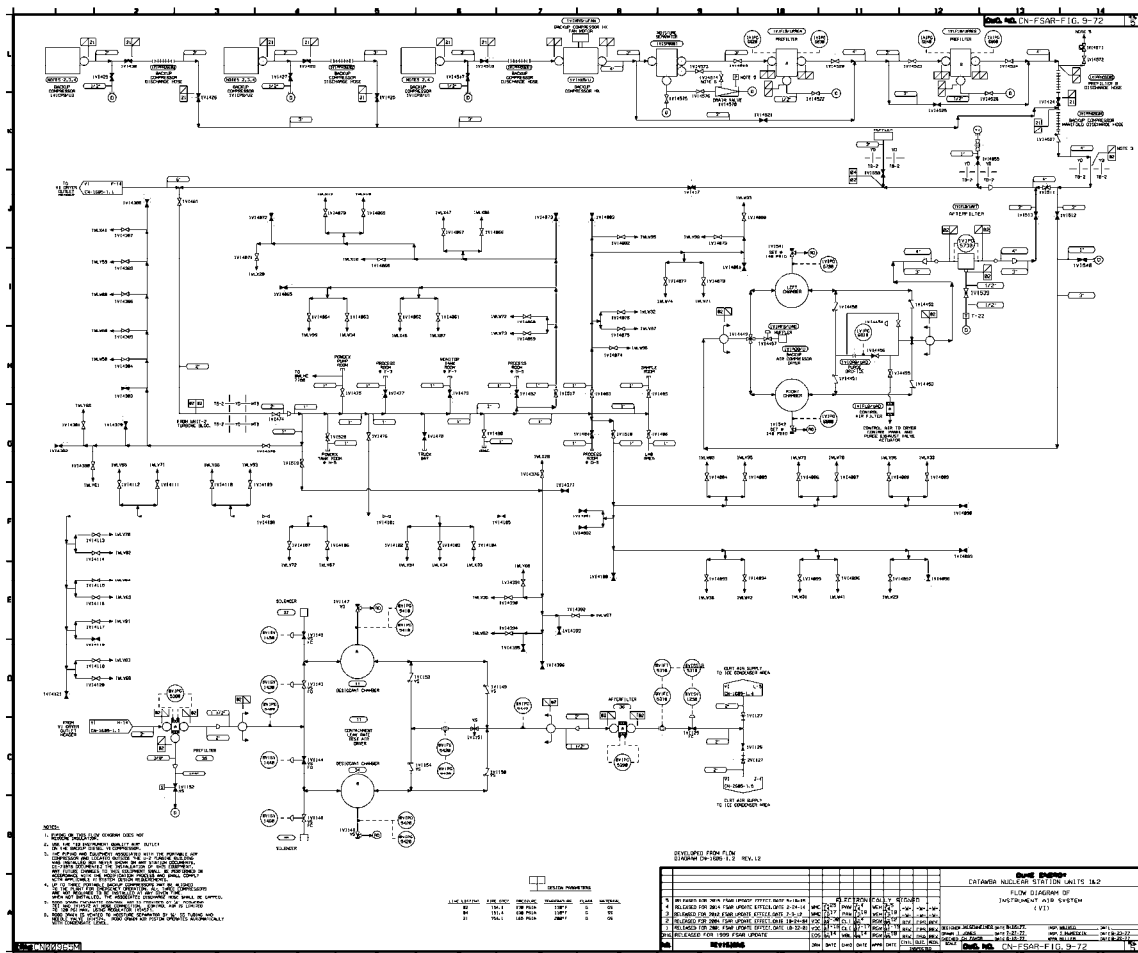


Figure 9-73. Flow Diagram of Station Air System

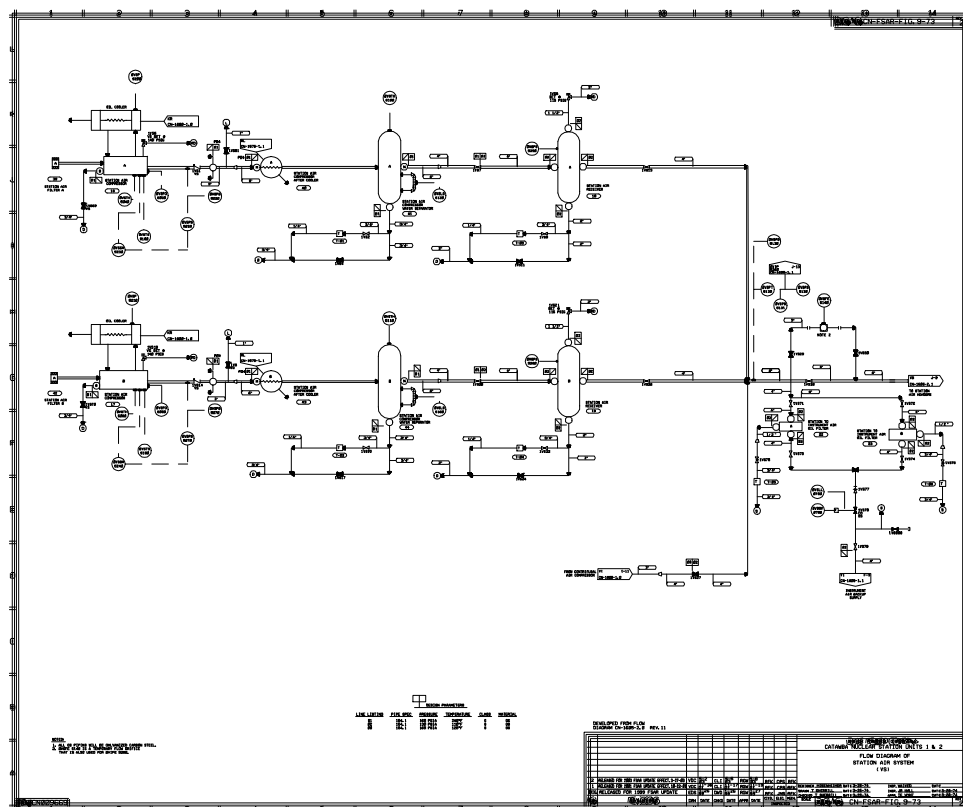








Figure 9-76. Flow Diagram of Breathing Air System

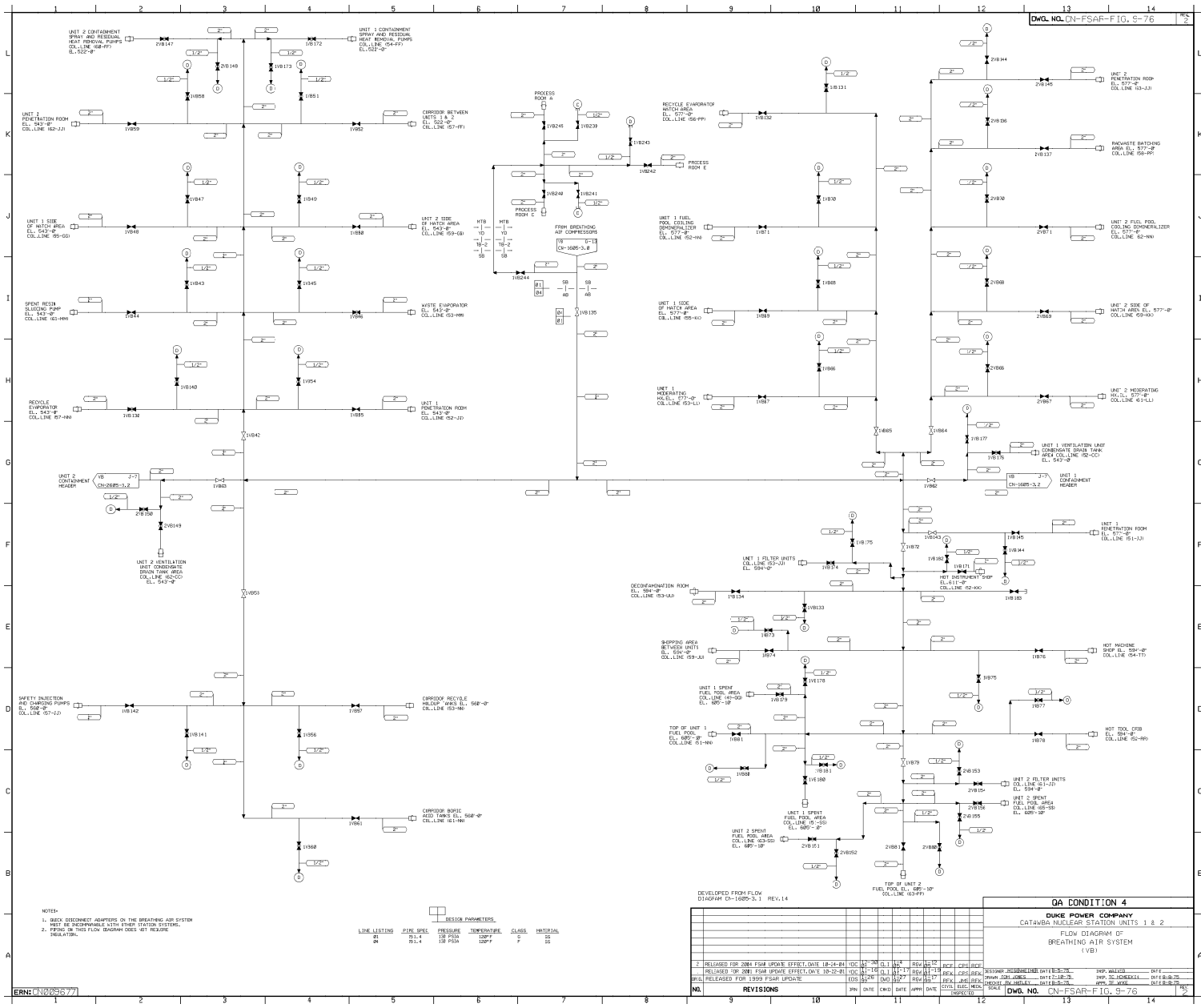
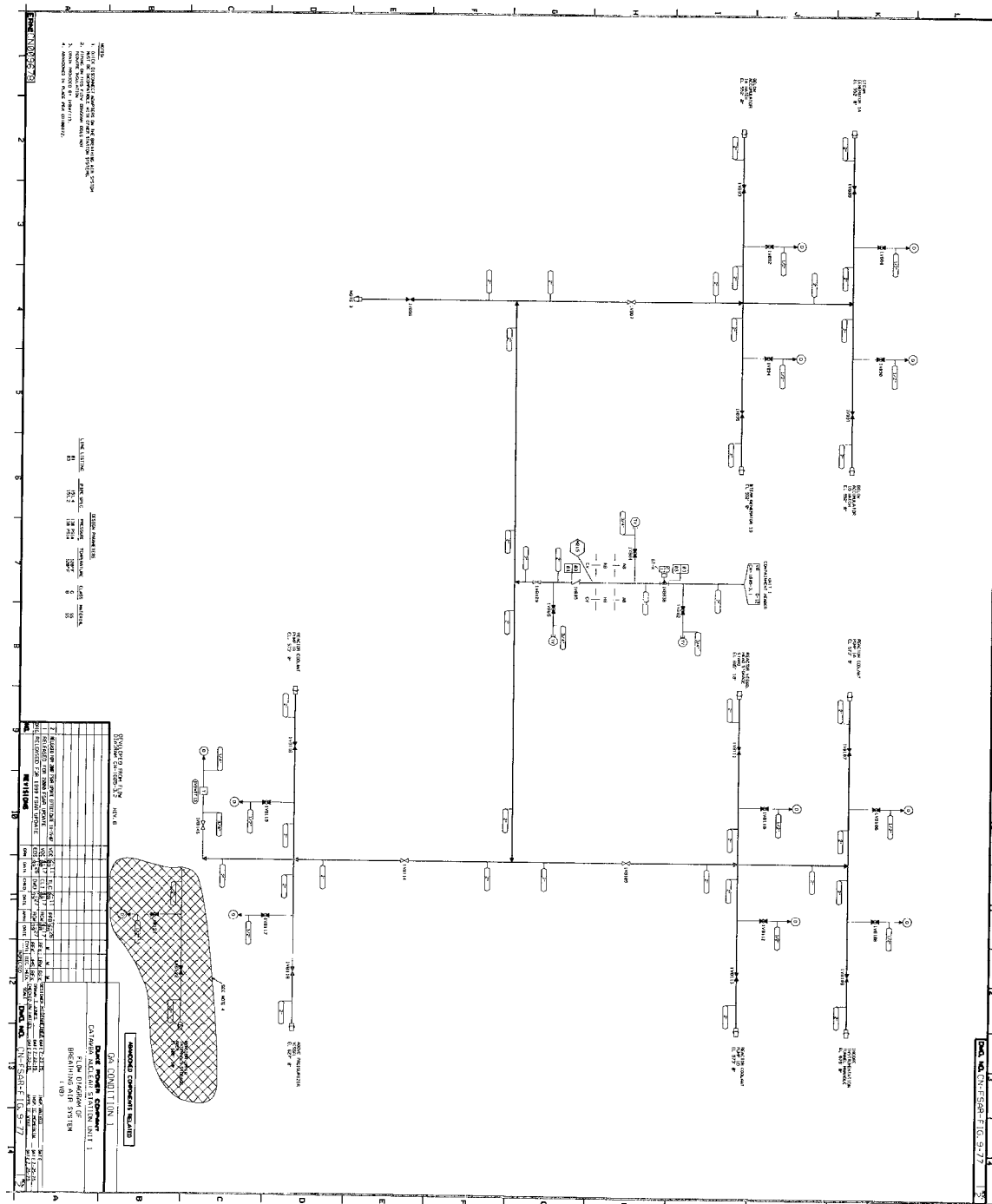


Figure 9-77. Flow Diagram of Breathing Air System



(15 NOV 2007)

[illegible]

[illegible]

Figure 9-80. Flow Diagram of Nuclear Sampling System

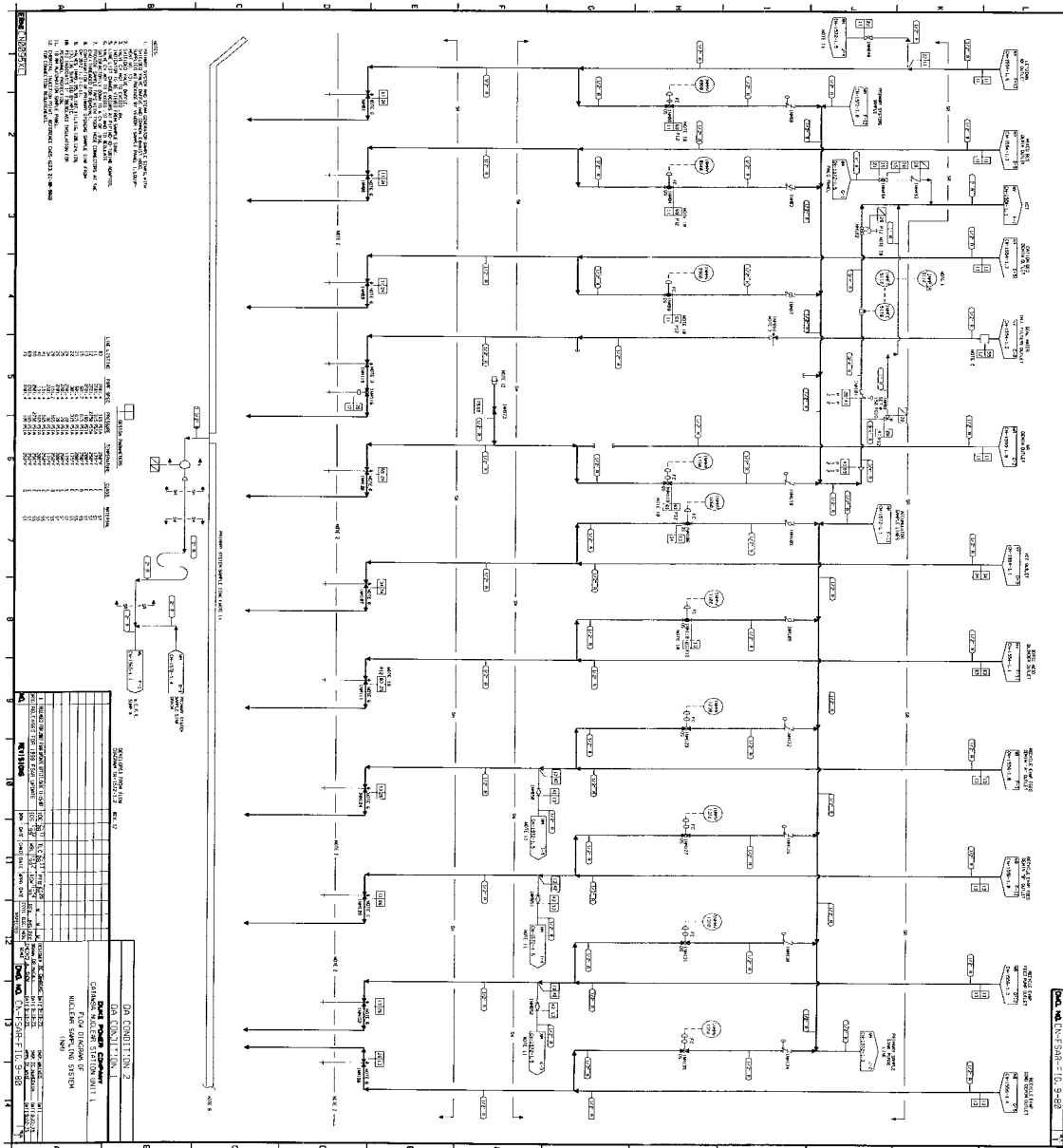


Figure 9-81. Flow Diagram of Nuclear Sampling System

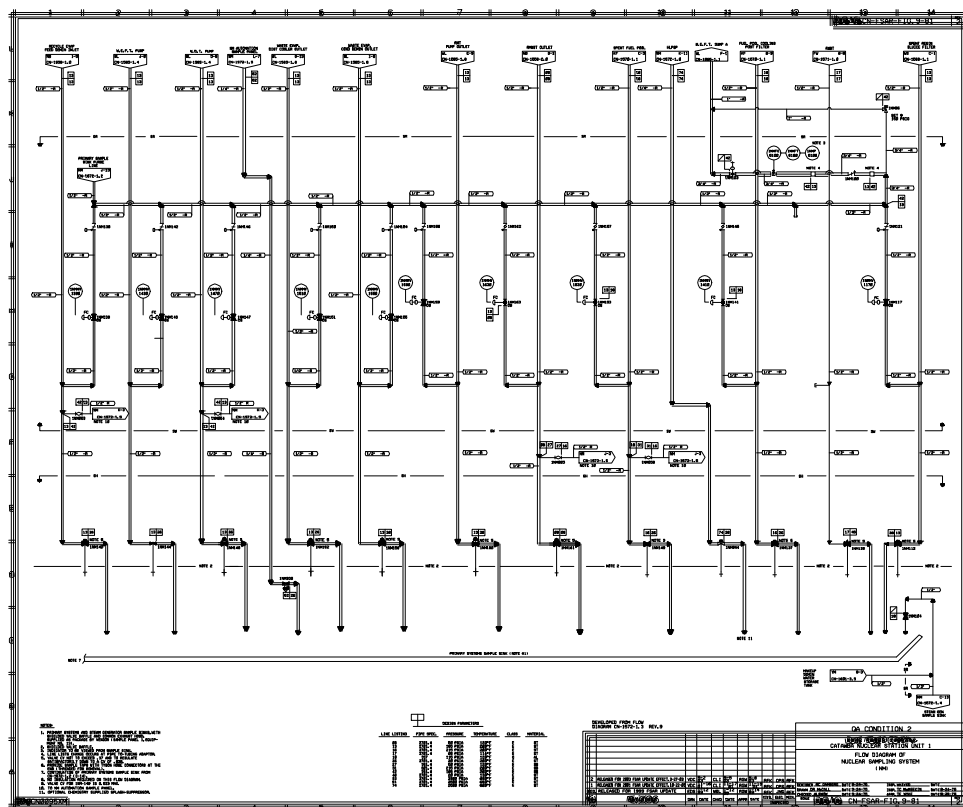


FIG. 9-82

NOTE 1: [Text describing flow direction and pressure]

NOTE 2: [Text describing flow direction and pressure]

NOTE 3: [Text describing flow direction and pressure]

NOTE 4: [Text describing flow direction and pressure]

NOTE 5: [Text describing flow direction and pressure]

NOTE 6: [Text describing flow direction and pressure]

NOTE 7: [Text describing flow direction and pressure]

NOTE 8: [Text describing flow direction and pressure]

NOTE 9: [Text describing flow direction and pressure]

NOTE 10: [Text describing flow direction and pressure]

NOTE 11: [Text describing flow direction and pressure]

NOTE 12: [Text describing flow direction and pressure]

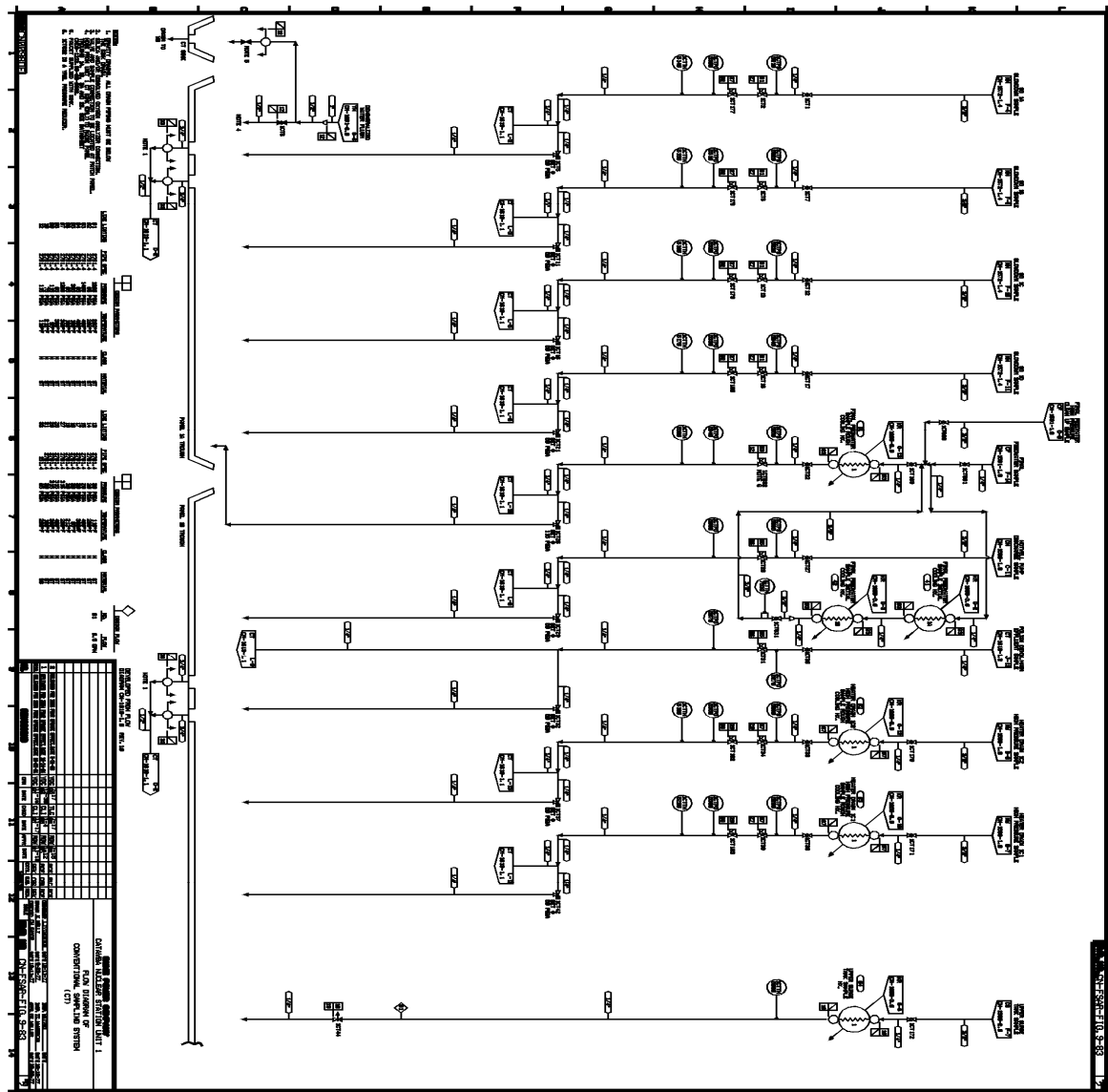
NOTE 13: [Text describing flow direction and pressure]

LEGEND:

- Flow direction
- Pressure
- Temperature

COMPONENT	LOCATION
Reactor Core	Reactor Building
Steam Generator	Reactor Building
Reactor Coolant Pump	Reactor Building
Pressurizer	Reactor Building
Condenser	Condenser Building
Feedwater Pump	Condenser Building
Steam Turbine	Steam Turbine Building
Generator	Steam Turbine Building
Exhaust Gas Stack	Exhaust Gas Stack Building

Figure 9-83. Flow Diagram of Conventional Sampling System



(24 APR 2006)



Figure 9-84. Flow Diagram of Conventional Sampling System

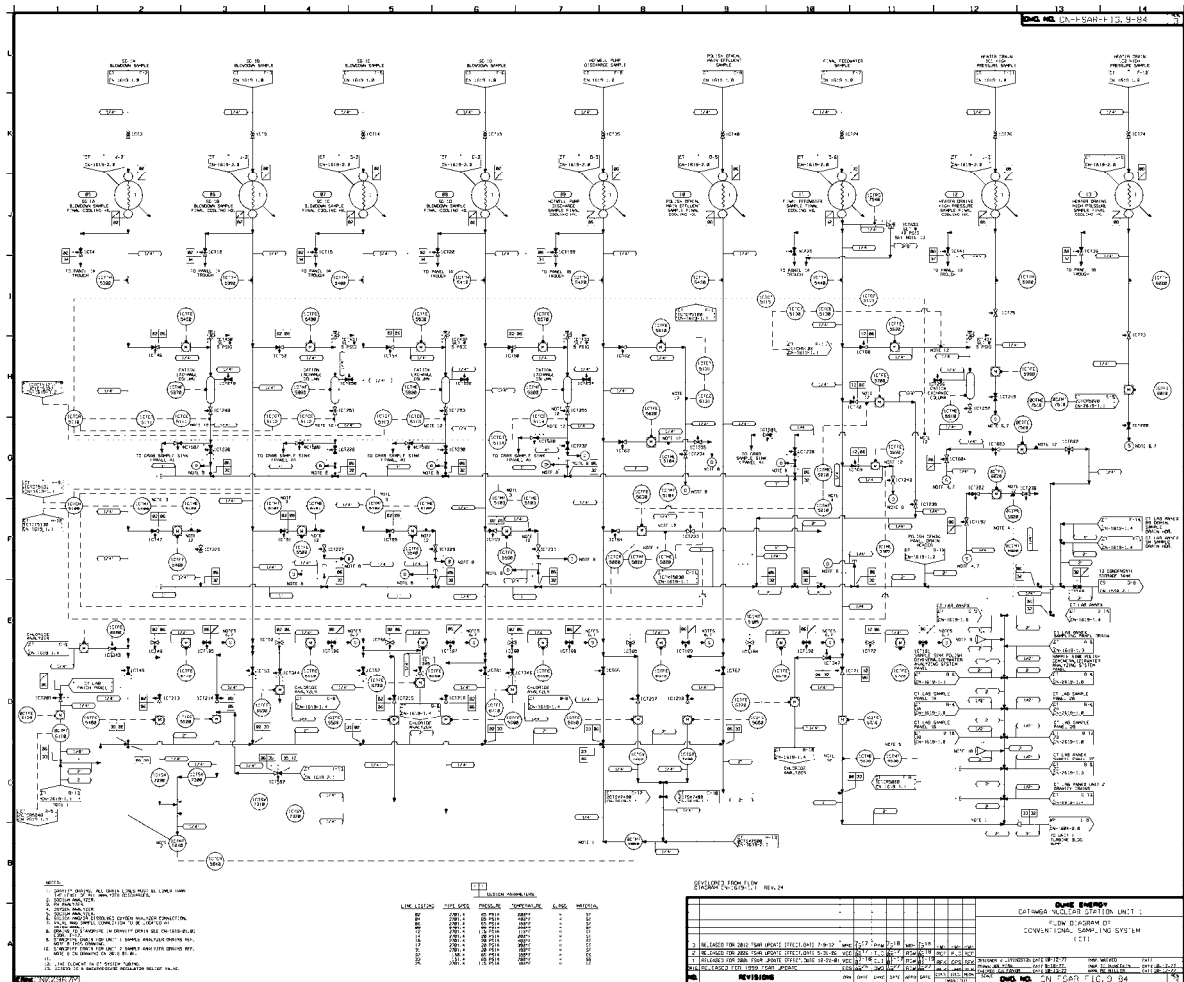
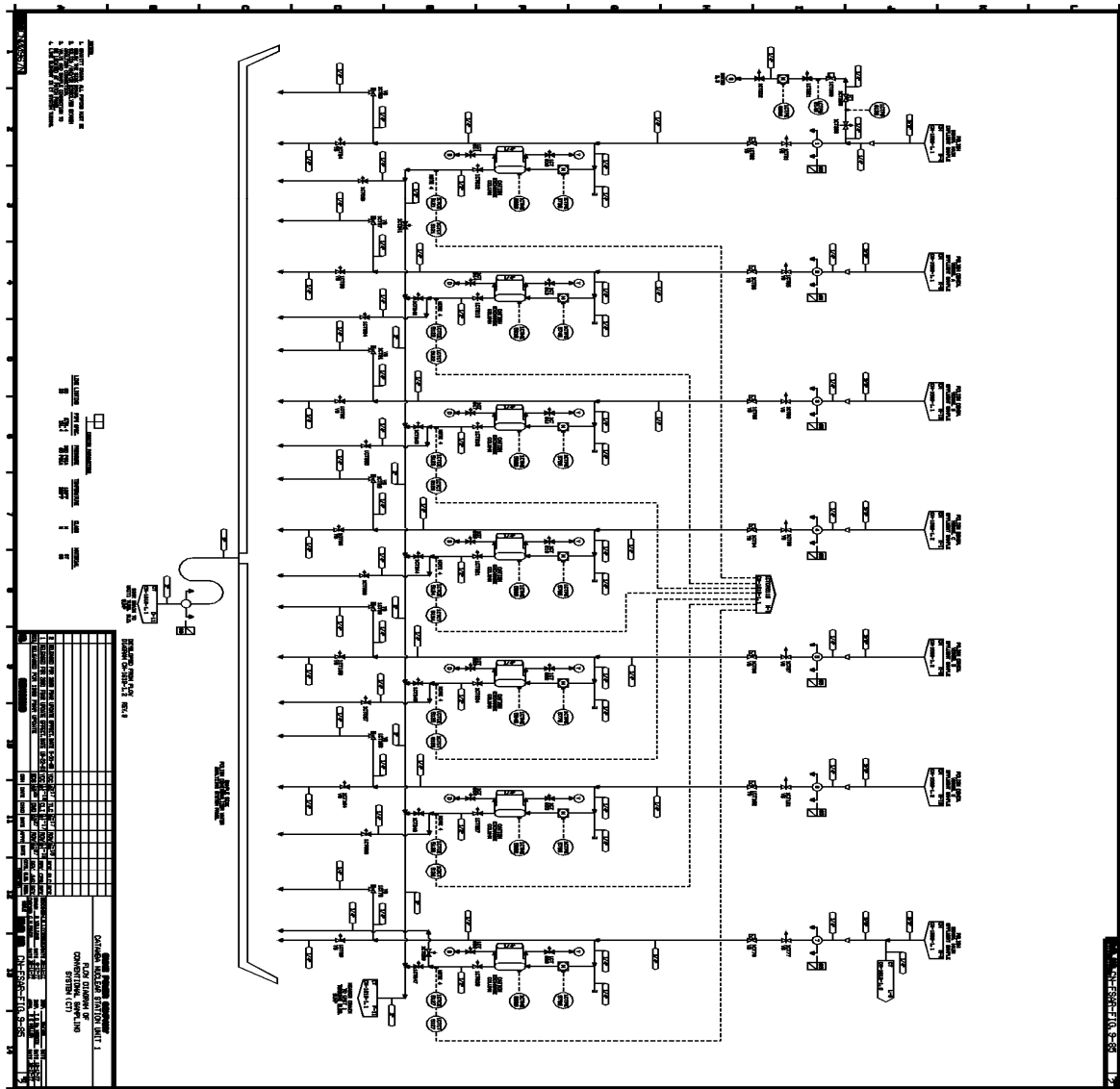


Figure 9-85. Flow Diagram of Conventional Sampling System



(24 APR 2006)

**Figure 9-86. Flow Diagram of Conventional Sampling System**

This figure is currently unavailable in an electronic format. It can be located in a hardcopy version of the FSAR.



**Figure 9-88. Deleted Per 2000 Update.**

Figure 9-89. Flow Diagram of Chemical and Volume Control System

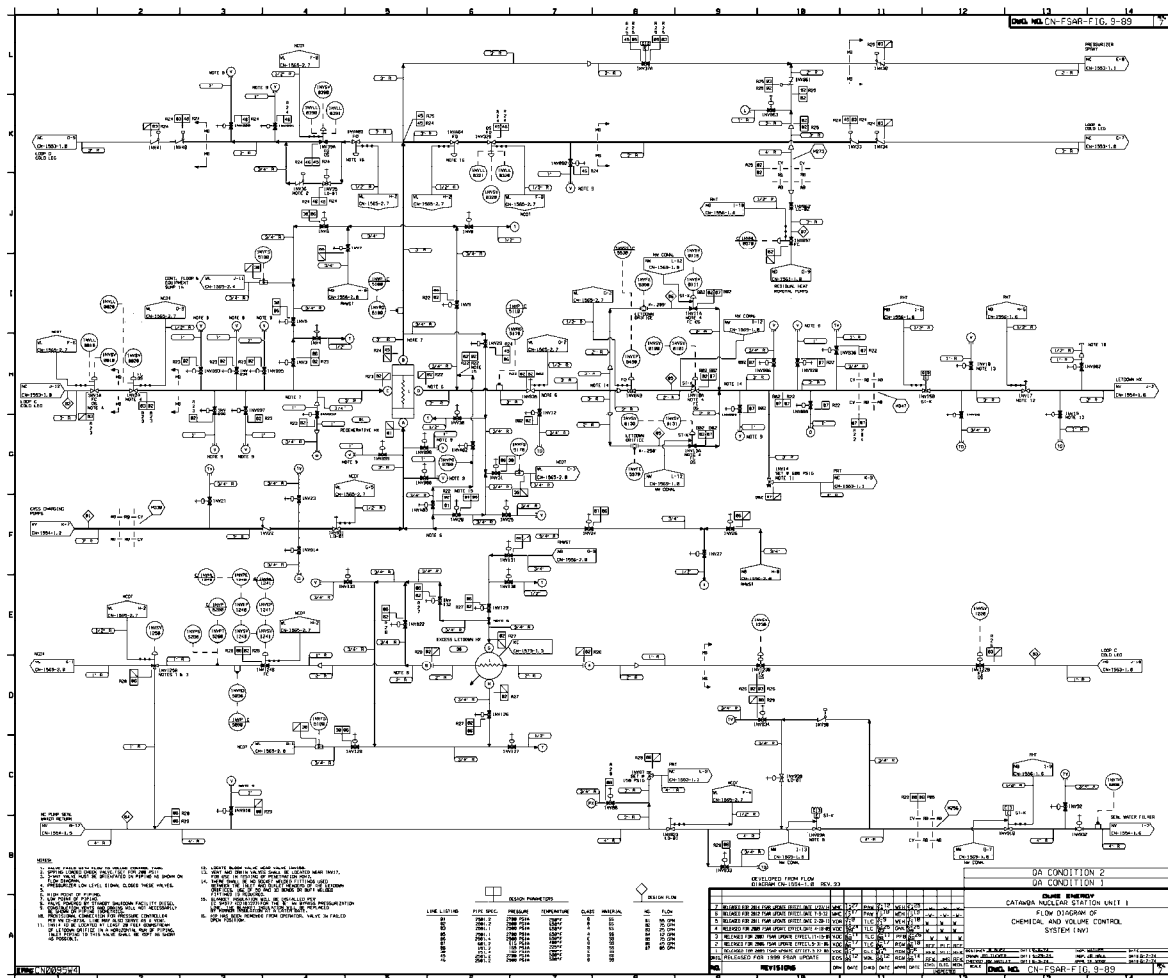


Figure 9-90. Flow Diagram of Chemical and Volume Control System

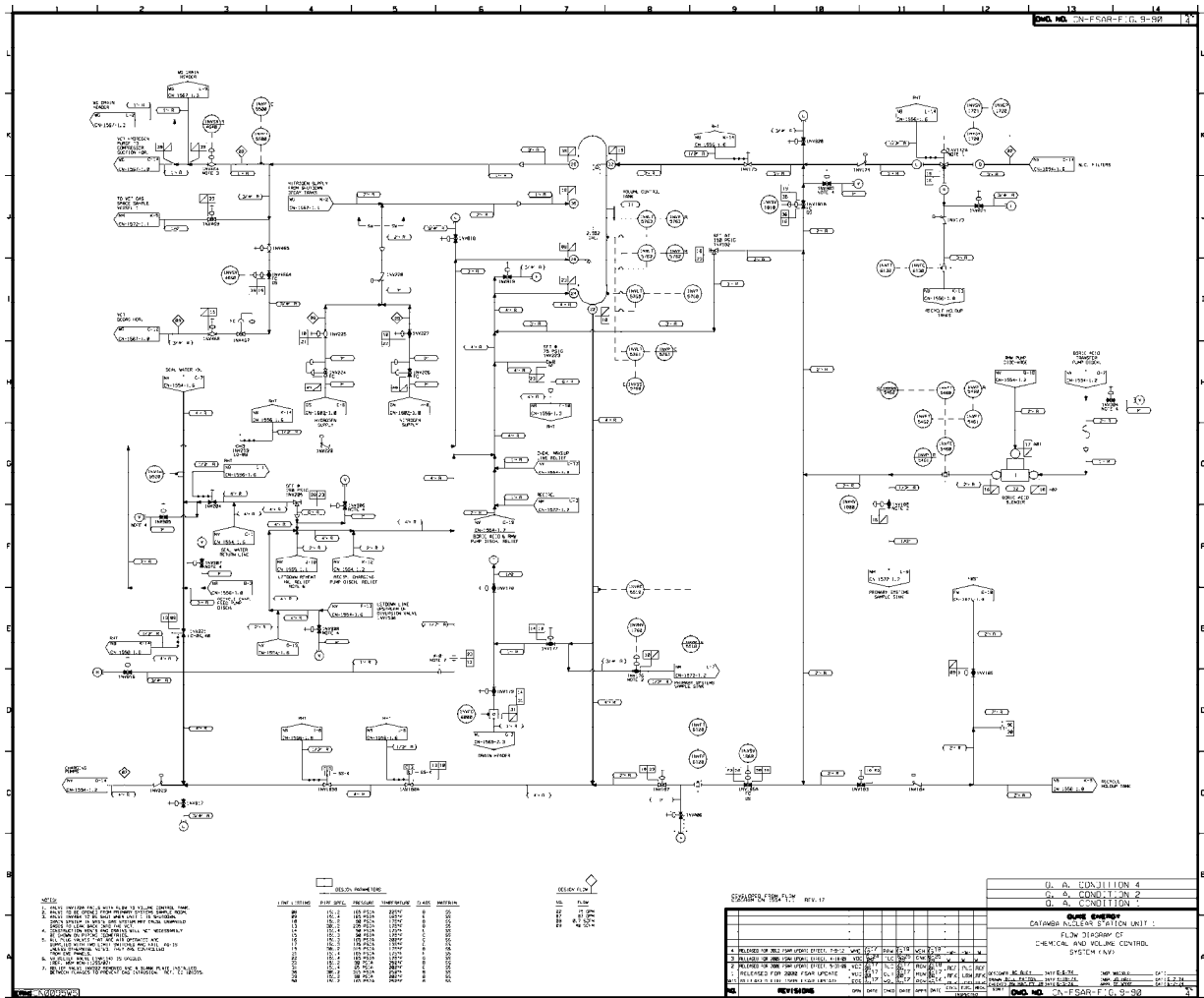


Figure 9-91. Flow Diagram of Chemical and Volume Control System

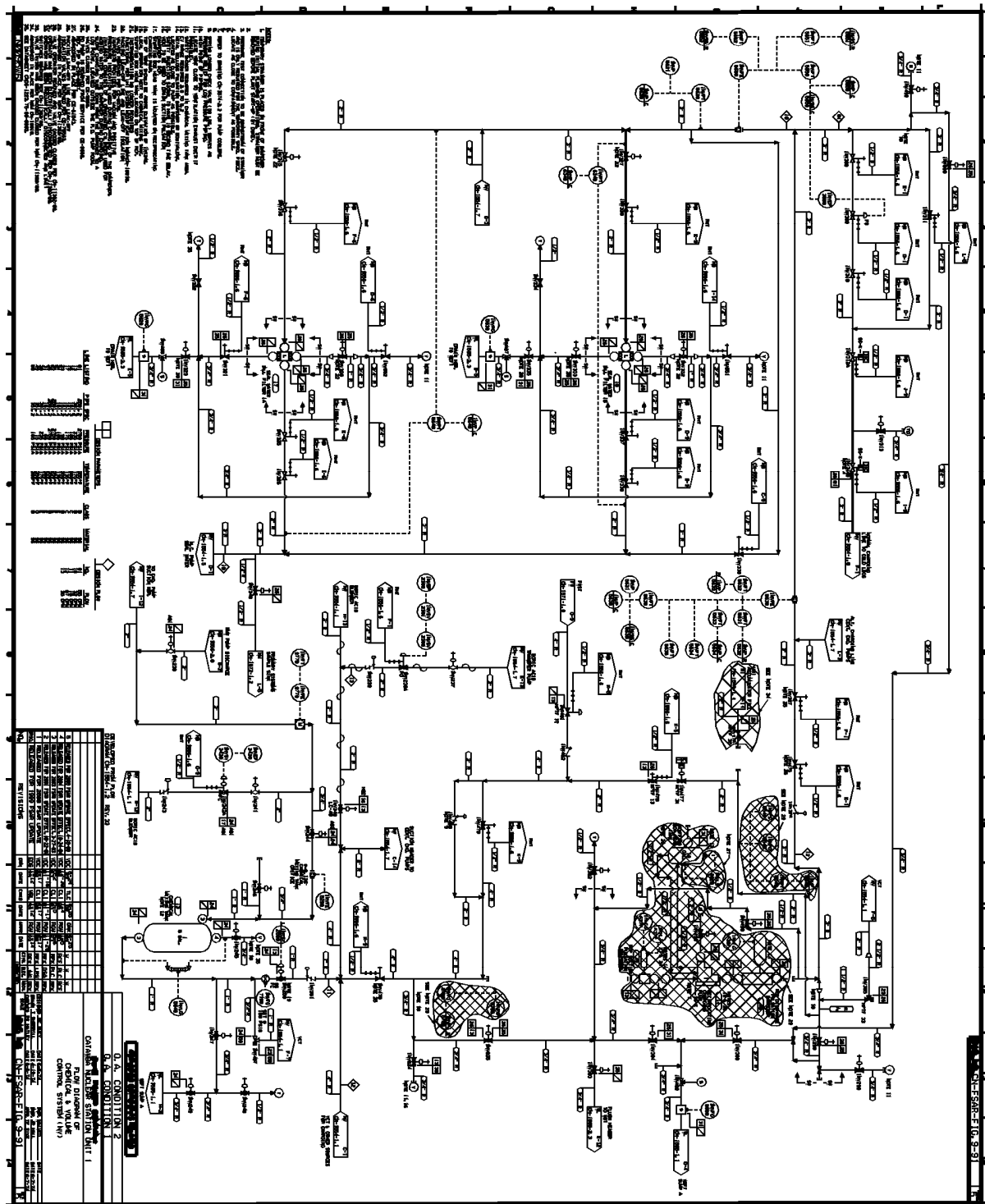
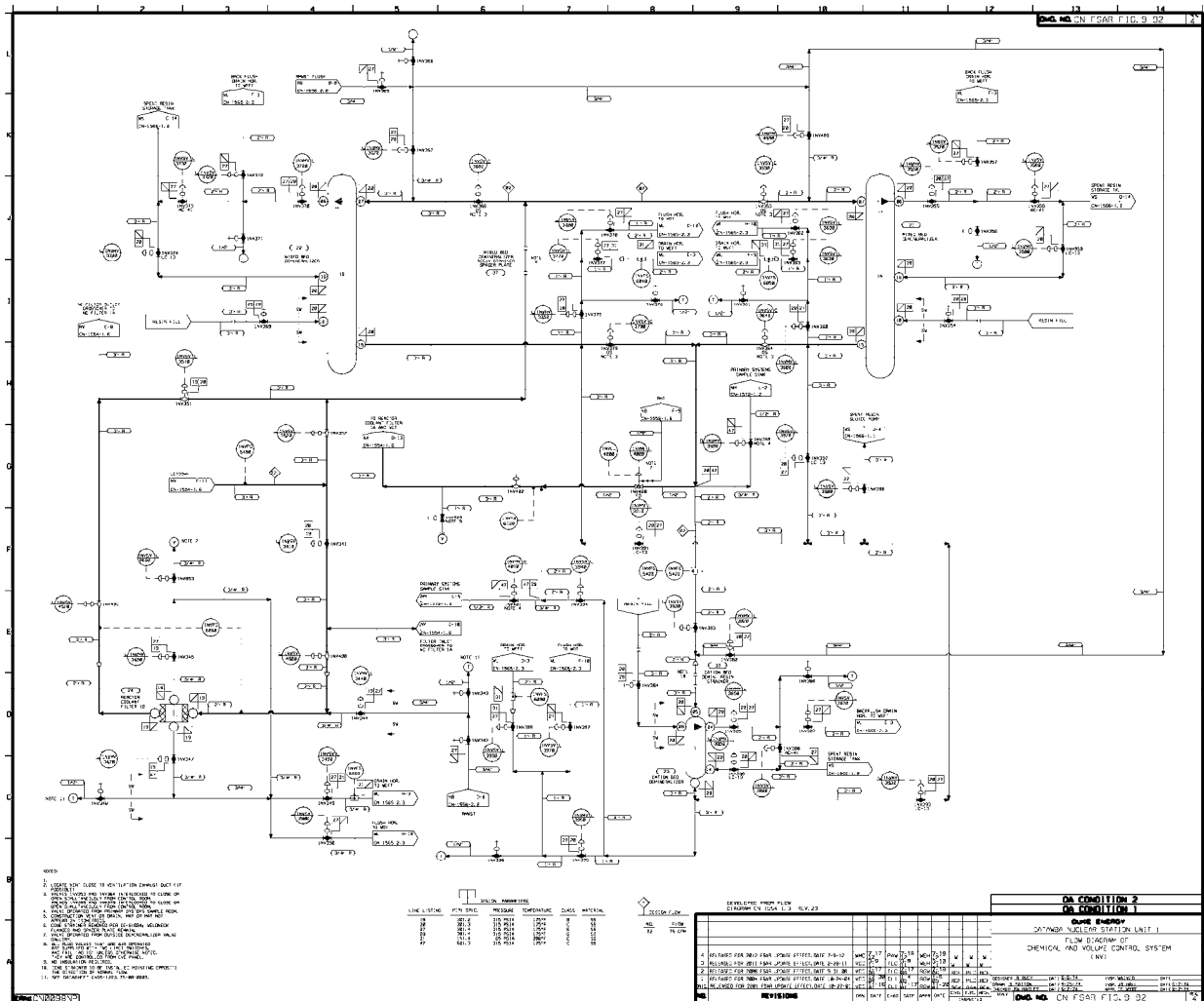


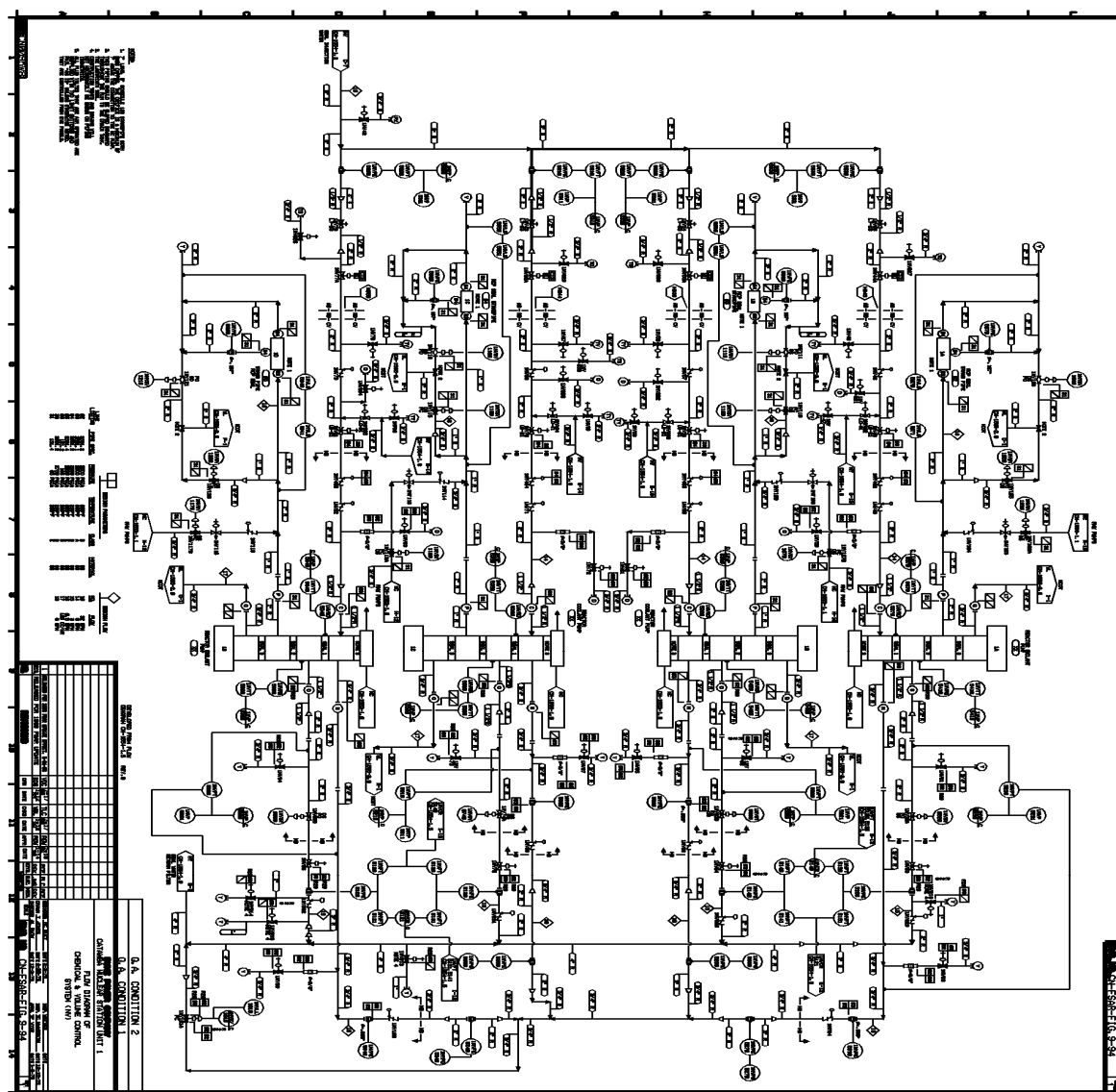


Figure 9-92. Flow Diagram of Chemical and Volume Control System



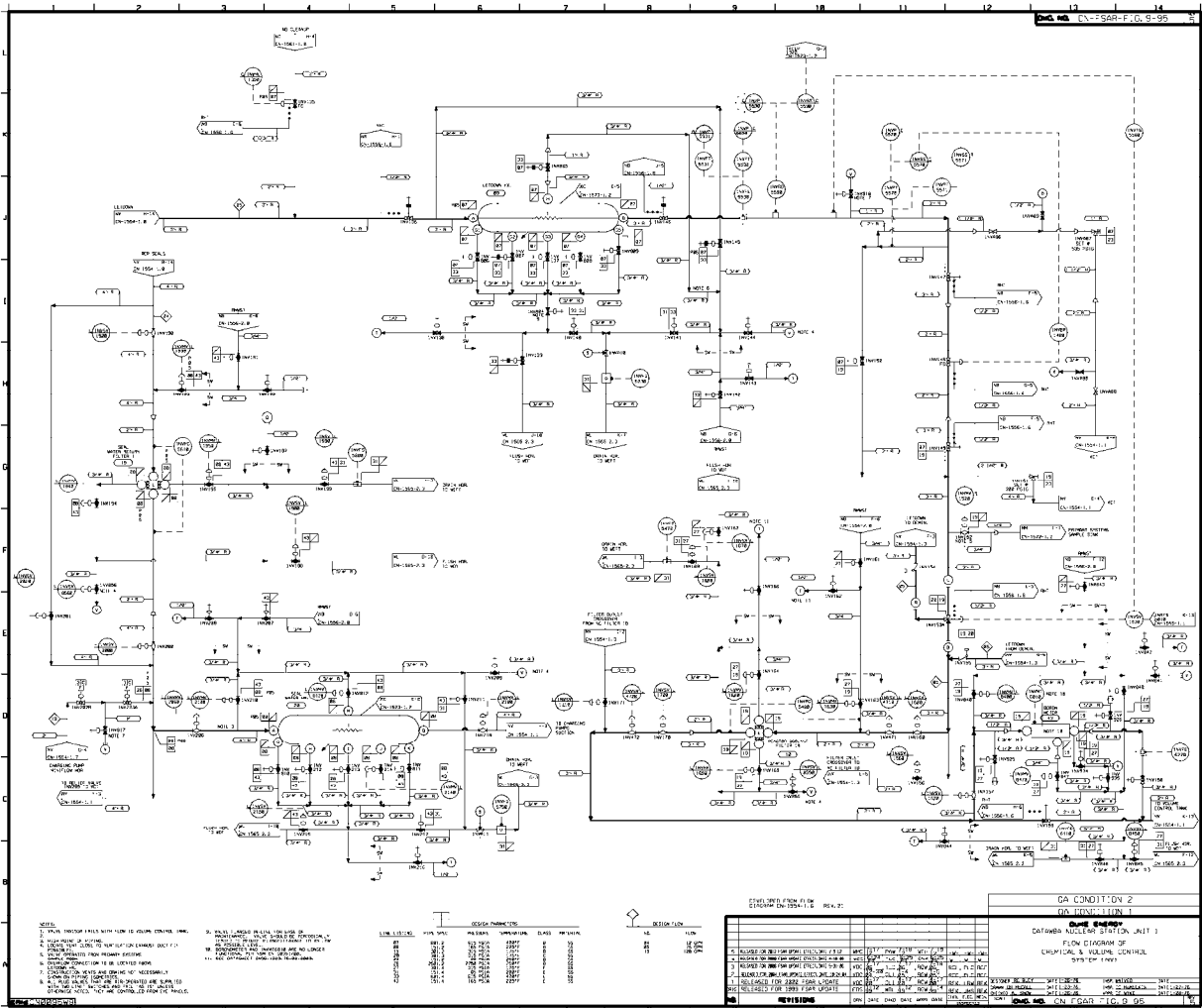
[illegible]

Figure 9-94. Flow Diagram of Chemical and Volume Control System



(24 APR 2006)

Figure 9-95. Flow Diagram of Chemical and Volume Control System



[illegible]

[illegible]

Figure 9-98. Flow Diagram of Boron Recycle System

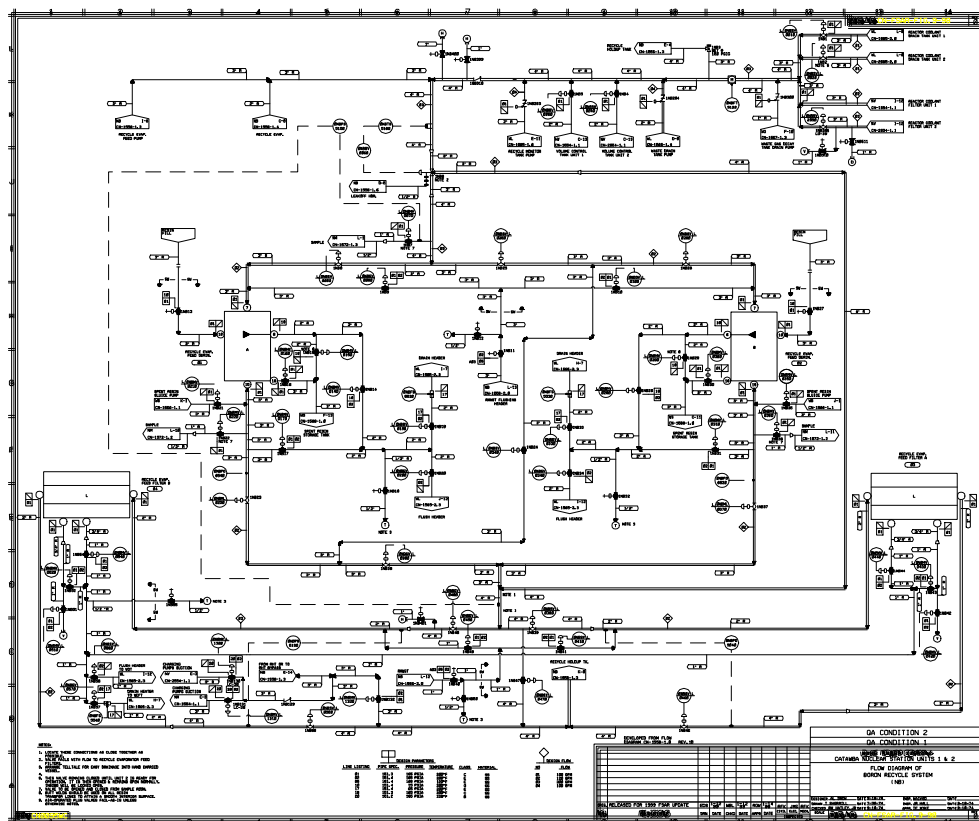






Figure 9-100. Flow Diagram of Boron Recycle System

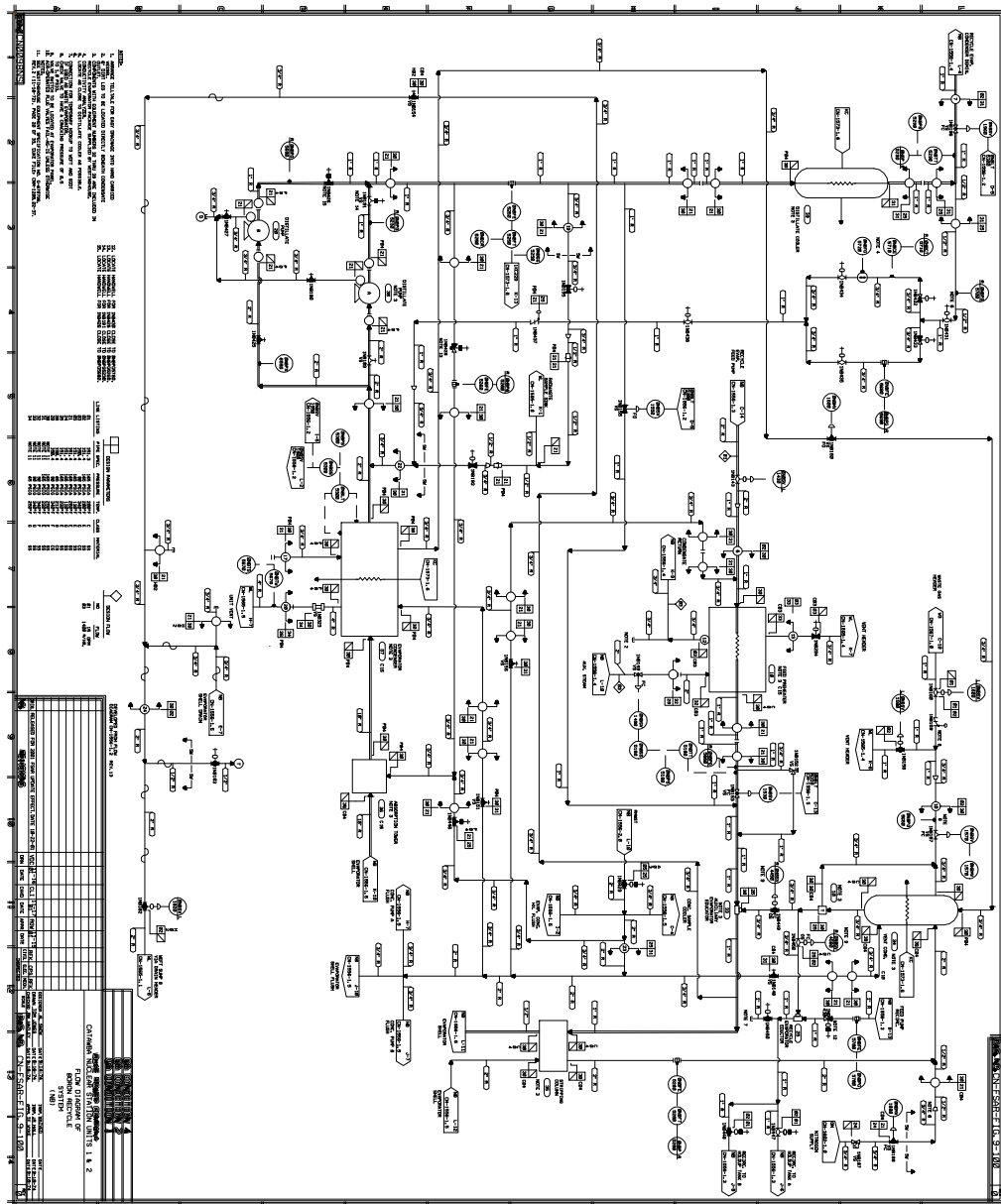
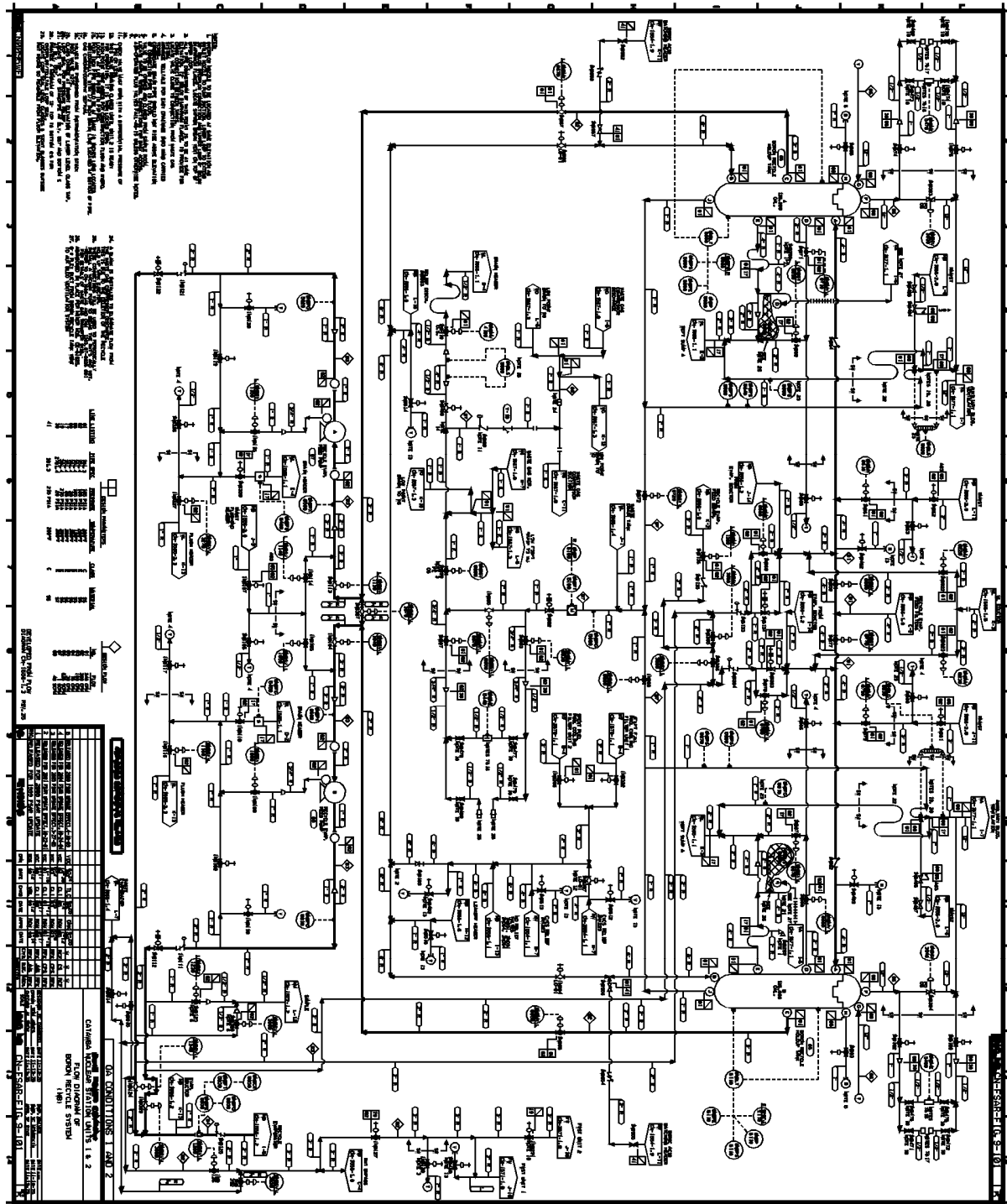


Figure 9-101. Flow Diagram of Boron Recycle System



(18 APR 2009)



1 2 3 4 5 6 7 8 9 10 11 12

DWG NO. DN-FSAR-FIG. 9-183

GA CONDITION 4  
GA CONDITION 2

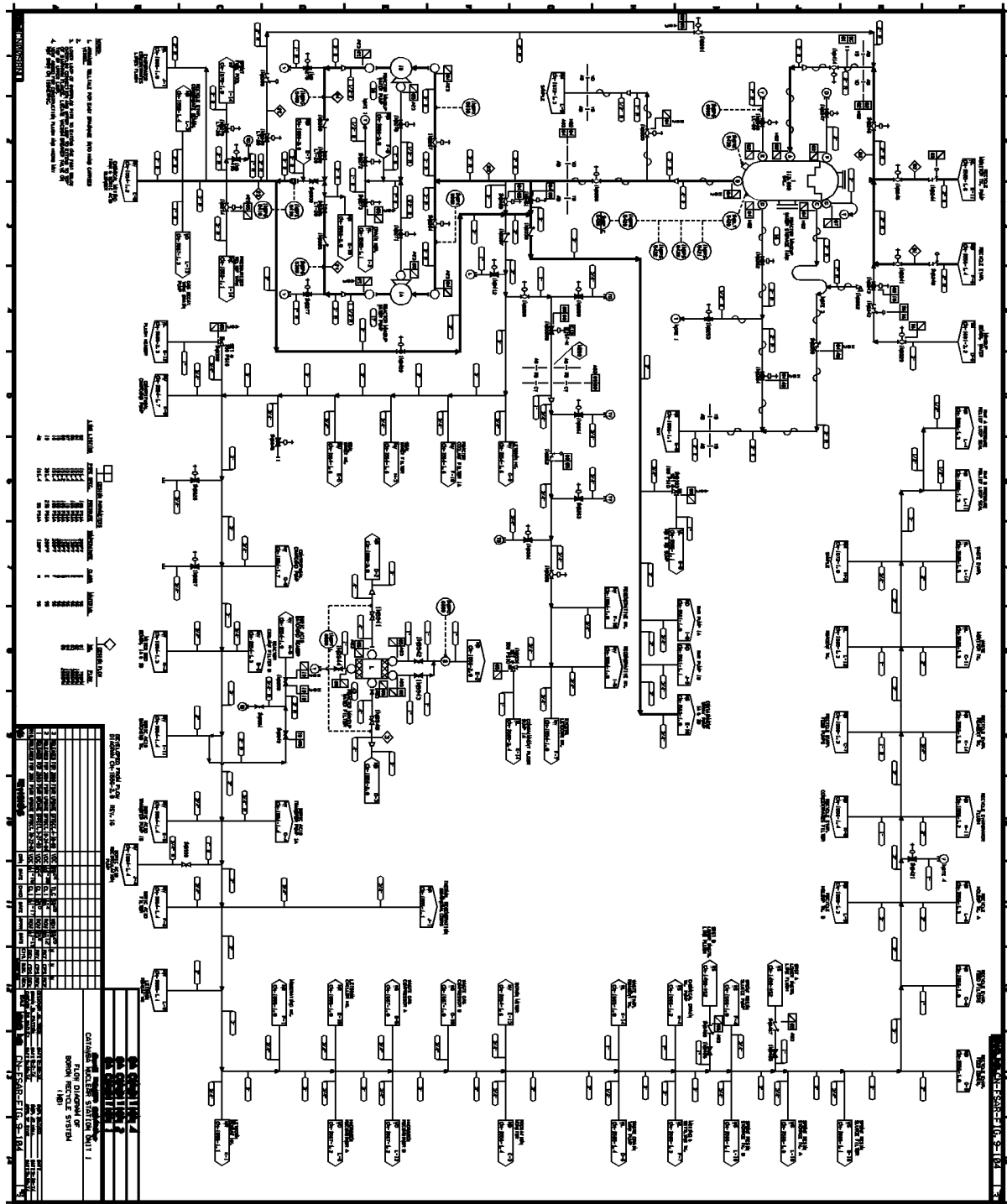
DOWRY NUCLEAR SYSTEM (UNITS 1 & 2)

FLOW DIAGRAM OF  
DOWRY NUCLEAR SYSTEM  
(NMI)

REVISIONS

NO.	DATE	BY	CHKD.	REVISION
1	10-1-77	W. J. H.	W. J. H.	INITIAL DESIGN
2	10-1-77	W. J. H.	W. J. H.	REVISION 1
3	10-1-77	W. J. H.	W. J. H.	REVISION 2
4	10-1-77	W. J. H.	W. J. H.	REVISION 3
5	10-1-77	W. J. H.	W. J. H.	REVISION 4
6	10-1-77	W. J. H.	W. J. H.	REVISION 5
7	10-1-77	W. J. H.	W. J. H.	REVISION 6
8	10-1-77	W. J. H.	W. J. H.	REVISION 7
9	10-1-77	W. J. H.	W. J. H.	REVISION 8
10	10-1-77	W. J. H.	W. J. H.	REVISION 9
11	10-1-77	W. J. H.	W. J. H.	REVISION 10
12	10-1-77	W. J. H.	W. J. H.	REVISION 11
13	10-1-77	W. J. H.	W. J. H.	REVISION 12
14	10-1-77	W. J. H.	W. J. H.	REVISION 13
15	10-1-77	W. J. H.	W. J. H.	REVISION 14
16	10-1-77	W. J. H.	W. J. H.	REVISION 15
17	10-1-77	W. J. H.	W. J. H.	REVISION 16
18	10-1-77	W. J. H.	W. J. H.	REVISION 17
19	10-1-77	W. J. H.	W. J. H.	REVISION 18
20	10-1-77	W. J. H.	W. J. H.	REVISION 19
21	10-1-77	W. J. H.	W. J. H.	REVISION 20
22	10-1-77	W. J. H.	W. J. H.	REVISION 21
23	10-1-77	W. J. H.	W. J. H.	REVISION 22
24	10-1-77	W. J. H.	W. J. H.	REVISION 23
25	10-1-77	W. J. H.	W. J. H.	REVISION 24
26	10-1-77	W. J. H.	W. J. H.	REVISION 25
27	10-1-77	W. J. H.	W. J. H.	REVISION 26
28	10-1-77	W. J. H.	W. J. H.	REVISION 27
29	10-1-77	W. J. H.	W. J. H.	REVISION 28
30	10-1-77	W. J. H.	W. J. H.	REVISION 29
31	10-1-77	W. J. H.	W. J. H.	REVISION 30
32	10-1-77	W. J. H.	W. J. H.	REVISION 31
33	10-1-77	W. J. H.	W. J. H.	REVISION 32
34	10-1-77	W. J. H.	W. J. H.	REVISION 33
35	10-1-77	W. J. H.	W. J. H.	REVISION 34
36	10-1-77	W. J. H.	W. J. H.	REVISION 35
37	10-1-77	W. J. H.	W. J. H.	REVISION 36
38	10-1-77	W. J. H.	W. J. H.	REVISION 37
39	10-1-77	W. J. H.	W. J. H.	REVISION 38
40	10-1-77	W. J. H.	W. J. H.	REVISION 39
41	10-1-77	W. J. H.	W. J. H.	REVISION 40
42	10-1-77	W. J. H.	W. J. H.	REVISION 41
43	10-1-77	W. J. H.	W. J. H.	REVISION 42
44	10-1-77	W. J. H.	W. J. H.	REVISION 43
45	10-1-77	W. J. H.	W. J. H.	REVISION 44
46	10-1-77	W. J. H.	W. J. H.	REVISION 45
47	10-1-77	W. J. H.	W. J. H.	REVISION 46
48	10-1-77	W. J. H.	W. J. H.	REVISION 47
49	10-1-77	W. J. H.	W. J. H.	REVISION 48
50	10-1-77	W. J. H.	W. J. H.	REVISION 49
51	10-1-77	W. J. H.	W. J. H.	REVISION 50
52	10-1-77	W. J. H.	W. J. H.	REVISION 51
53	10-1-77	W. J. H.	W. J. H.	REVISION 52
54	10-1-77	W. J. H.	W. J. H.	REVISION 53
55	10-1-77	W. J. H.	W. J. H.	REVISION 54
56	10-1-77	W. J. H.	W. J. H.	REVISION 55
57	10-1-77	W. J. H.	W. J. H.	REVISION 56
58	10-1-77	W. J. H.	W. J. H.	REVISION 57
59	10-1-77	W. J. H.	W. J. H.	REVISION 58
60	10-1-77	W. J. H.	W. J. H.	REVISION 59
61	10-1-77	W. J. H.	W. J. H.	REVISION 60
62	10-1-77	W. J. H.	W. J. H.	REVISION 61
63	10-1-77	W. J. H.	W. J. H.	REVISION 62

Figure 9-104. Flow Diagram of Boron Recycle System

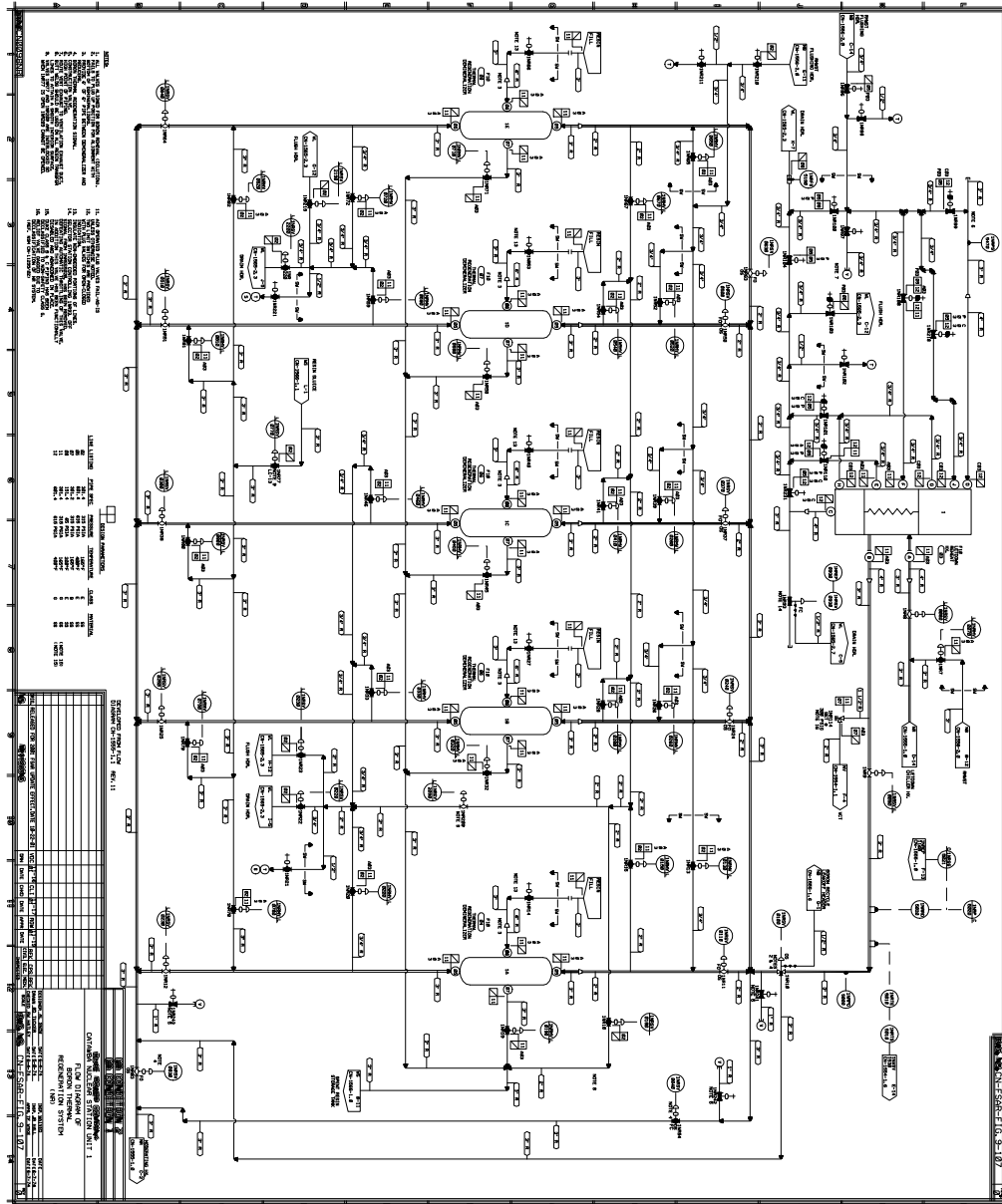


(18 APR 2009)

[illegible]



Figure 9-107. Flow Diagram of Boron Thermal Regeneration System





[illegible]



Figure 9-110. Flow Diagram of Control Room Area Ventilation System

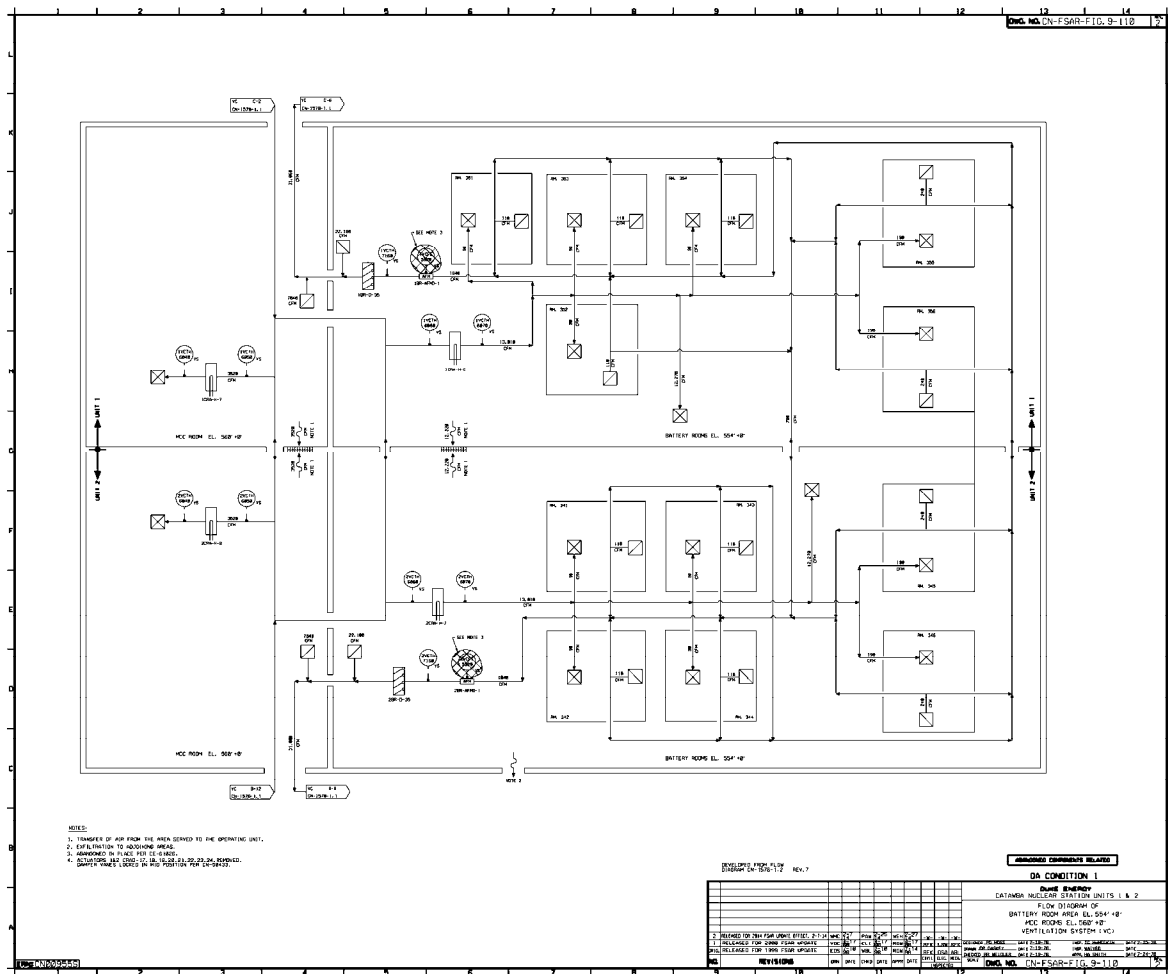


Figure 9-111. Flow Diagram of Battery Room Area Ventilation System EL. 554' + 0'

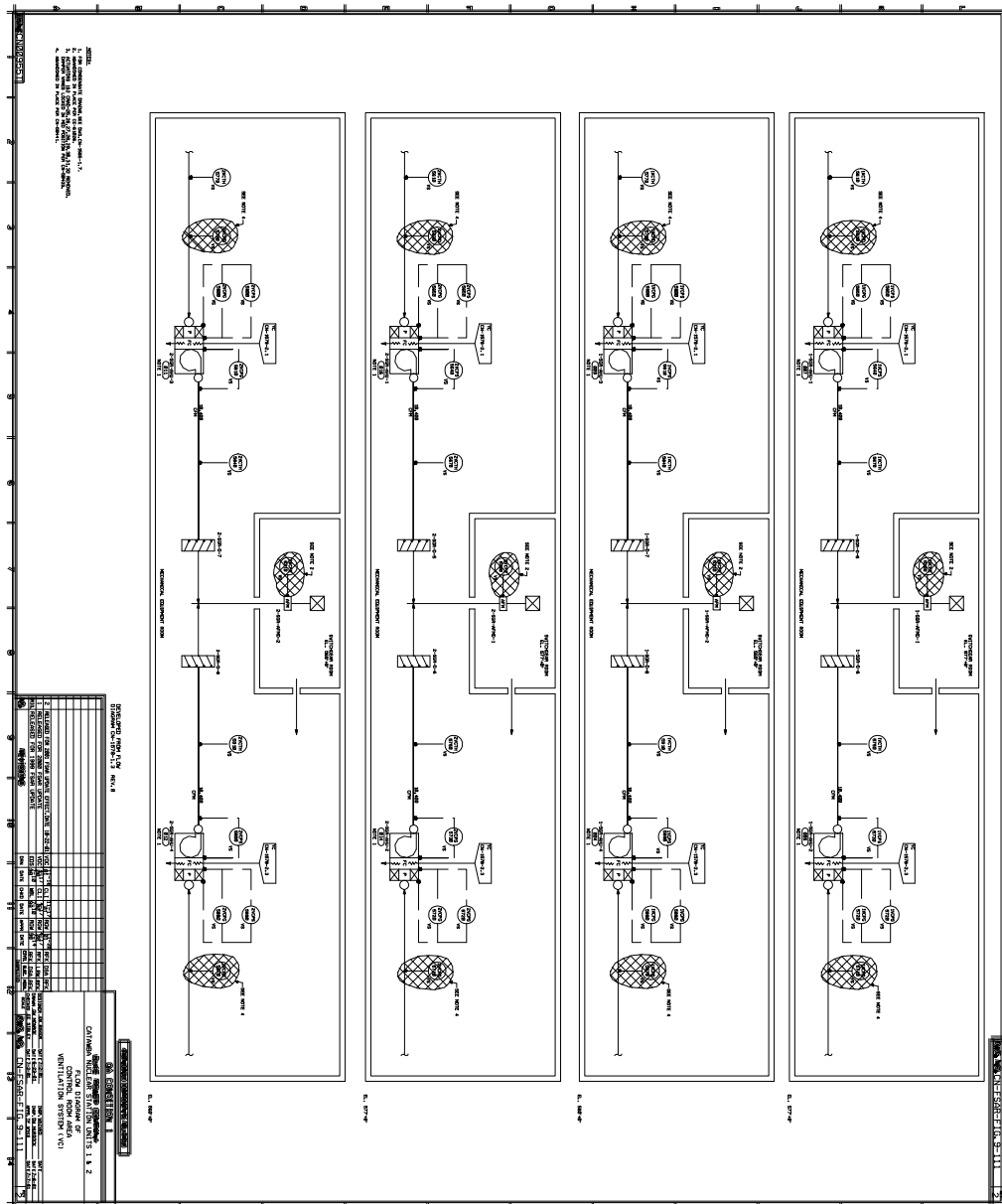


Figure 9-112. Flow Diagram of Control Area Chilled Water System

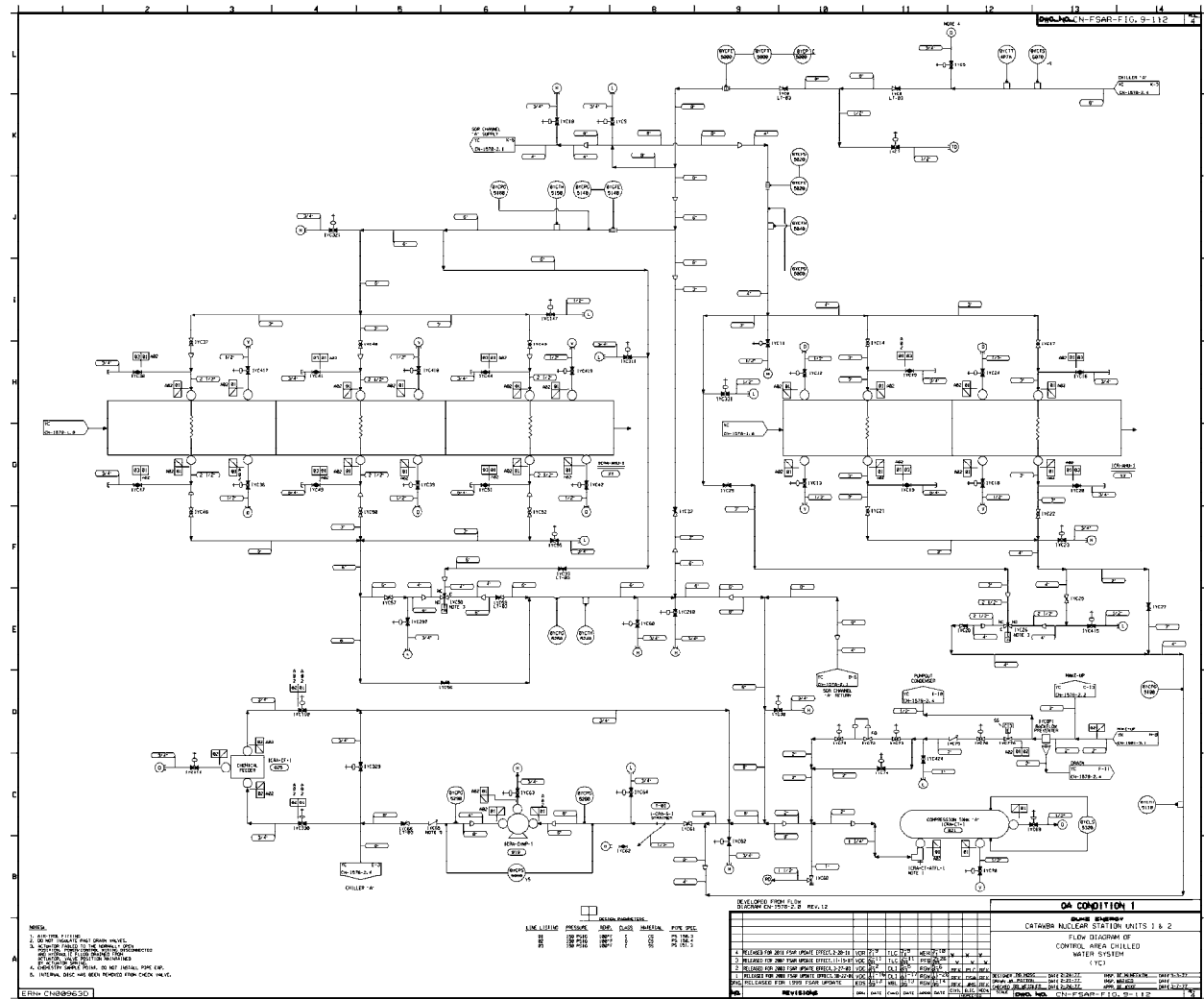


Figure 9-113. Flow Diagram of Control Area Chilled Water System

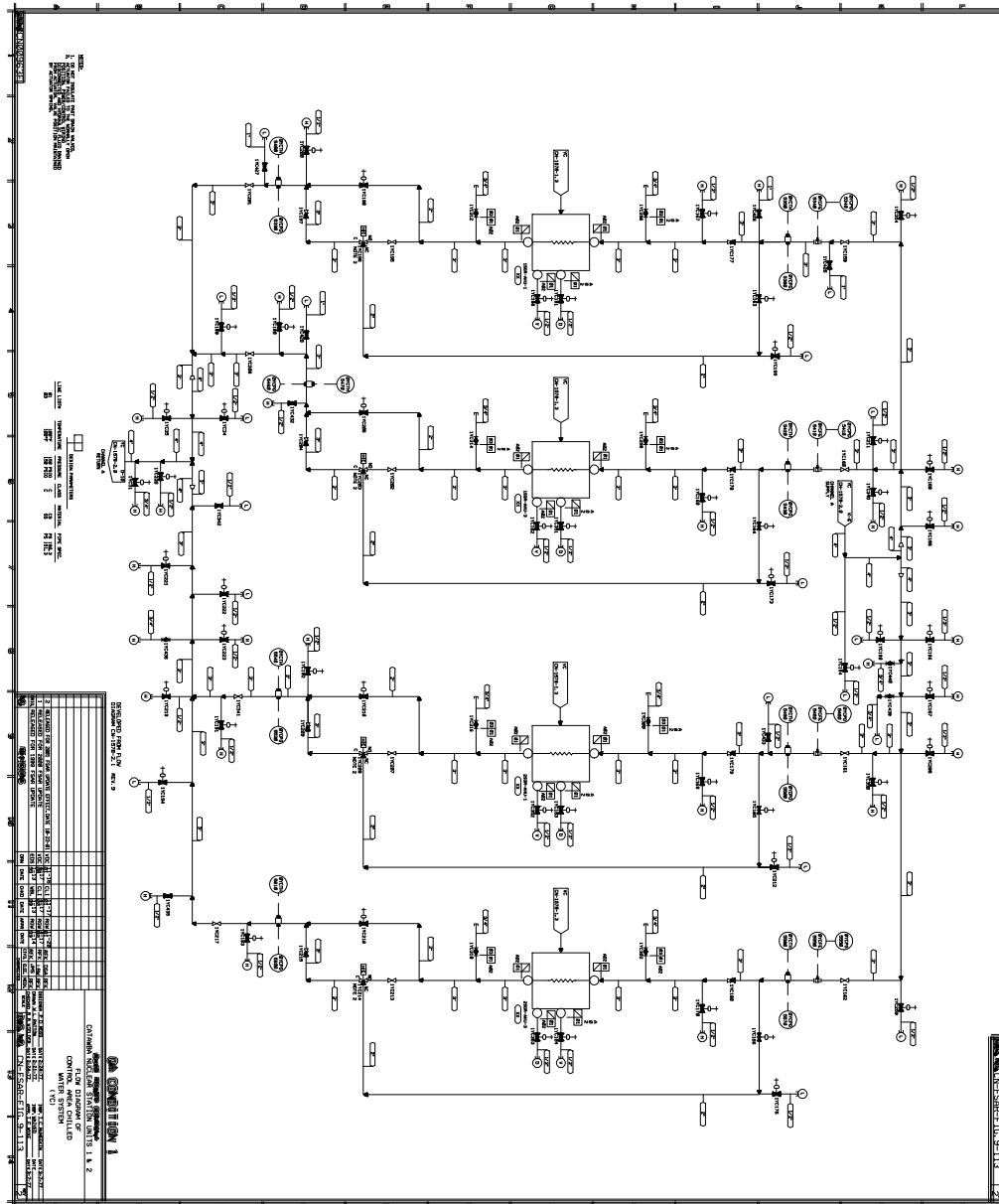


Figure 9-114. Flow Diagram of Control Area Chilled Water System

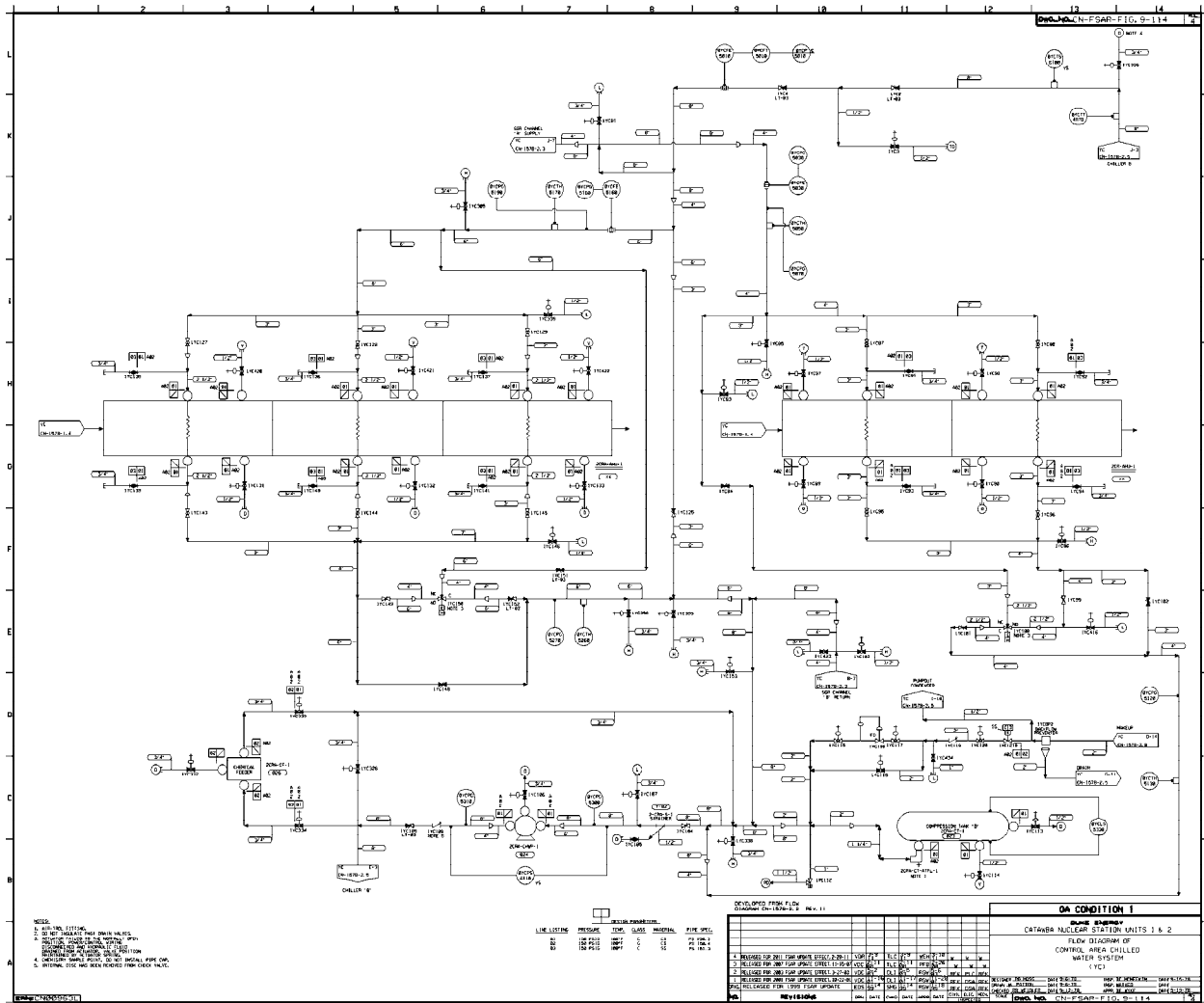
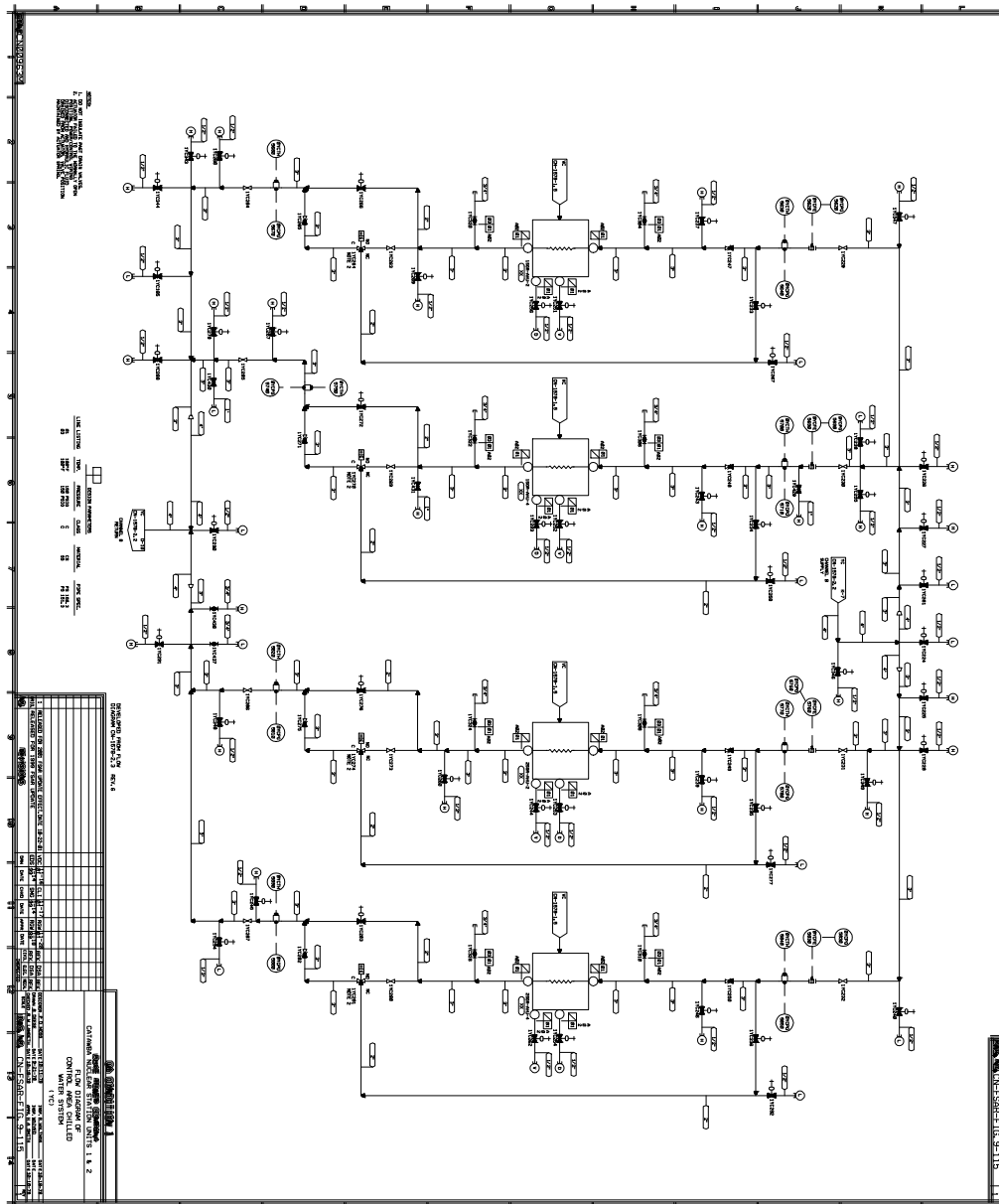


Figure 9-115. Flow Diagram of Control Area Chilled Water System





**Figure 9-116. Flow Diagram of Control Area Chilled Water System**

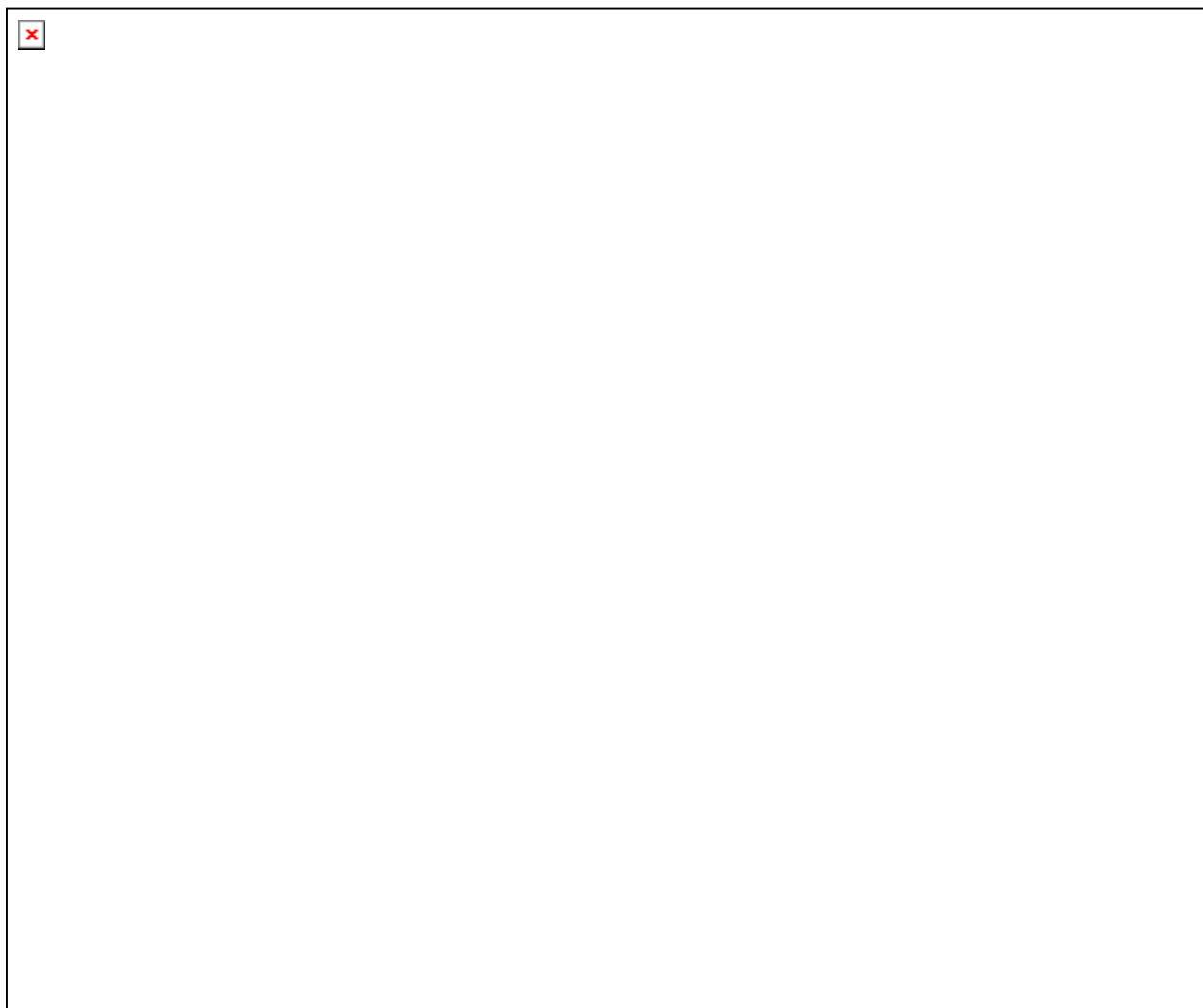
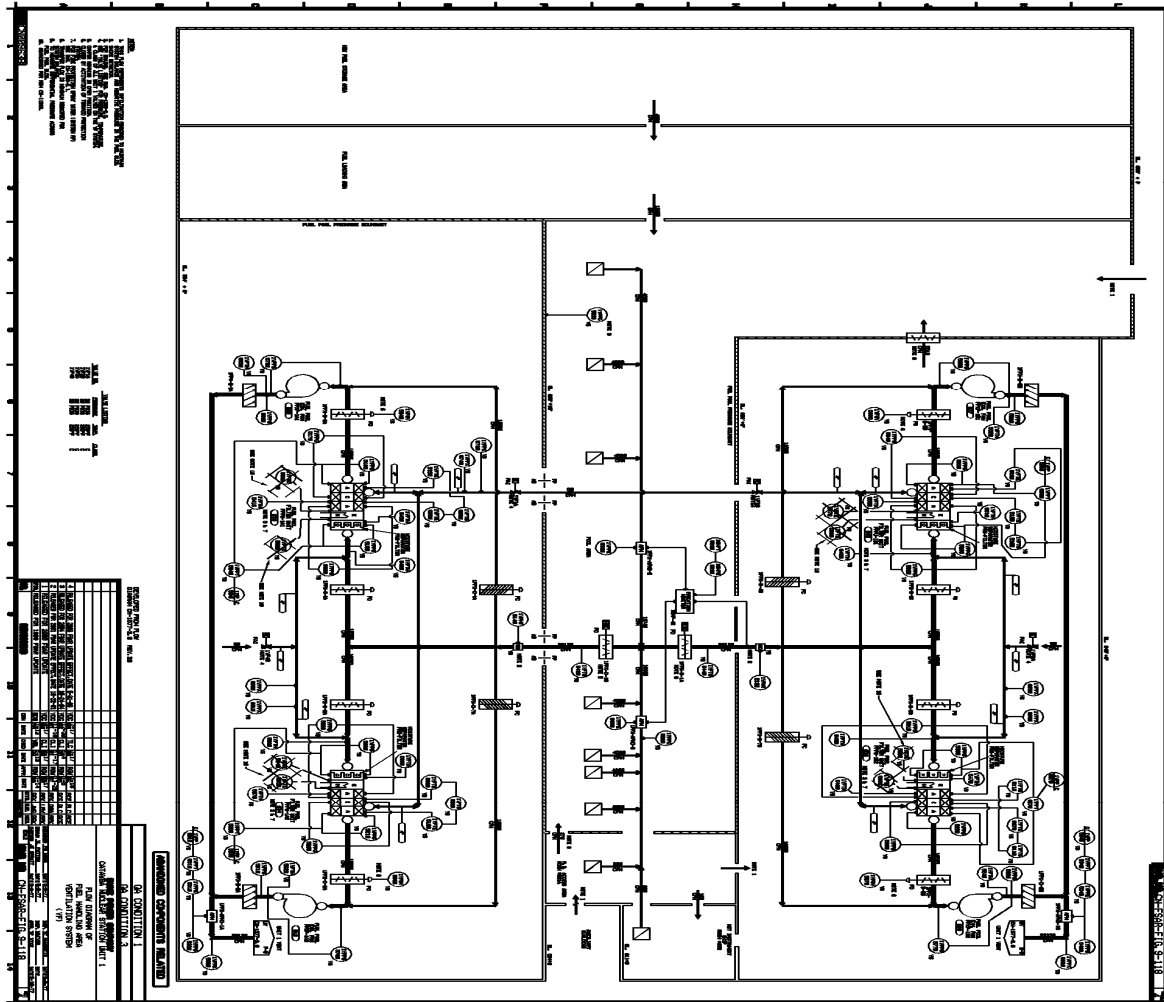


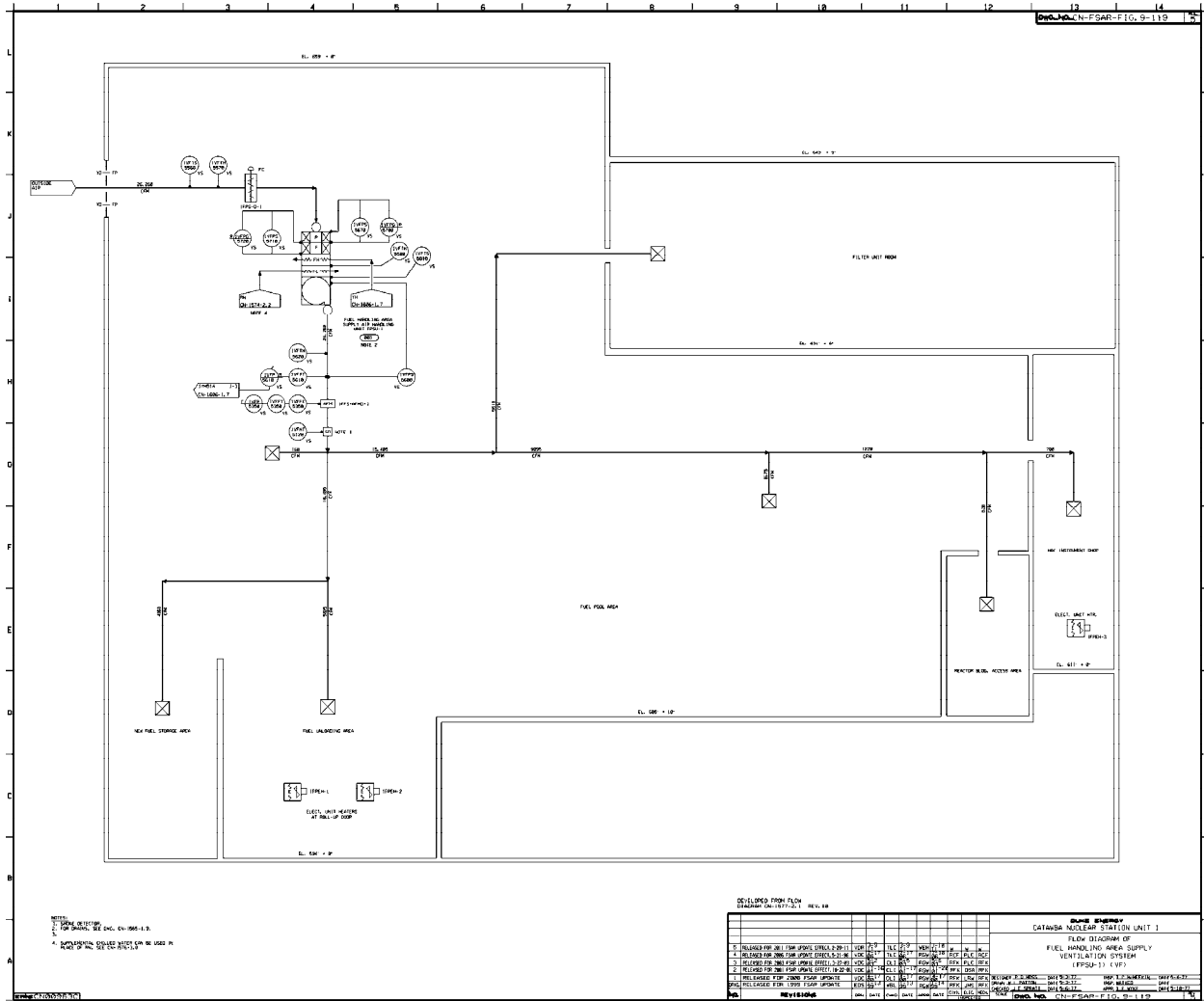


Figure 9-118. Flow Diagram of Fuel Handling Ventilation System



(24 APR 2006)

Figure 9-119. Flow Diagram of Fuel Handling Ventilation System



**LEGEND**

LINE LISTING	LINE NO.	LINE NAME	LINE TYPE	LINE STATUS	LINE MATERIAL
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
11	11	11	11	11	11
12	12	12	12	12	12
13	13	13	13	13	13
14	14	14	14	14	14
15	15	15	15	15	15
16	16	16	16	16	16
17	17	17	17	17	17
18	18	18	18	18	18
19	19	19	19	19	19
20	20	20	20	20	20
21	21	21	21	21	21
22	22	22	22	22	22
23	23	23	23	23	23
24	24	24	24	24	24
25	25	25	25	25	25
26	26	26	26	26	26
27	27	27	27	27	27
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29	29	29	29	29	29
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31	31	31	31	31	31
32	32	32	32	32	32
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34	34	34	34	34	34
35	35	35	35	35	35
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55	55	55	55	55	55
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57	57	57	57	57	57
58	58	58	58	58	58
59	59	59	59	59	59
60	60	60	60	60	60
61	61	61	61	61	61
62	62				

Figure 9-121. Flow Diagram of Auxiliary Building Ventilation System

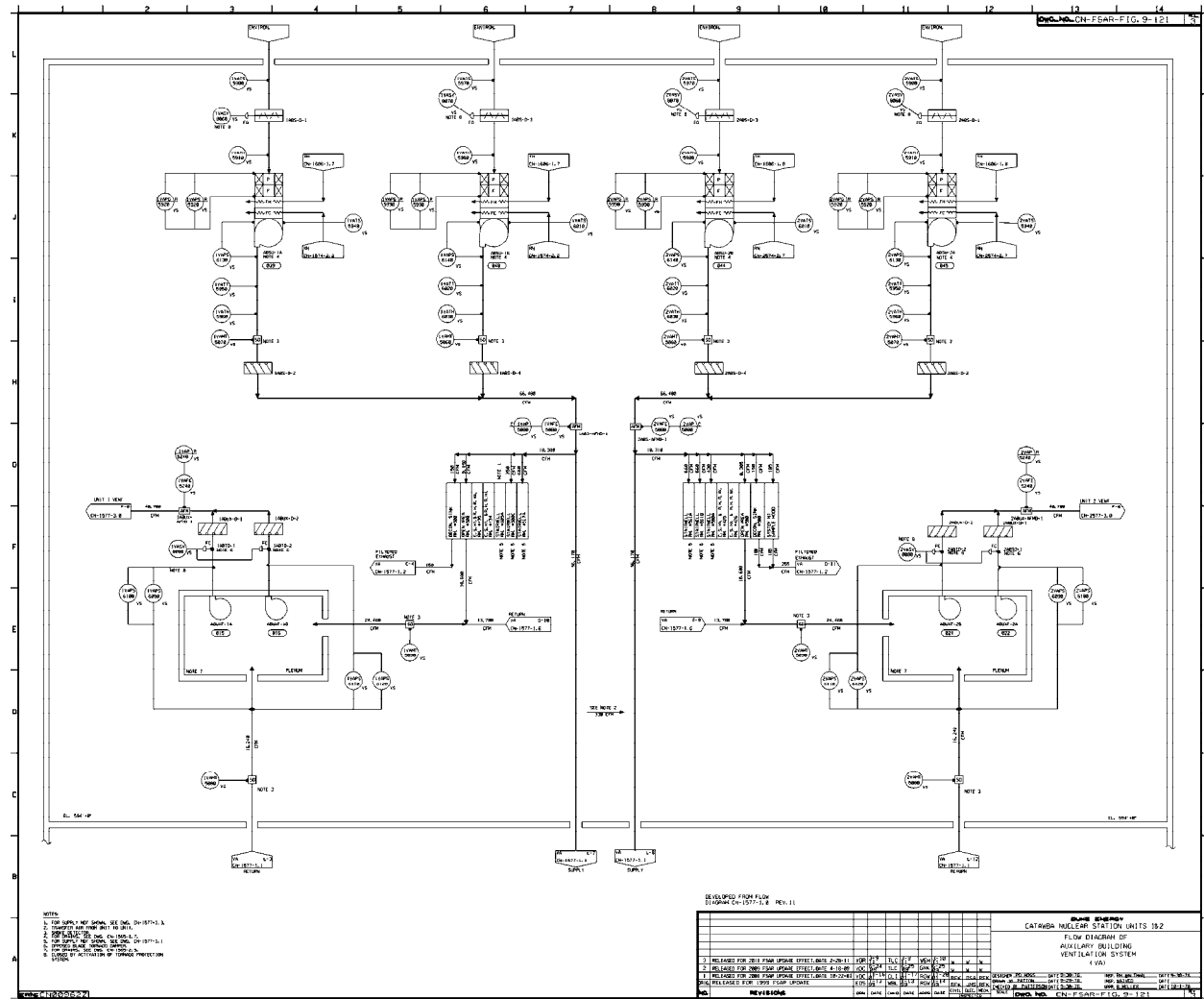


Figure 9-122. Flow Diagram of Auxiliary Building Ventilation System

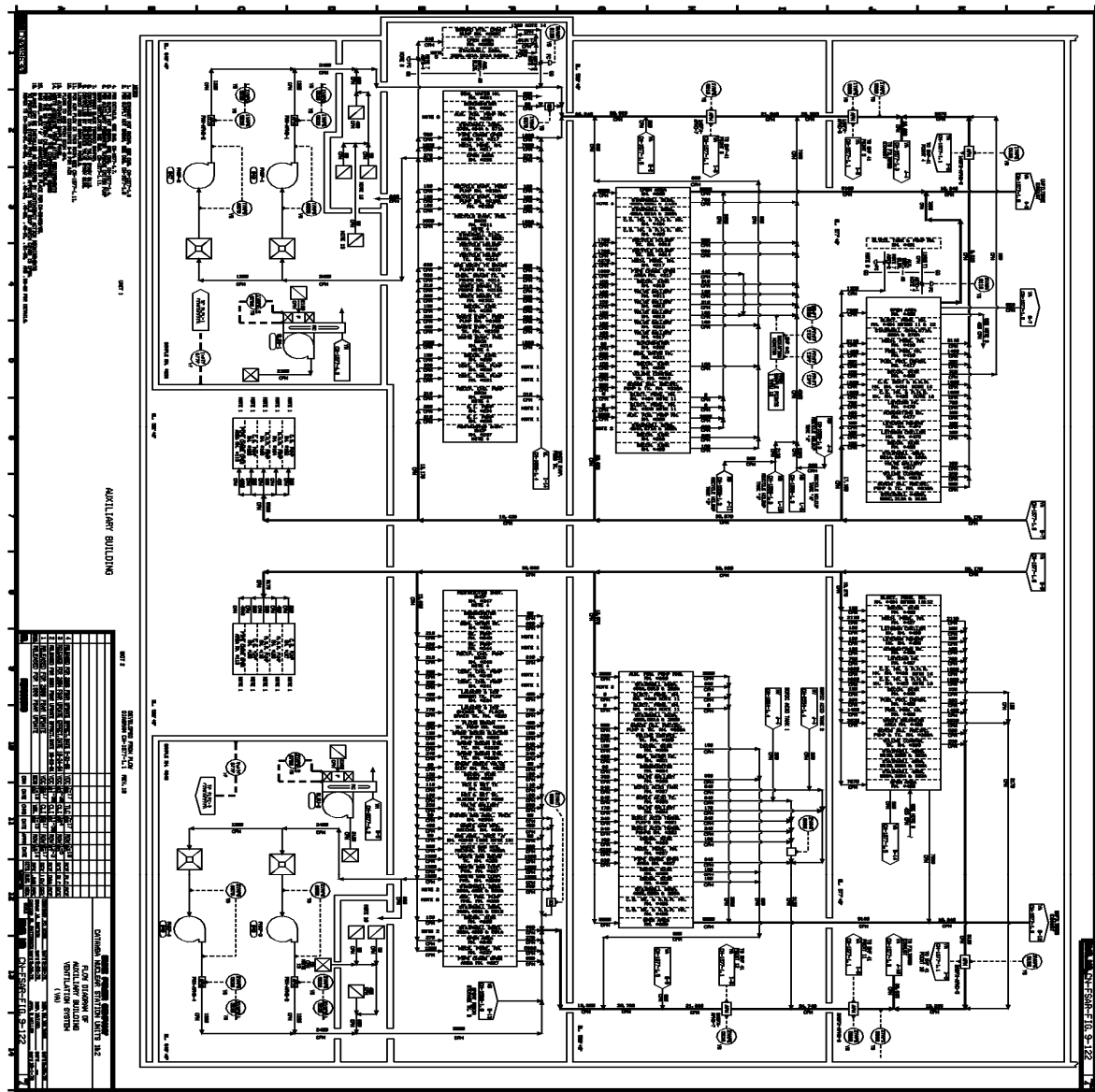
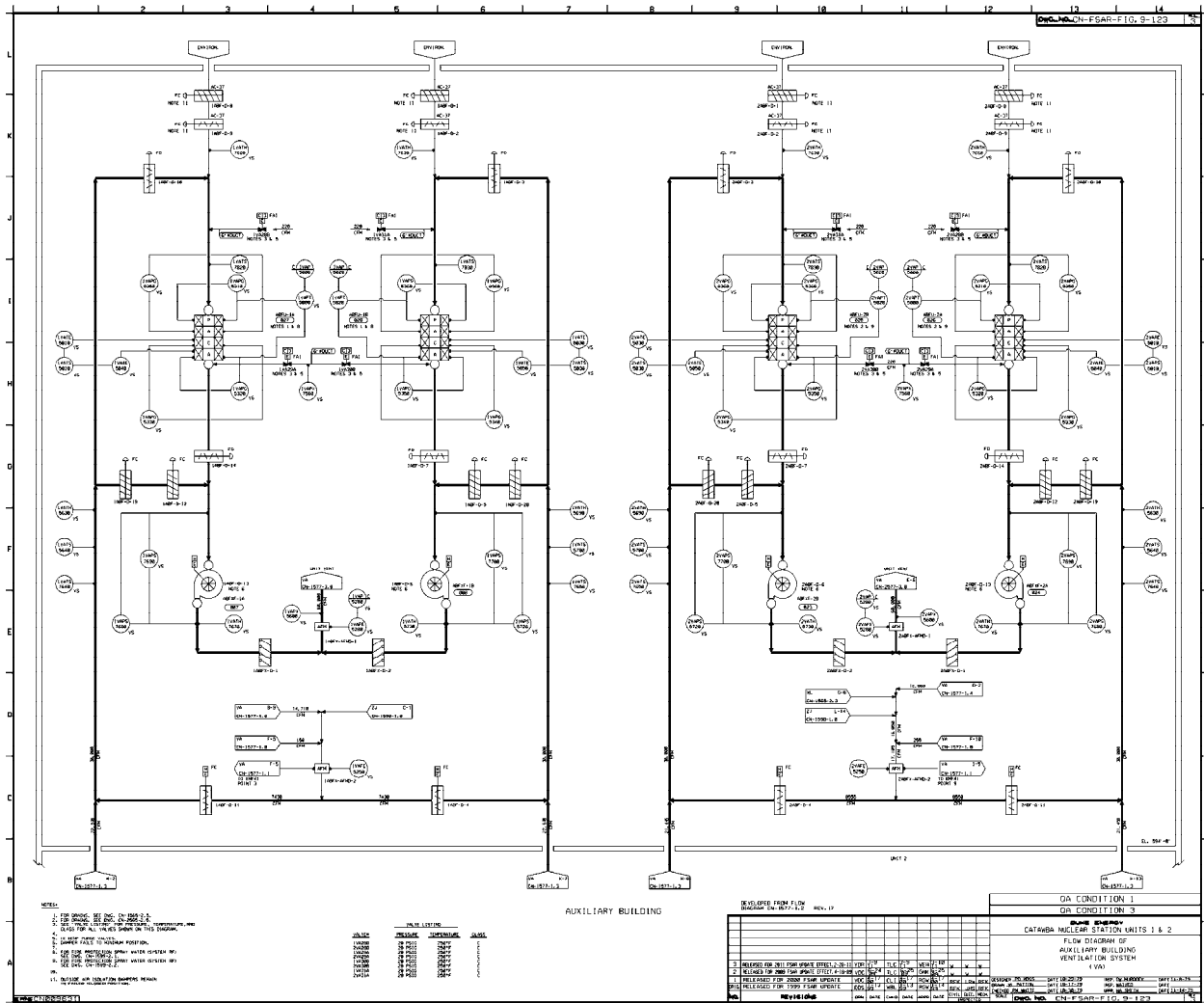


Figure 9-123. Flow Diagram of Auxiliary Building Ventilation System





**ASBUILT BUILDING**

**ABANDONED COMPONENTS RELATED**

COMPONENT	STATUS	LOCATION
FAN 1	ON CONDITION	MECH. ROOM 1
FAN 2	ON CONDITION	MECH. ROOM 2
FAN 3	ON CONDITION	MECH. ROOM 3
FAN 4	ON CONDITION	MECH. ROOM 4
FAN 5	ON CONDITION	MECH. ROOM 5
FAN 6	ON CONDITION	MECH. ROOM 6
FAN 7	ON CONDITION	MECH. ROOM 7
FAN 8	ON CONDITION	MECH. ROOM 8
FAN 9	ON CONDITION	MECH. ROOM 9
FAN 10	ON CONDITION	MECH. ROOM 10
FAN 11	ON CONDITION	MECH. ROOM 11
FAN 12	ON CONDITION	MECH. ROOM 12
FAN 13	ON CONDITION	MECH. ROOM 13
FAN 14	ON CONDITION	MECH. ROOM 14
FAN 15	ON CONDITION	MECH. ROOM 15
FAN 16	ON CONDITION	MECH. ROOM 16
FAN 17	ON CONDITION	MECH. ROOM 17
FAN 18	ON CONDITION	MECH. ROOM 18
FAN 19	ON CONDITION	MECH. ROOM 19
FAN 20	ON CONDITION	MECH. ROOM 20
FAN 21	ON CONDITION	MECH. ROOM 21
FAN 22	ON CONDITION	MECH. ROOM 22
FAN 23	ON CONDITION	MECH. ROOM 23
FAN 24	ON CONDITION	MECH. ROOM 24
FAN 25	ON CONDITION	MECH. ROOM 25
FAN 26	ON CONDITION	MECH. ROOM 26
FAN 27	ON CONDITION	MECH. ROOM 27
FAN 28	ON CONDITION	MECH. ROOM 28
FAN 29	ON CONDITION	MECH. ROOM 29
FAN 30	ON CONDITION	MECH. ROOM 30
FAN 31	ON CONDITION	MECH. ROOM 31
FAN 32	ON CONDITION	MECH. ROOM 32
FAN 33	ON CONDITION	MECH. ROOM 33
FAN 34	ON CONDITION	MECH. ROOM 34
FAN 35	ON CONDITION	MECH. ROOM 35
FAN 36	ON CONDITION	MECH. ROOM 36
FAN 37	ON CONDITION	MECH. ROOM 37
FAN 38	ON CONDITION	MECH. ROOM 38
FAN 39	ON CONDITION	MECH. ROOM 39
FAN 40	ON CONDITION	MECH. ROOM 40
FAN 41	ON CONDITION	MECH. ROOM 41
FAN 42	ON CONDITION	MECH. ROOM 42
FAN 43	ON CONDITION	MECH. ROOM 43
FAN 44	ON CONDITION	MECH. ROOM 44
FAN 45	ON CONDITION	MECH. ROOM 45
FAN 46	ON CONDITION	MECH. ROOM 46
FAN 47	ON CONDITION	MECH. ROOM 47
FAN 48	ON CONDITION	MECH. ROOM 48
FAN 49	ON CONDITION	MECH. ROOM 49
FAN 50	ON CONDITION	MECH. ROOM 50
FAN 51	ON CONDITION	MECH. ROOM 51
FAN 52	ON CONDITION	MECH. ROOM 52
FAN 53	ON CONDITION	MECH. ROOM 53
FAN 54	ON CONDITION	MECH. ROOM 54
FAN 55	ON CONDITION	MECH. ROOM 55
FAN 56	ON CONDITION	MECH. ROOM 56
FAN 57	ON CONDITION	MECH. ROOM 57
FAN 58	ON CONDITION	MECH. ROOM 58
FAN 59	ON CONDITION	MECH. ROOM 59
FAN 60	ON CONDITION	MECH. ROOM 60
FAN 61	ON CONDITION	MECH. ROOM 61
FAN 62	ON CONDITION	MECH. ROOM 62
FAN 63	ON CONDITION	MECH. ROOM 63
FAN 64	ON CONDITION	MECH. ROOM 64
FAN 65	ON CONDITION	MECH. ROOM 65
FAN 66	ON CONDITION	MECH. ROOM 66
FAN 67	ON CONDITION	MECH. ROOM 67
FAN 68	ON CONDITION	MECH. ROOM 68
FAN 69	ON CONDITION	MECH. ROOM 69
FAN 70	ON CONDITION	MECH. ROOM 70
FAN 71	ON CONDITION	MECH. ROOM 71
FAN 72	ON CONDITION	MECH. ROOM 72
FAN 73	ON CONDITION	MECH. ROOM 73
FAN 74	ON CONDITION	MECH. ROOM 74
FAN 75	ON CONDITION	MECH. ROOM 75
FAN 76	ON CONDITION	MECH. ROOM 76
FAN 77	ON CONDITION	MECH. ROOM 77
FAN 78	ON CONDITION	MECH. ROOM 78
FAN 79	ON CONDITION	MECH. ROOM 79
FAN 80	ON CONDITION	MECH. ROOM 80
FAN 81	ON CONDITION	MECH. ROOM 81
FAN 82	ON CONDITION	MECH. ROOM 82
FAN 83	ON CONDITION	MECH. ROOM 83
FAN 84	ON CONDITION	MECH. ROOM 84
FAN 85	ON CONDITION	MECH. ROOM 85
FAN 86	ON CONDITION	MECH. ROOM 86
FAN 87	ON CONDITION	MECH. ROOM 87
FAN 88	ON CONDITION	MECH. ROOM 88
FAN 89	ON CONDITION	MECH. ROOM 89
FAN 90	ON CONDITION	MECH. ROOM 90
FAN 91	ON CONDITION	MECH. ROOM 91
FAN 92	ON CONDITION	MECH. ROOM 92
FAN 93	ON CONDITION	MECH. ROOM 93
FAN 94	ON CONDITION	MECH. ROOM 94
FAN 95	ON CONDITION	MECH. ROOM 95
FAN 96	ON CONDITION	MECH. ROOM 96
FAN 97	ON CONDITION	MECH. ROOM 97
FAN 98	ON CONDITION	MECH. ROOM 98
FAN 99	ON CONDITION	MECH. ROOM 99
FAN 100	ON CONDITION	MECH. ROOM 100

**(18 APR 2009)**



Figure 9-126. Auxiliary Shutdown Panel Air Conditioning System

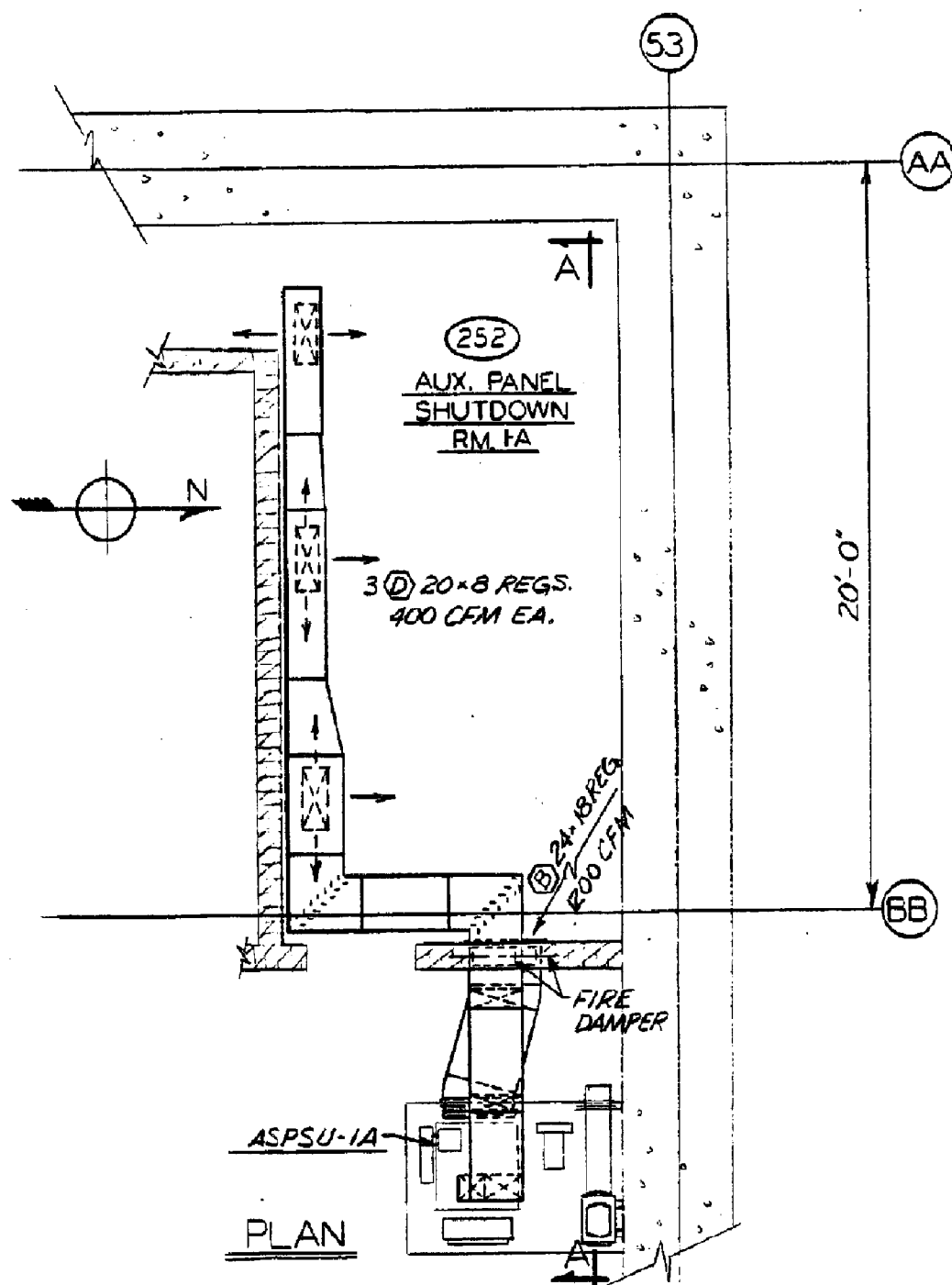
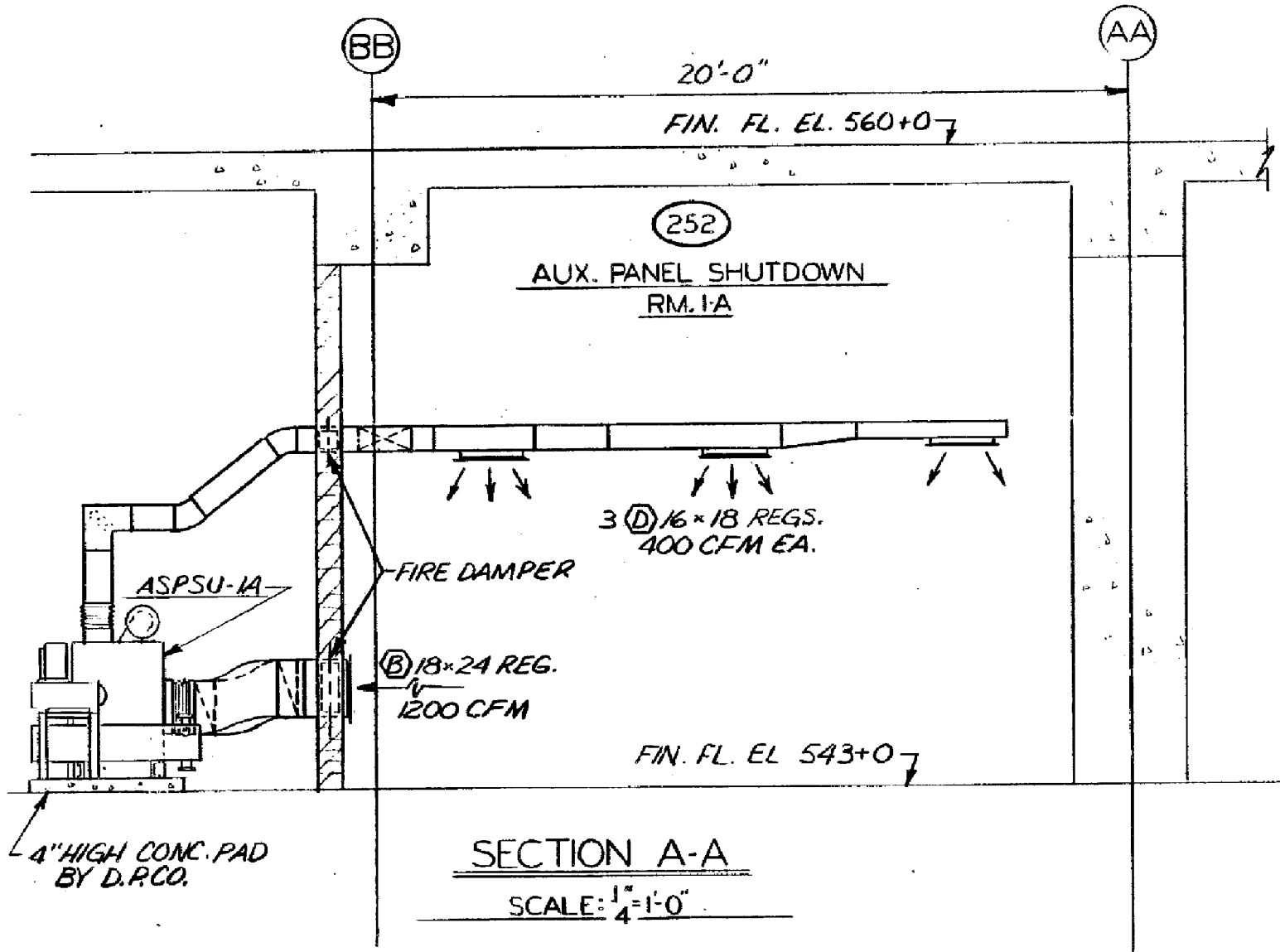


Figure 9-127. Auxiliary Shutdown Panel Air Conditioning System



[illegible]

[illegible]

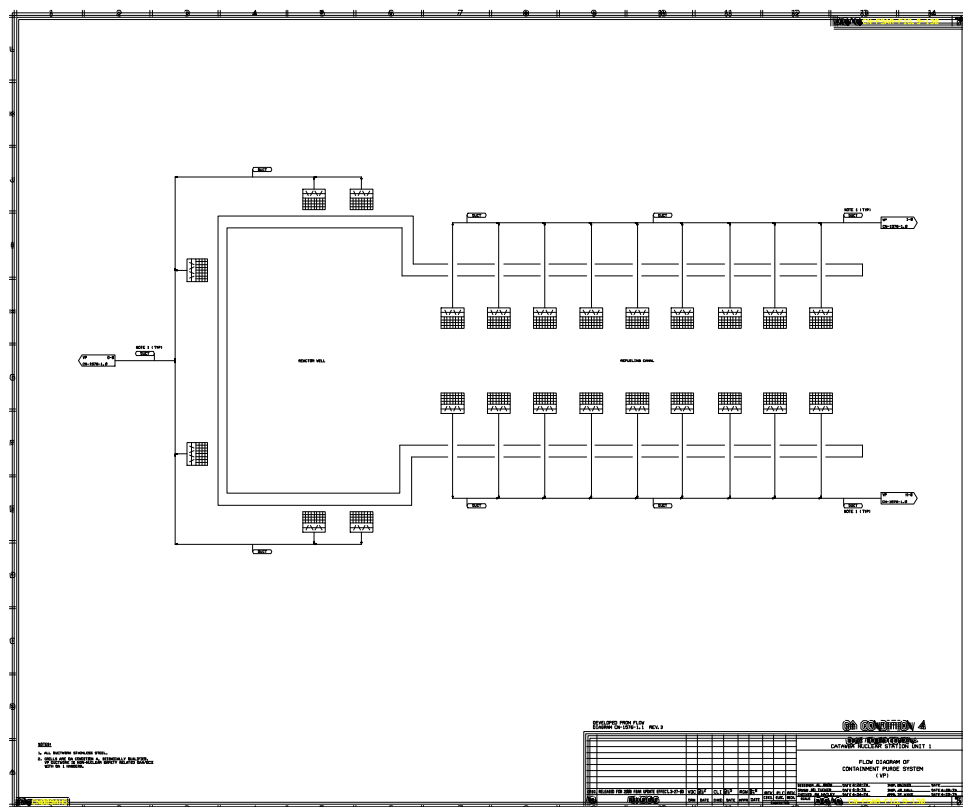
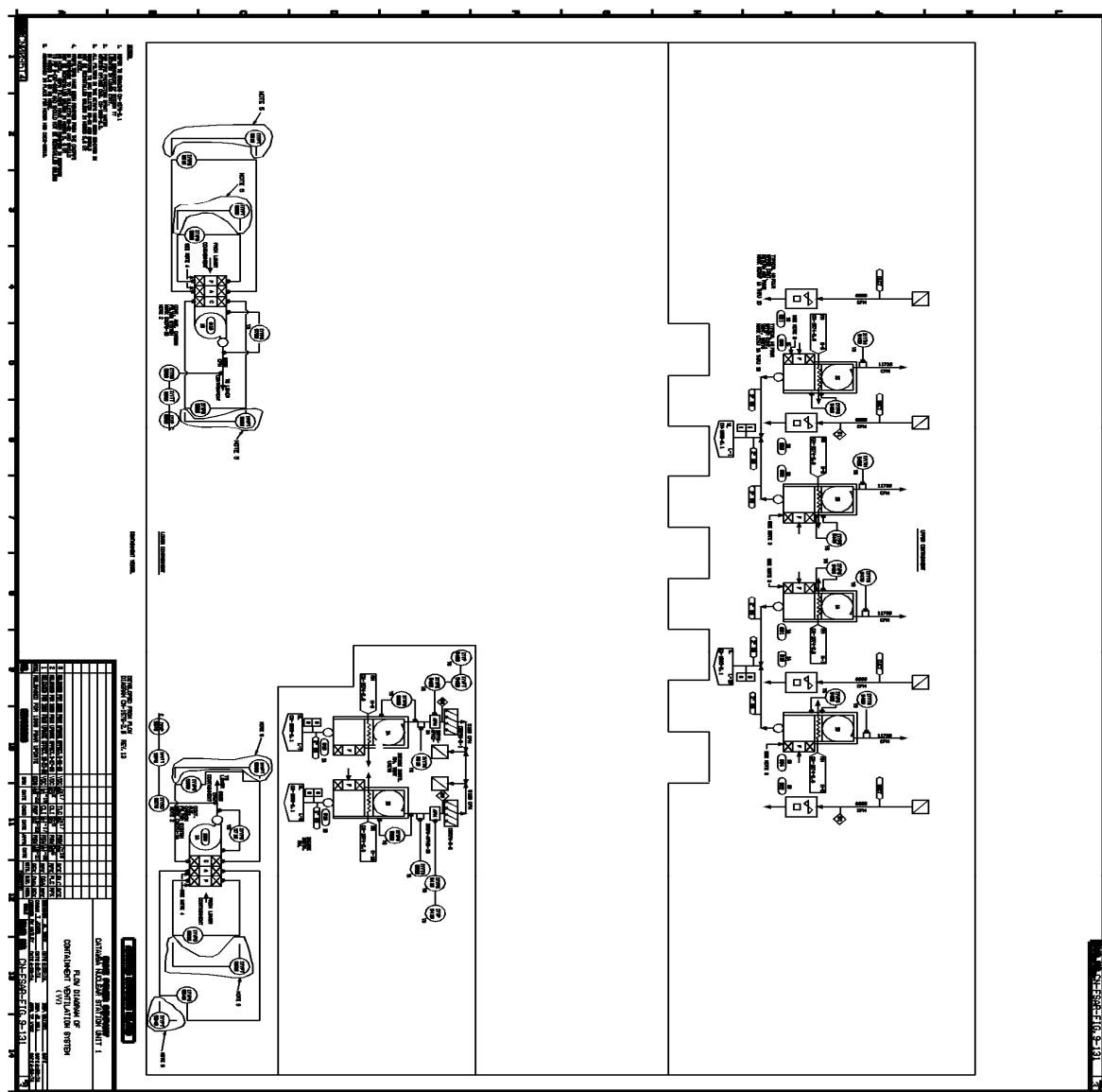


Figure 9-131. Flow Diagram of Containment Ventilation System



(24 APR 2006)



UFSAR Figure 9-132 (Page 1 of 1)



**Figure 9-133. Deleted Per 2001 Update**

(22 OCT 2001)

**OPERATION 1**

**LEGEND**

Symbol	Description
[Circle with dot]	Reactor Core
[Circle with 'P']	Pump
[Circle with 'V']	Valve
[Circle with 'C']	Control Rod
[Circle with 'S']	Steam Generator
[Circle with 'T']	Temperature Sensor
[Circle with 'P']	Pressure Sensor
[Circle with 'F']	Flow Sensor
[Circle with 'A']	Accelerometer
[Circle with 'M']	Magnetometer
[Circle with 'G']	Gyrometer
[Circle with 'H']	Humidity Sensor
[Circle with 'O']	Oxygen Sensor
[Circle with 'C']	Carbon Dioxide Sensor
[Circle with 'N']	Nitrogen Sensor
[Circle with 'H']	Hydrogen Sensor
[Circle with 'O']	Oxygen Sensor
[Circle with 'C']	Carbon Dioxide Sensor
[Circle with 'N']	Nitrogen Sensor
[Circle with 'H']	Hydrogen Sensor

**COMPONENT SPECIFICATIONS**

Component	Model	Manufacturer	Serial Number	Installation Date
Reactor Core	RC-100	General Atomics	12345	2023-01-15
Pump A	P-100	Westinghouse	67890	2023-02-01
Pump B	P-100	Westinghouse	11111	2023-02-01
Valve A	V-100	Flowserve	22222	2023-02-15
Valve B	V-100	Flowserve	33333	2023-02-15
Control Rod	CR-100	General Atomics	44444	2023-03-01
Steam Generator	SG-100	General Atomics	55555	2023-03-15
Temperature Sensor	TS-100	Omega	66666	2023-04-01
Pressure Sensor	PS-100	Omega	77777	2023-04-01
Flow Sensor	FS-100	Omega	88888	2023-04-15
Accelerometer	AC-100	Omega	99999	2023-05-01
Magnetometer	MA-100	Omega	00000	2023-05-01
Gyrometer	GY-100	Omega	11111	2023-05-15
Humidity Sensor	HA-100	Omega	22222	2023-06-01
Oxygen Sensor	OA-100	Omega	33333	2023-06-01
Carbon Dioxide Sensor	CA-100	Omega	44444	2023-06-15
Nitrogen Sensor	NA-100	Omega	55555	2023-06-15
Hydrogen Sensor	HA-100	Omega	66666	2023-06-30

Figure 9-135. Flow Diagram of Annulus Ventilation System

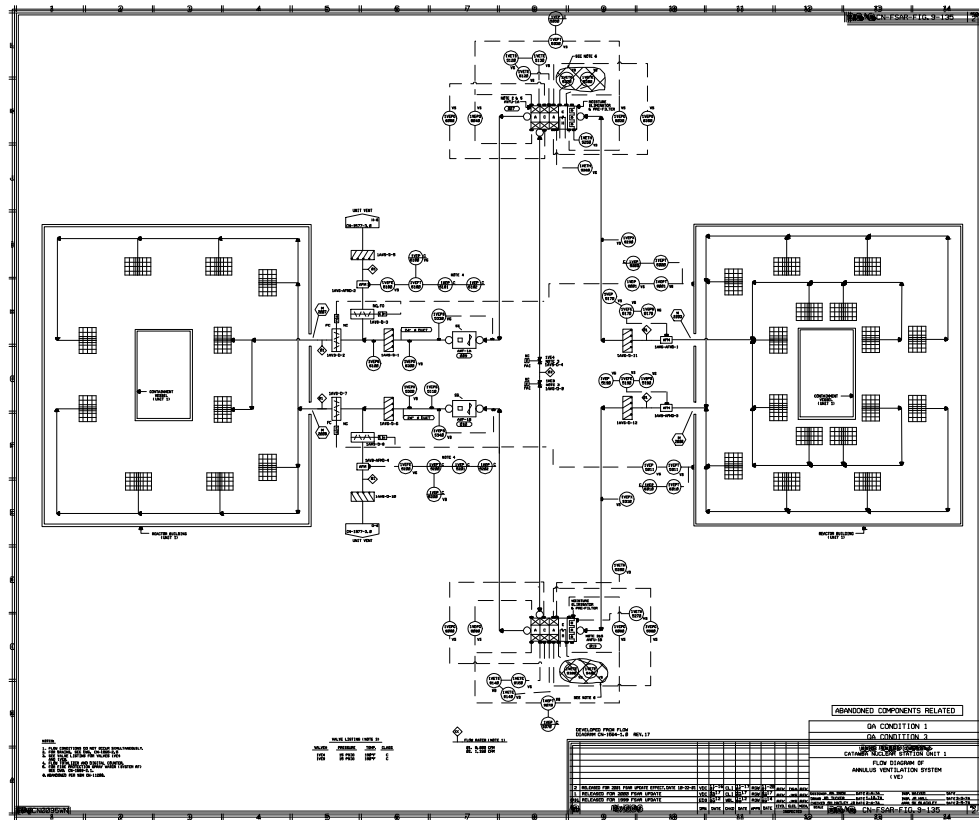


Figure 9-136. Deleted Per 2018 Update

(14 APR 2018)

Figure 9-137. Deleted Per 2018 Update

(14 APR 2018)

Figure 9-138. Deleted Per 2018 Update

(14 APR 2018)

Figure 9-139. Deleted Per 2018 Update

(14 APR 2018)



Figure 9-140. Deleted Per 2018 Update

(14 APR 2018)

Figure 9-141. Deleted Per 2018 Update

(14 APR 2018)

Figure 9-142. Deleted Per 2018 Update

(14 APR 2018)

Figure 9-143. Deleted Per 2018 Update

(14 APR 2018)

Figure 9-144. Deleted Per 2018 Update

(14 APR 2018)

**Figure 9-145. Deleted Per 1990 Update**

**Figure 9-146. Deleted Per 1990 Update**

**Figure 9-147. Deleted Per 1990 Update**

**Figure 9-148. Deleted Per 1990 Update**

**Figure 9-149. Deleted Per 1990 Update**

**Figure 9-150. Deleted Per 1990 Update**

**Figure 9-151. Deleted Per 1990 Update**

**Figure 9-152. Deleted Per 1990 Update**

**Figure 9-153. Deleted Per 1990 Update**

**Figure 9-154. Deleted Per 1990 Update**

**Figure 9-155. Deleted Per 1990 Update**

**Figure 9-156. Deleted Per 1990 Update**

**Figure 9-157. Deleted Per 1990 Update**

**Figure 9-158. Deleted Per 1990 Update**

**Figure 9-159. Deleted Per 1990 Update**

**Figure 9-160. Deleted Per 1990 Update**

**Figure 9-161. Deleted Per 1990 Update**

**Figure 9-162. Deleted Per 1990 Update**

**Figure 9-163. Deleted Per 1990 Update**

**Figure 9-164. Deleted Per 1990 Update**

**Figure 9-165. Deleted Per 1990 Update**

**Figure 9-166. Deleted Per 1990 Update**

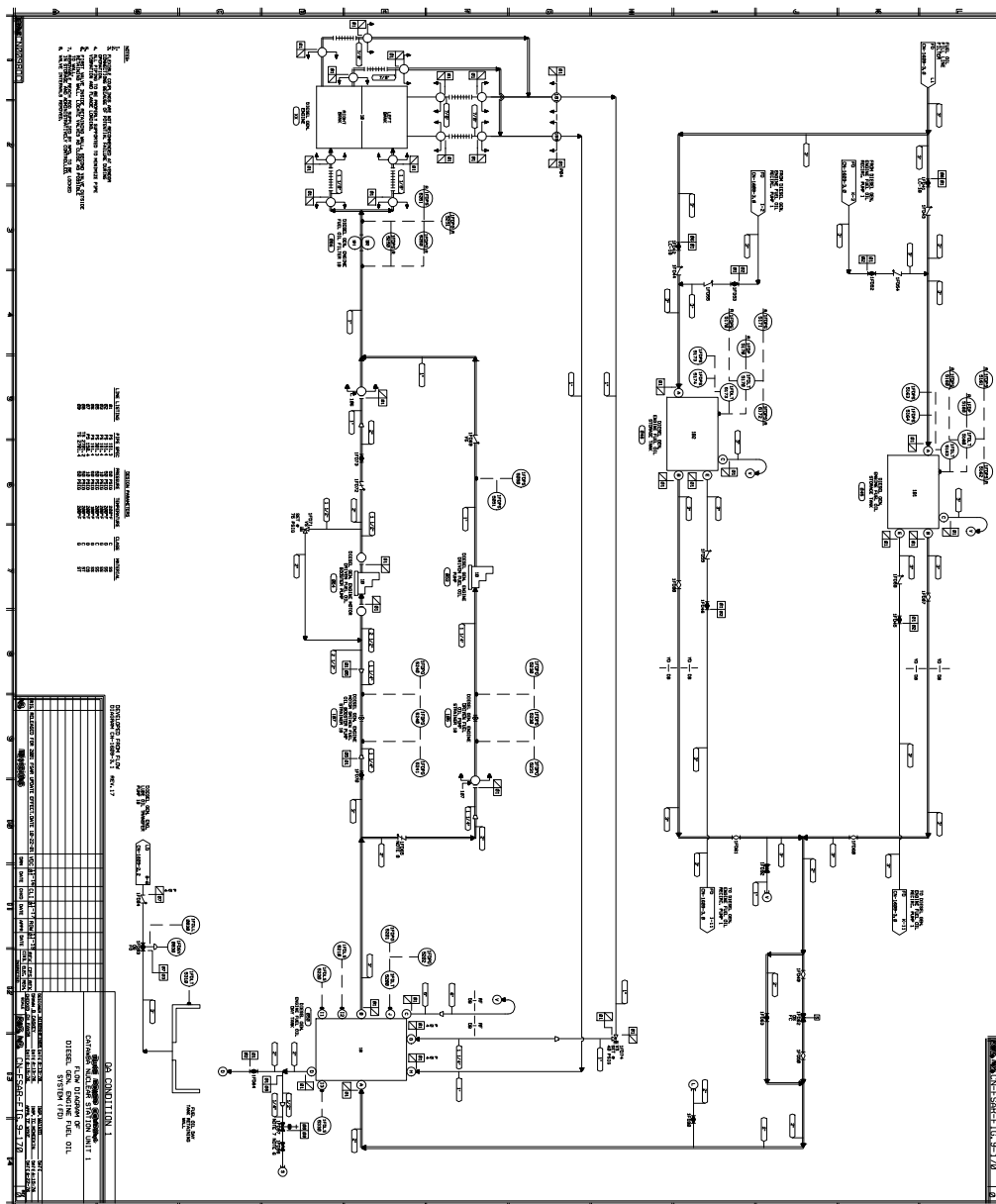
**Figure 9-167. Deleted Per 1990 Update**

**Figure 9-168. Deleted Per 1990 Update**






Figure 9-170. Flow Diagram of Diesel Generator Engine Fuel Oil System



**Figure 9-171. Diesel Generator Building Plan @ Elevation 556+0**

Security-Related, Withhold under 10 CFR 2.390




(22 OCT 2001)

**Figure 9-172. Diesel Generator Building Plan @ Elevation 556+0**

Security-Related, Withhold under 10 CFR 2.390

**Figure 9-173. Diesel Generator Building Plan @ Elevation 556+0**

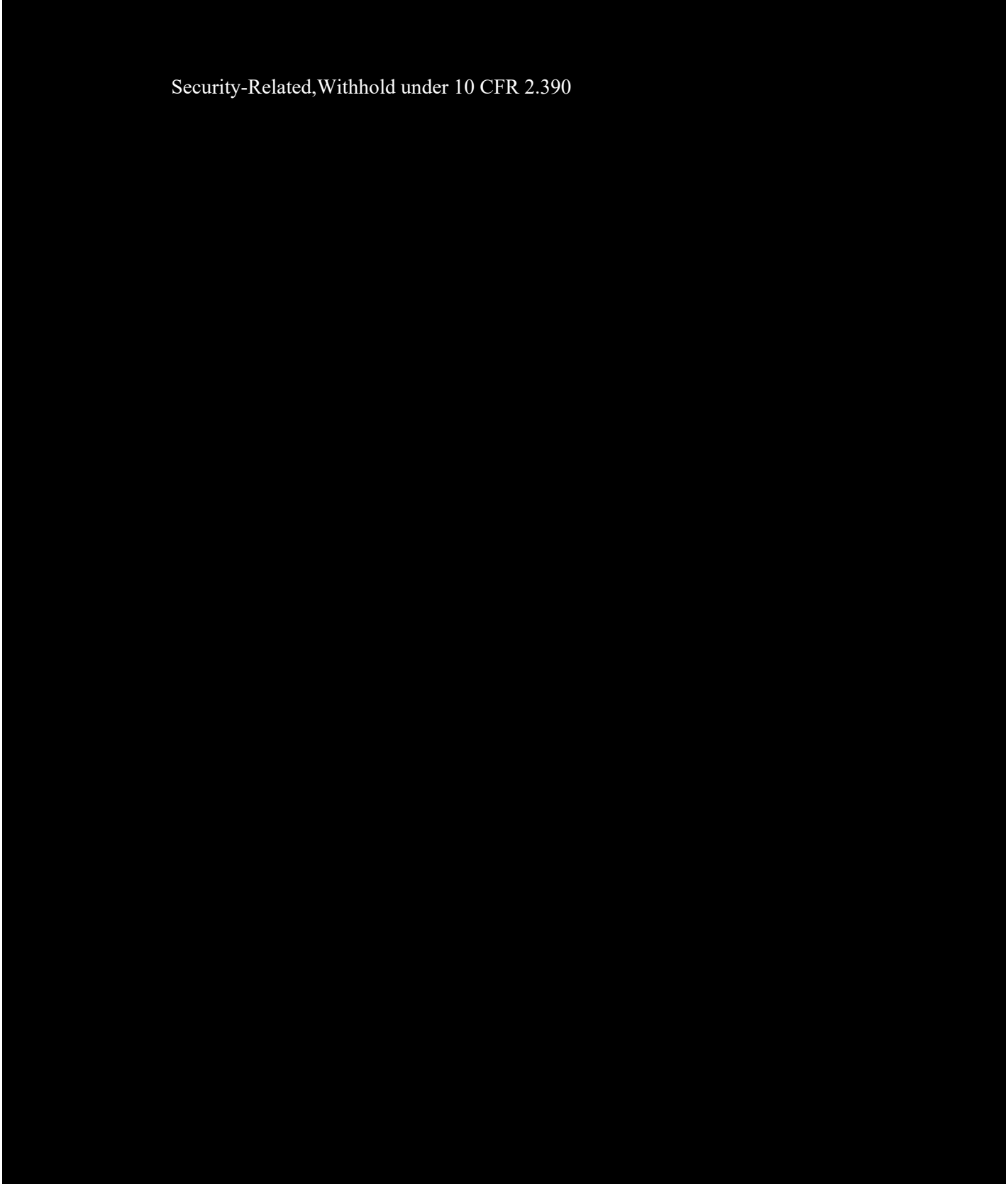
Security-Related, Withhold under 10 CFR 2.390



(22 OCT 2001)

**Figure 9-174. Diesel Generator Building Plan @ Elevation 556+0**

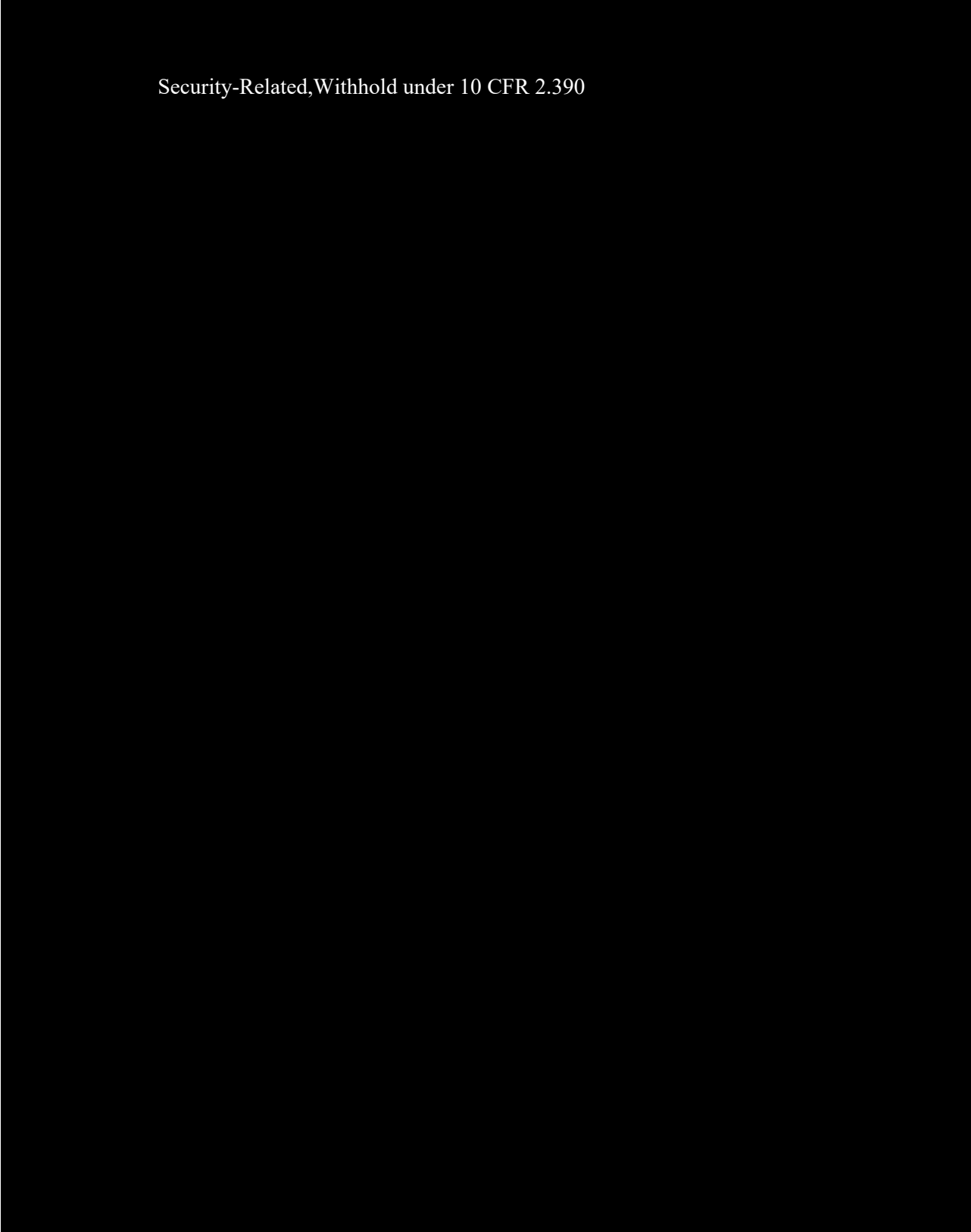
Security-Related, Withhold under 10 CFR 2.390



(22 OCT 2001)

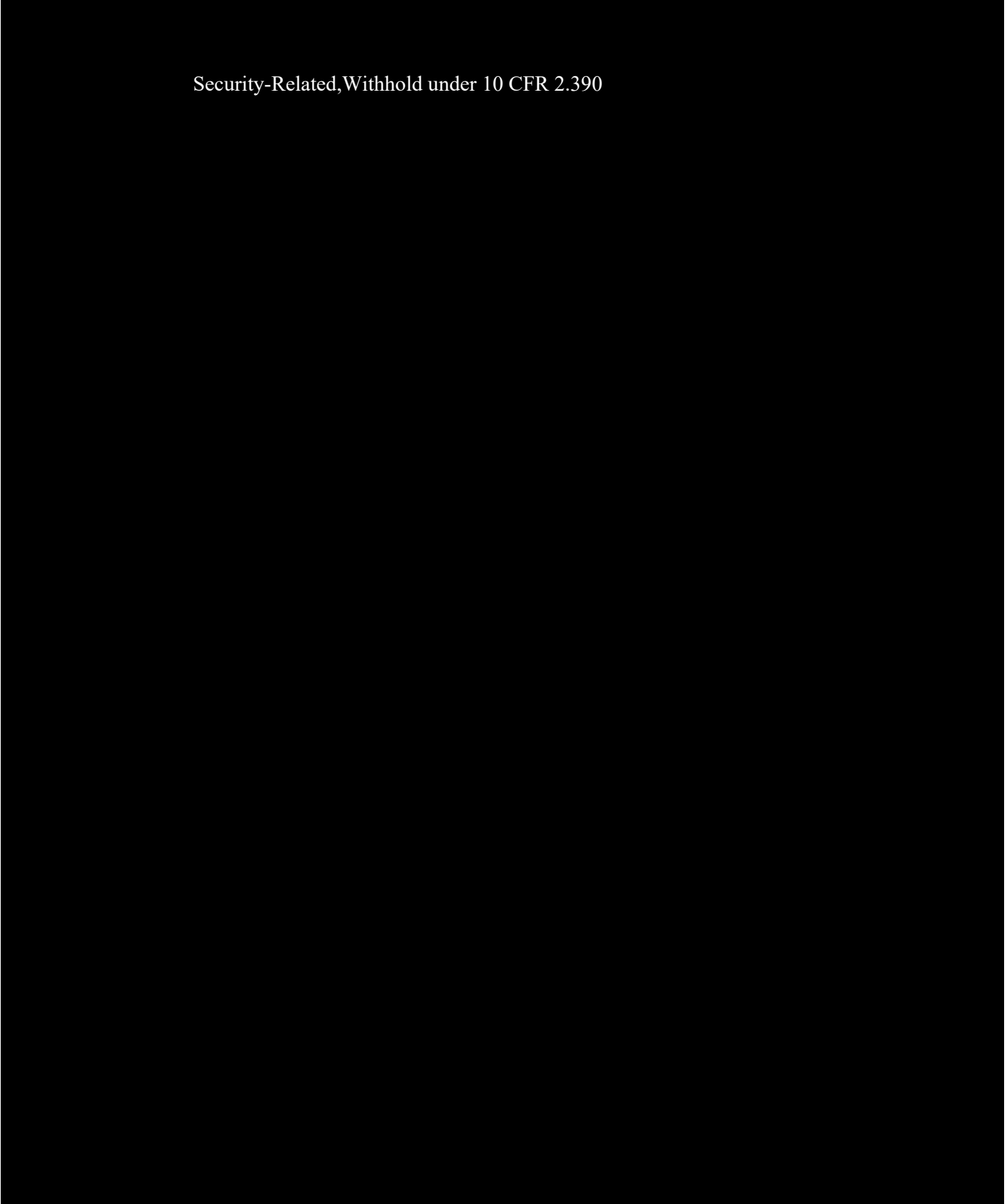
**Figure 9-175. Diesel Generator Building Plan @ Elevation 556+0**

Security-Related, Withhold under 10 CFR 2.390



**Figure 9-176. Diesel Generator Building Plan @ Elevation 556+0**

Security-Related, Withhold under 10 CFR 2.390



(22 OCT 2001)

**Figure 9-177. Diesel Generator Building Plan @ Elevation 556+0**

Security-Related, Withhold under 10 CFR 2.390



**Figure 9-178. Exterior Miscellaneous Piping**

Security-Related, Withhold under 10 CFR 2.390

Figure 9-179. Exterior Miscellaneous Piping

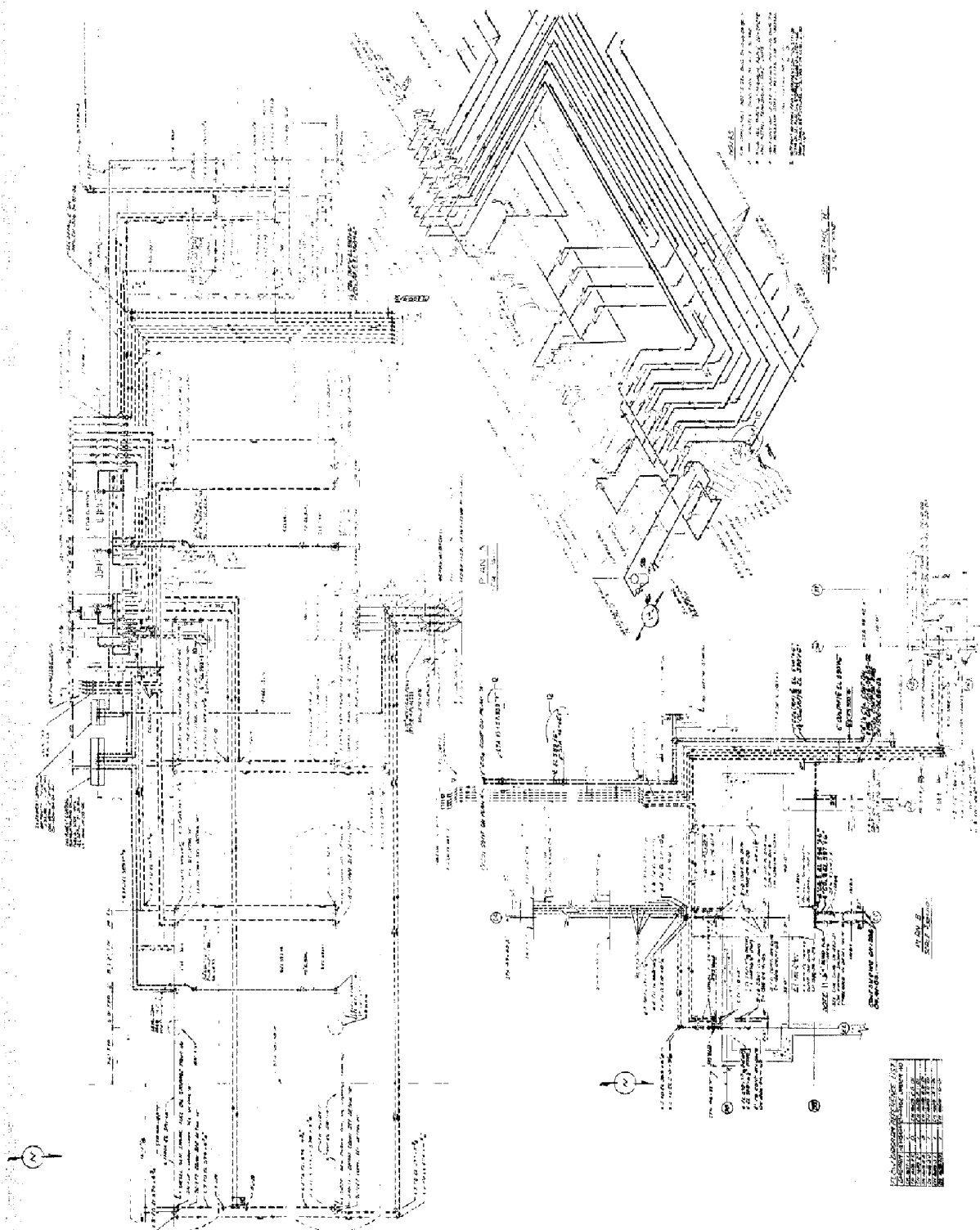


Figure 9-180. Exterior Miscellaneous Piping

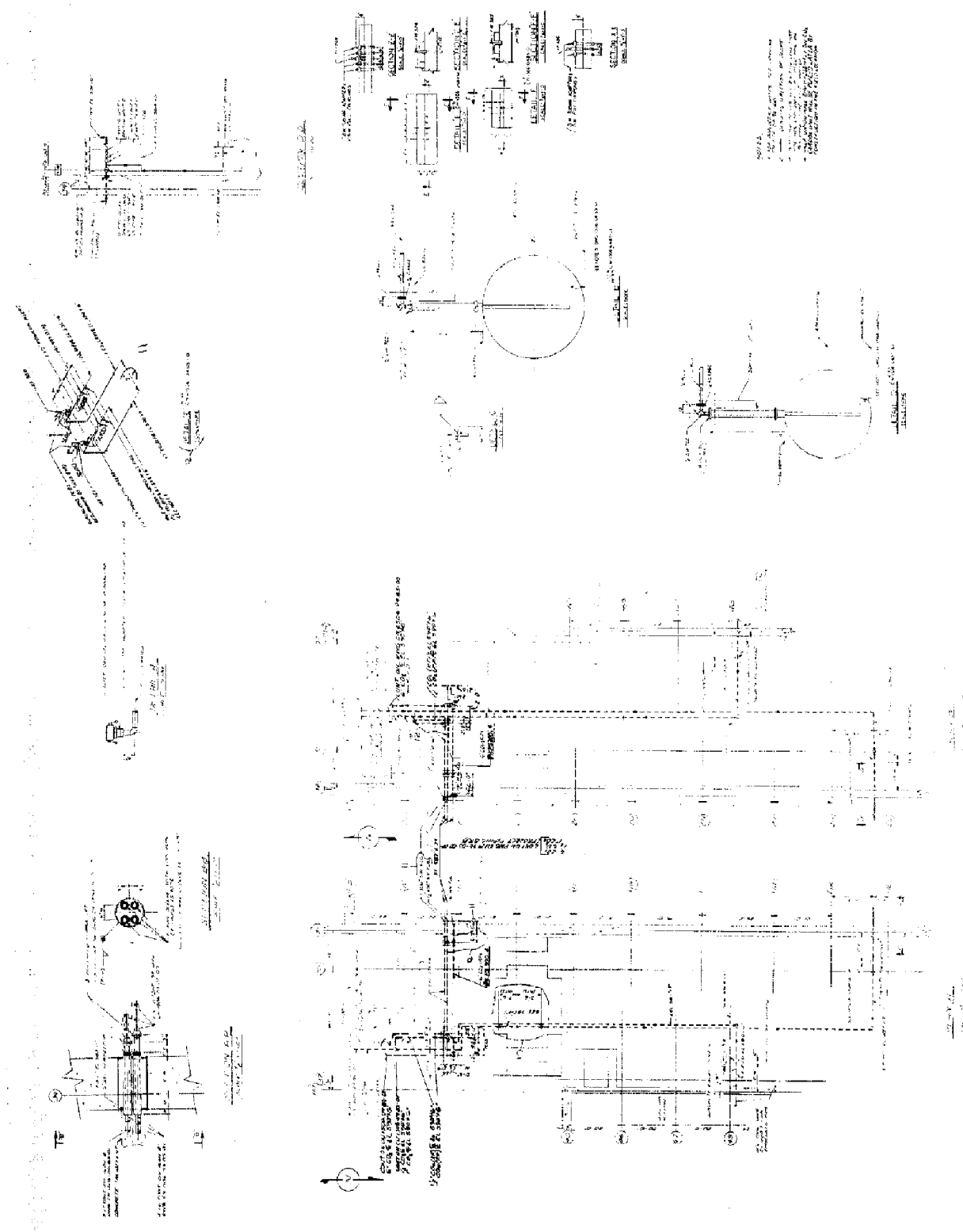
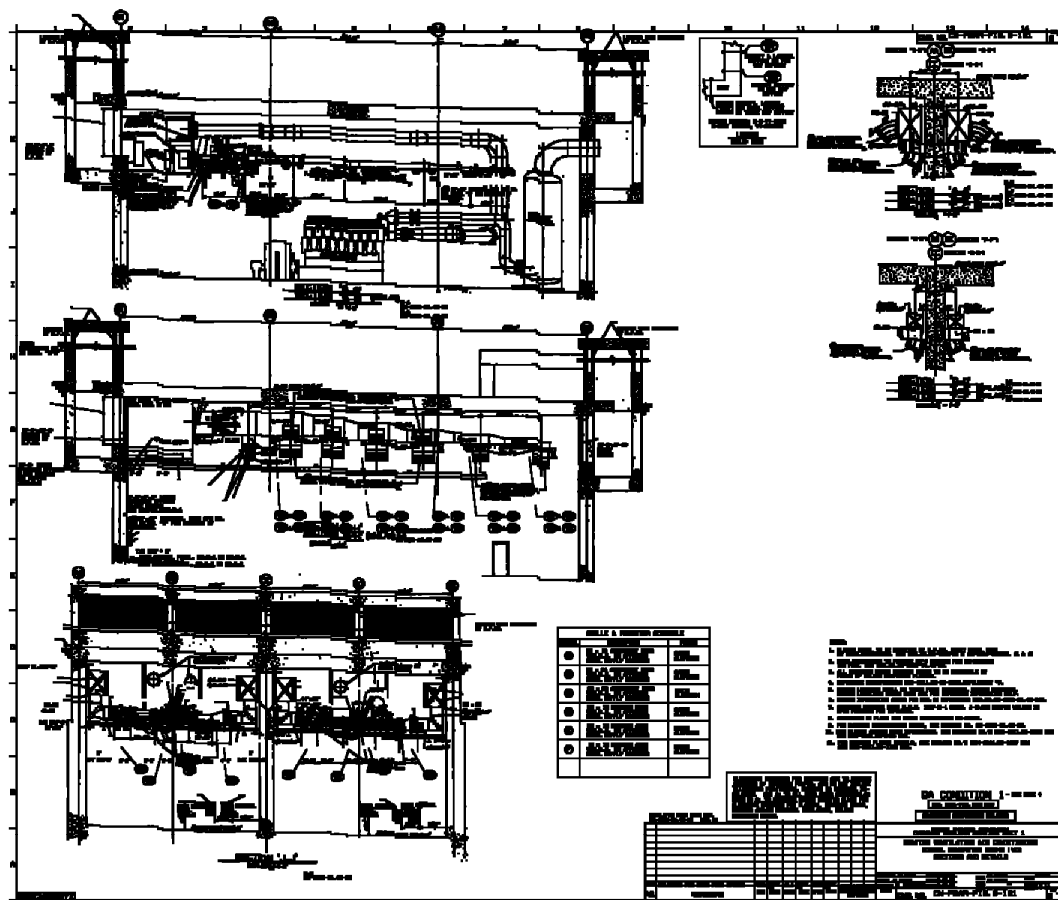


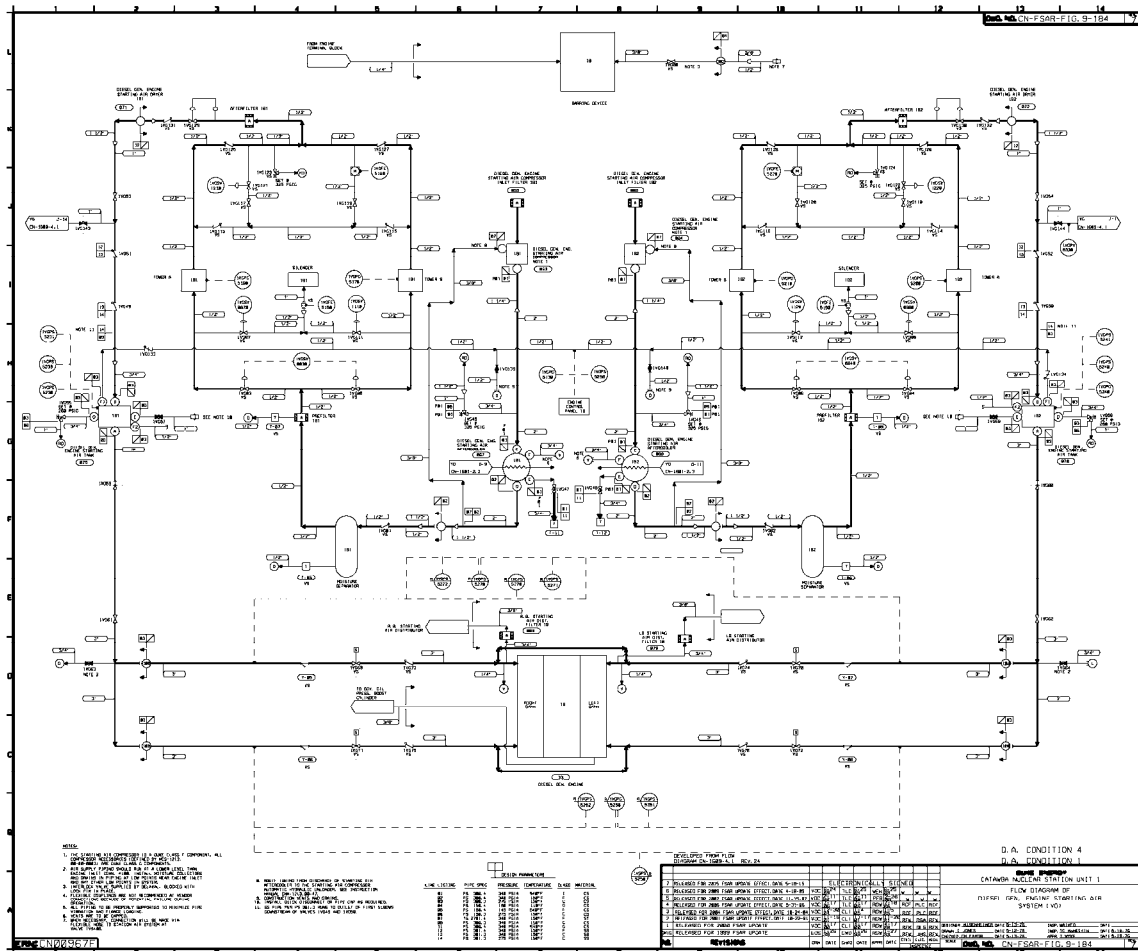
Figure 9-181. HVAC Diesel Generator Rooms



[illegible]

[illegible]

Figure 9-184. Flow Diagram of Diesel Generator Engine Starting Air System



[illegible]



**NOTES:**

1. THIS SYSTEM IS COMPOSED OF TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
2. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
3. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
4. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
5. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
6. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
7. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
8. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
9. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
10. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
11. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
12. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
13. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
14. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
15. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
16. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
17. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
18. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
19. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.
20. THE SYSTEM IS DESIGNED TO OPERATE IN A REDUNDANT MANNER, WITH TWO SEPARATE LUBRICATING OIL SYSTEMS, ONE FOR EACH UNIT, AND IS DESIGNED TO OPERATE IN A REDUNDANT MANNER.

**LEGEND:**

LINE/USE	PIPE SPEC.	PRESSURE	CONSTRUCTION	CLASS	INSULATION
10	1/2" 304 SS	150 PSIG	1/2" 304 SS	1	1
11	1/2" 304 SS	150 PSIG	1/2" 304 SS	1	1
12	1/2" 304 SS	150 PSIG	1/2" 304 SS	1	1
13	1/2" 304 SS	150 PSIG	1/2" 304 SS	1	1
14	1/2" 304 SS	150 PSIG	1/2" 304 SS	1	1
15	1/2" 304 SS	150 PSIG	1/2" 304 SS	1	1
16	1/2" 304 SS	150 PSIG	1/2" 304 SS	1	1
17	1/2" 304 SS	150 PSIG	1/2" 304 SS	1	1
18	1/2" 304 SS	150 PSIG	1/2" 304 SS	1	1
19	1/2" 304 SS	150 PSIG	1/2" 304 SS	1	1
20	1/2" 304 SS	150 PSIG	1/2" 304 SS	1	1

**COMPONENT SPECIFICATIONS:**

COMPONENT	MODEL	MANUFACTURER	DATE
D/G Lube Oil Pump	1000 GPM	1000 GPM	1000 GPM
Lube Oil Filter	1000 GPM	1000 GPM	1000 GPM
Lube Oil Storage Tank	1000 GPM	1000 GPM	1000 GPM
Lube Oil Line	1000 GPM	1000 GPM	1000 GPM

[illegible]

**ON CONDITION 1**


**CATANER RELEASE STATION UNIT 1**

**REVISIONS**

NO.	REV.	DESCRIPTION	DATE	BY	CHKD.
1	1	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
2	2	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
3	3	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
4	4	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
5	5	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
6	6	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
7	7	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
8	8	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
9	9	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
10	10	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
11	11	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
12	12	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
13	13	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
14	14	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
15	15	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
16	16	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
17	17	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
18	18	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
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21	21	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
22	22	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
23	23	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
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25	25	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
26	26	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
27	27	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
28	28	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
29	29	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
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31	31	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
32	32	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
33	33	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
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53	53	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
54	54	REVISIONS	10/10/68	W. J. HARRIS	W. J. HARRIS
55	55	REVISIONS	10/10/68	W. J. HARR	


**Figure 9-189. Diesel Generator Area Unit 1 General Arrangement**

Security-Related, Withhold under 10 CFR 2.390



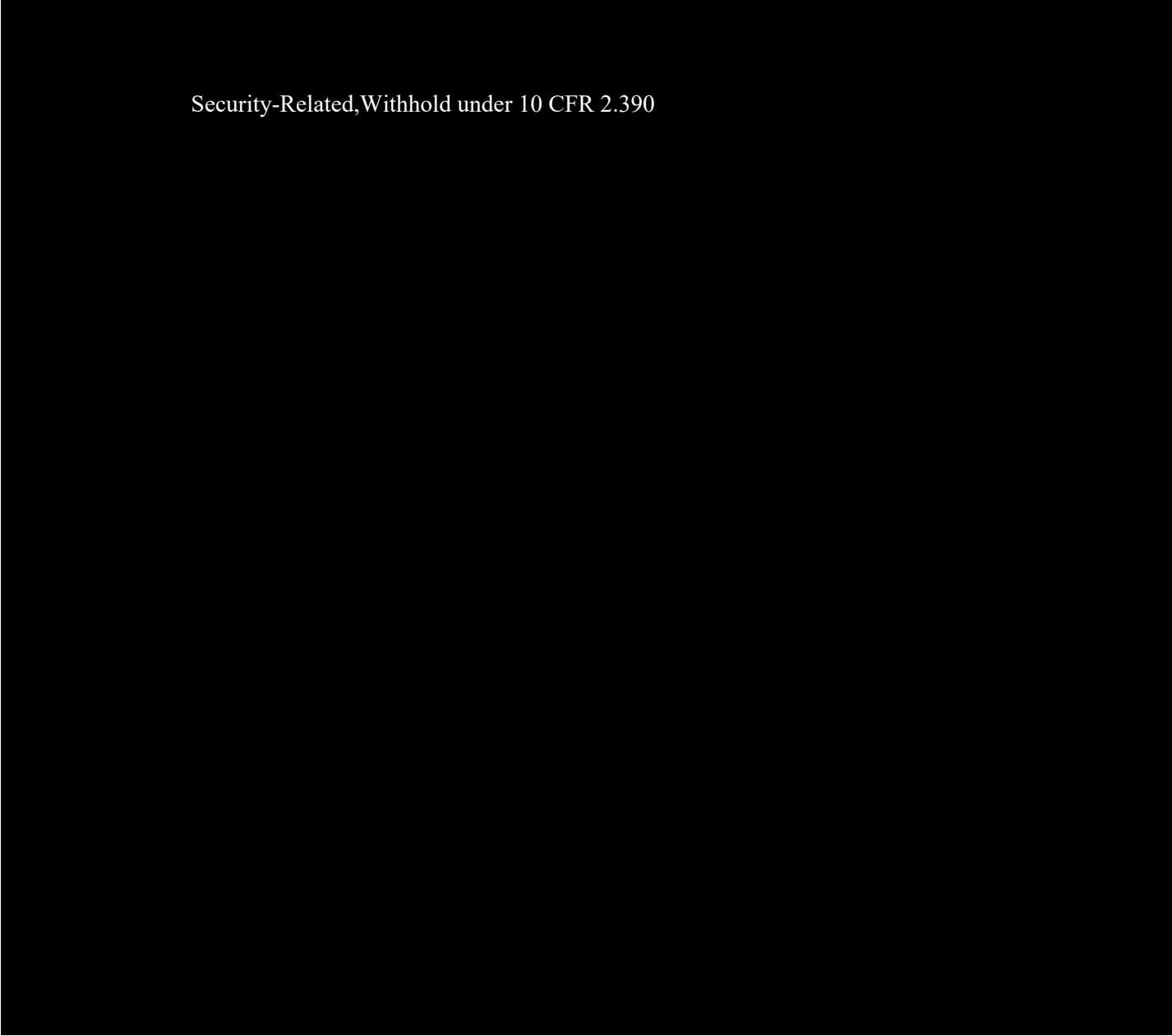
**Figure 9-190. Diesel Generator Area Unit 1 General Arrangement**

Security-Related, Withhold under 10 CFR 2.390



**Figure 9-191. Diesel Generator Area Unit 1 General Arrangement**

Security-Related, Withhold under 10 CFR 2.390



(22 OCT 2001)

Figure 9-192. Diesel Generator Rooms HVAC

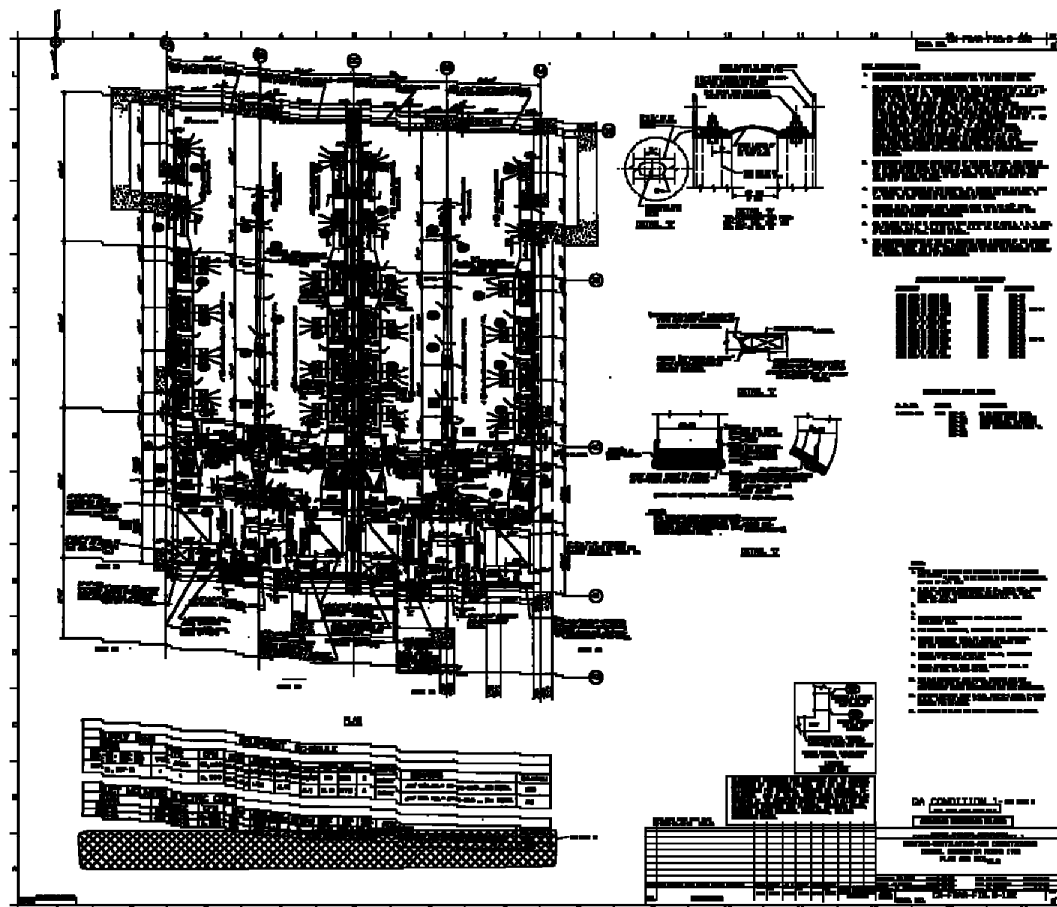


Figure 9-193. Flow Diagram of Diesel Generator Room Sump Pump System

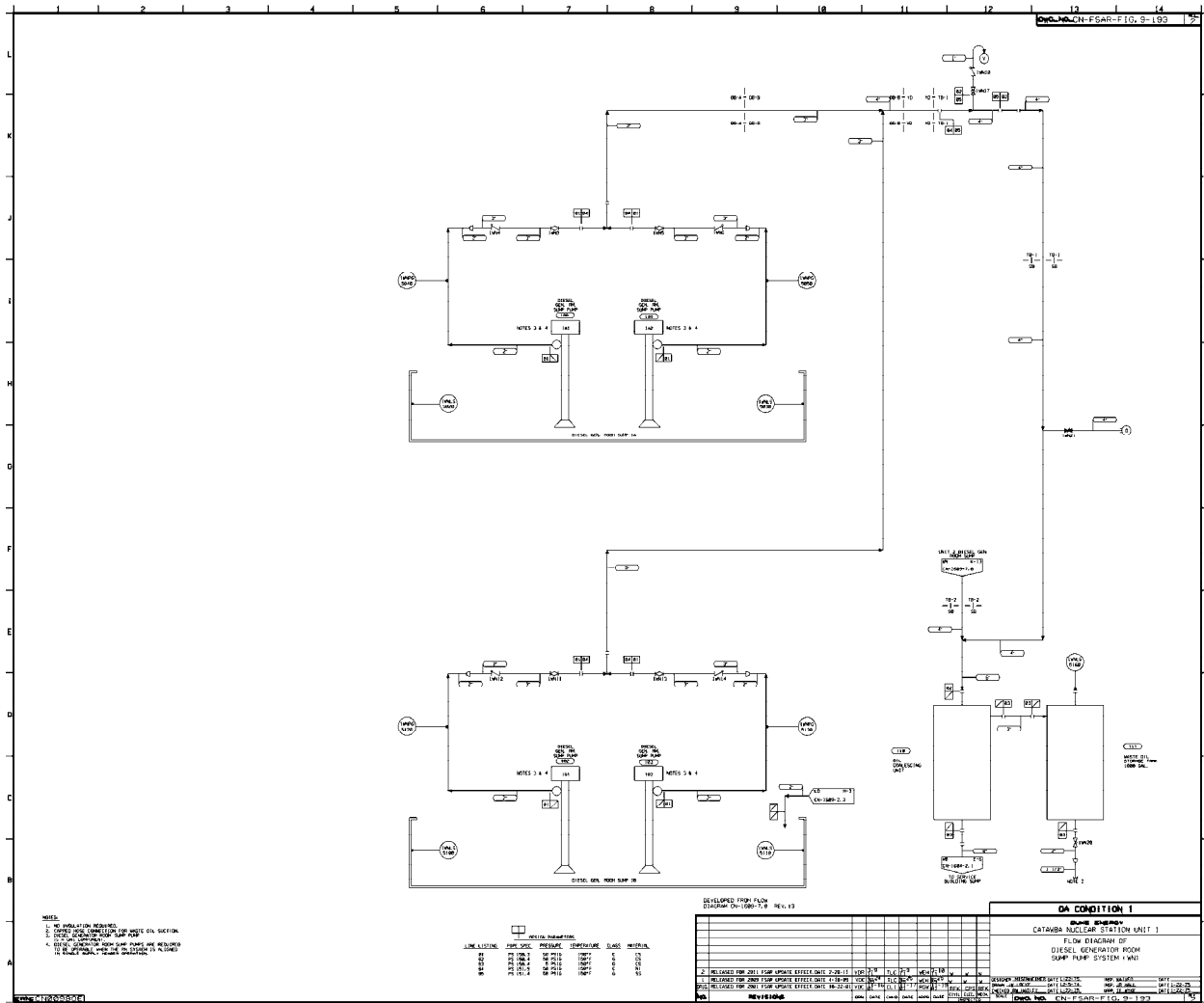




Figure 9-194. Flow Diagram of Containment Air Release and Addition System

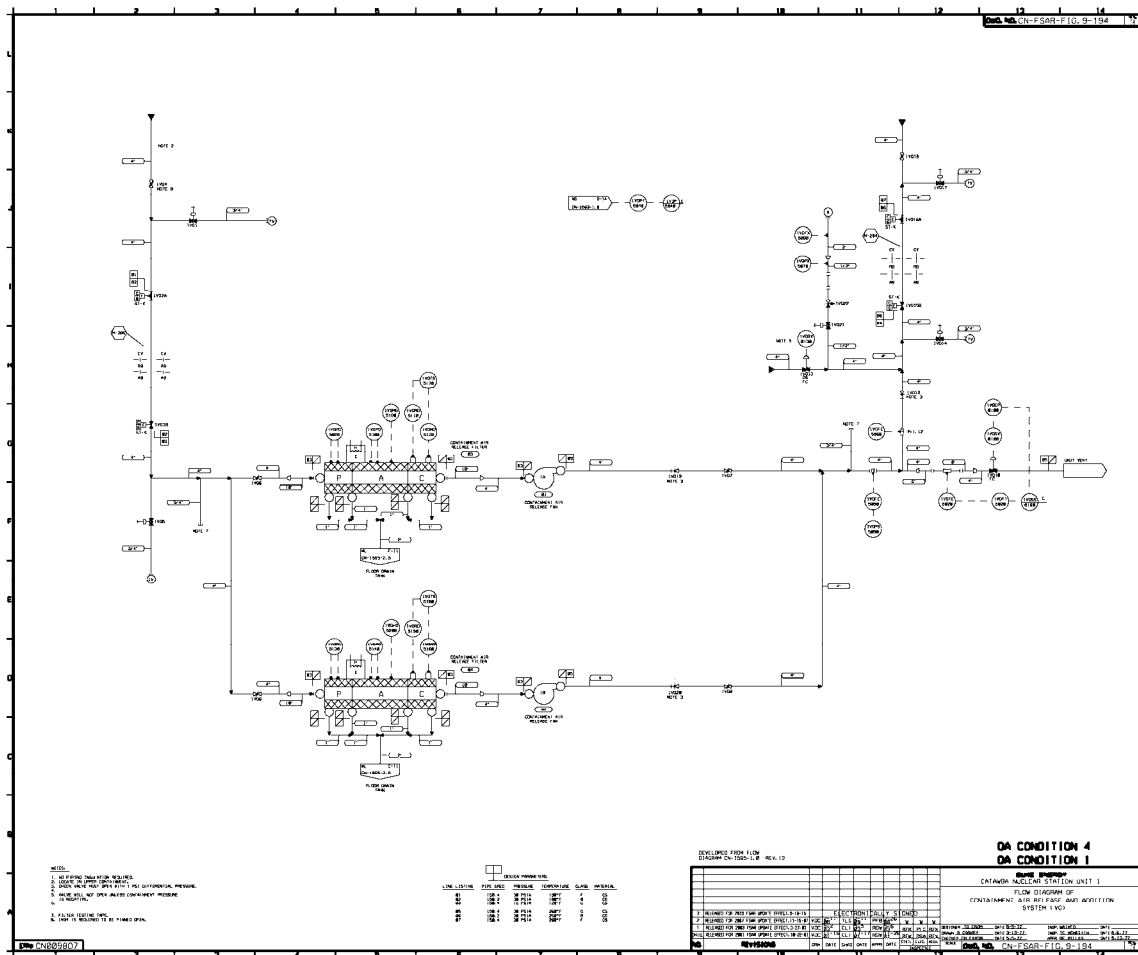
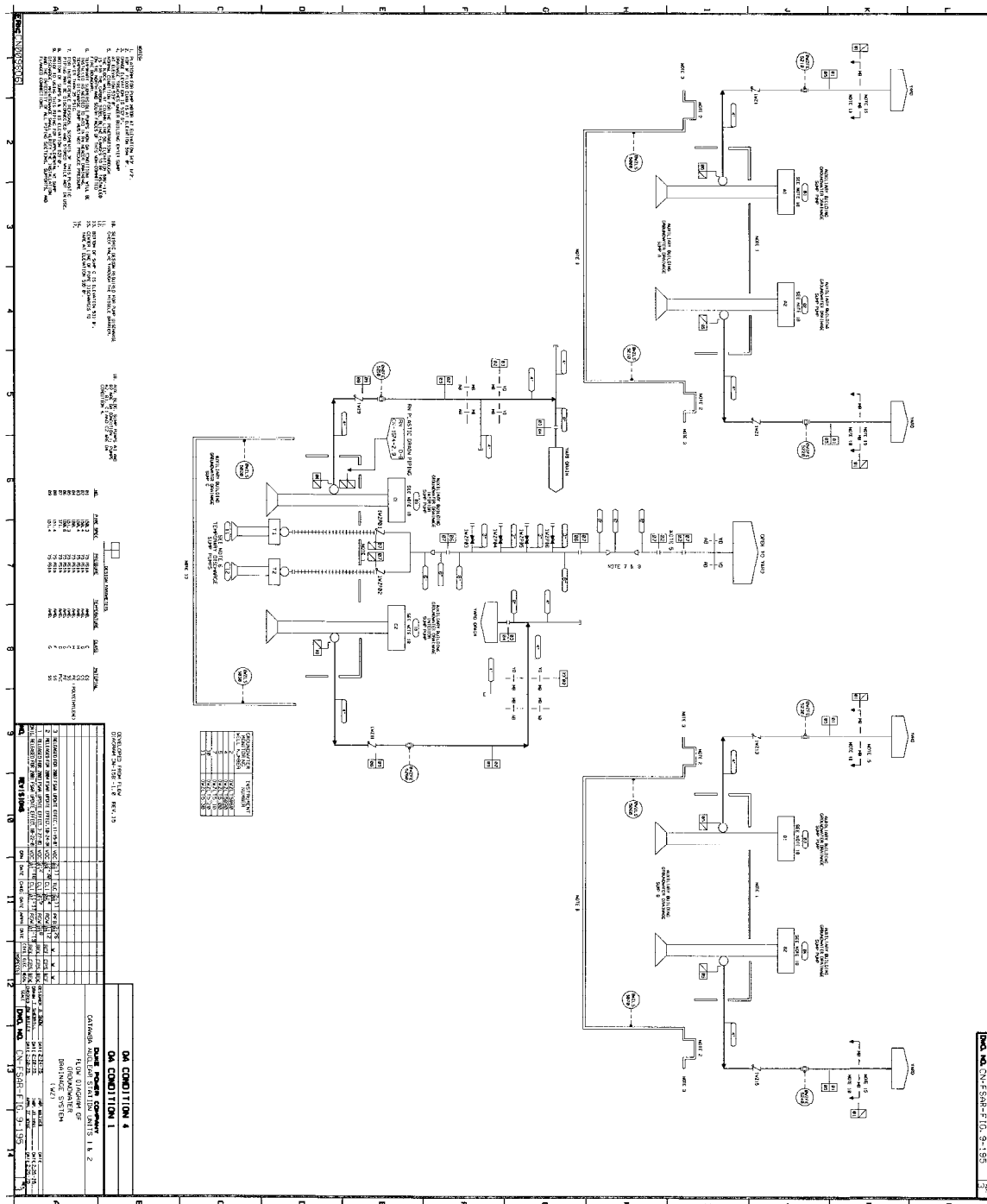


Figure 9-195. Flow Diagram of Groundwater System



(15 NOV 2007)

**(22 OCT 2001)**

**Figure 9-197. Deleted Per 2001 Update**

**Figure 9-198. Deleted Per 2001 Update**

**Figure 9-199. Deleted Per 2001 Update**

[illegible]

**LEGEND**

NO.	PIPE SPEC.	PRESSURE	TEMPERATURE	CLASS	MATERIAL
1	1/2" SCH 40	150 PSIG	300°F	1	304 SS
2	1/2" SCH 40	150 PSIG	300°F	1	304 SS
3	1/2" SCH 40	150 PSIG	300°F	1	304 SS
4	1/2" SCH 40	150 PSIG	300°F	1	304 SS
5	1/2" SCH 40	150 PSIG	300°F	1	304 SS
6	1/2" SCH 40	150 PSIG	300°F	1	304 SS
7	1/2" SCH 40	150 PSIG	300°F	1	304 SS
8	1/2" SCH 40	150 PSIG	300°F	1	304 SS
9	1/2" SCH 40	150 PSIG	300°F	1	304 SS
10	1/2" SCH 40	150 PSIG	300°F	1	304 SS
11	1/2" SCH 40	150 PSIG	300°F	1	304 SS
12	1/2" SCH 40	150 PSIG	300°F	1	304 SS
13	1/2" SCH 40	150 PSIG	300°F	1	304 SS
14	1/2" SCH 40	150 PSIG	300°F	1	304 SS
15	1/2" SCH 40	150 PSIG	300°F	1	304 SS
16	1/2" SCH 40	150 PSIG	300°F	1	304 SS
17	1/2" SCH 40	150 PSIG	300°F	1	304 SS
18	1/2" SCH 40	150 PSIG	300°F	1	304 SS
19	1/2" SCH 40	150 PSIG	300°F	1	304 SS
20	1/2" SCH 40	150 PSIG	300°F	1	304 SS
21	1/2" SCH 40	150 PSIG	300°F	1	304 SS
22	1/2" SCH 40	150 PSIG	300°F	1	304 SS
23	1/2" SCH 40	150 PSIG	300°F	1	304 SS
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25	1/2" SCH 40	150 PSIG	300°F	1	304 SS
26	1/2" SCH 40	150 PSIG	300°F	1	304 SS
27	1/2" SCH 40	150 PSIG	300°F	1	304 SS
28	1/2" SCH 40	150 PSIG	300°F	1	304 SS
29	1/2" SCH 40	150 PSIG	300°F	1	304 SS
30	1/2" SCH 40	150 PSIG	300°F	1	304 SS
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39	1/2" SCH 40	150 PSIG	300°F	1	304 SS
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41	1/2" SCH 40	150 PSIG	300°F	1	304 SS
42	1/2" SCH 40	150 PSIG	300°F	1	304 SS
43	1/2" SCH 40	150 PSIG	300°F	1	304 SS
44	1/2" SCH 40	150 PSIG	300°F	1	304 SS
45	1/2" SCH 40	150 PSIG	300°F	1	304 SS
46	1/2" SCH 40	150 PSIG	300°F	1	304 SS
47	1/2" SCH 40	150 PSIG	300°F	1	304 SS
48	1/2" SCH 40	150 PSIG	300°F	1	304 SS
49	1/2" SCH 40	150 PSIG	300°F	1	304 SS
50	1/2" SCH 40	150 PSIG	300°F	1	304 SS
51	1/2" SCH 40	150 PSIG	300°F	1	304 SS
52	1/2" SCH 40	150 PSIG	300°F	1	304 SS
53	1/2" SCH 40	150 PSIG	300°F	1	304 SS
54	1/2" SCH 40	150 PSIG	300°F	1	304 SS
55	1/2" SCH 40	150 PSIG	300°F	1	304 SS
56	1/2" SCH 40	150 PSIG	300°F	1	304 SS
57	1/2" SCH 40	150 PSIG	300°F	1	304 SS
58	1/2" SCH 40	150 PSIG	300°F	1	304 SS
59	1/2" SCH 40				

Figure 9-202. Nuclear Sampling System

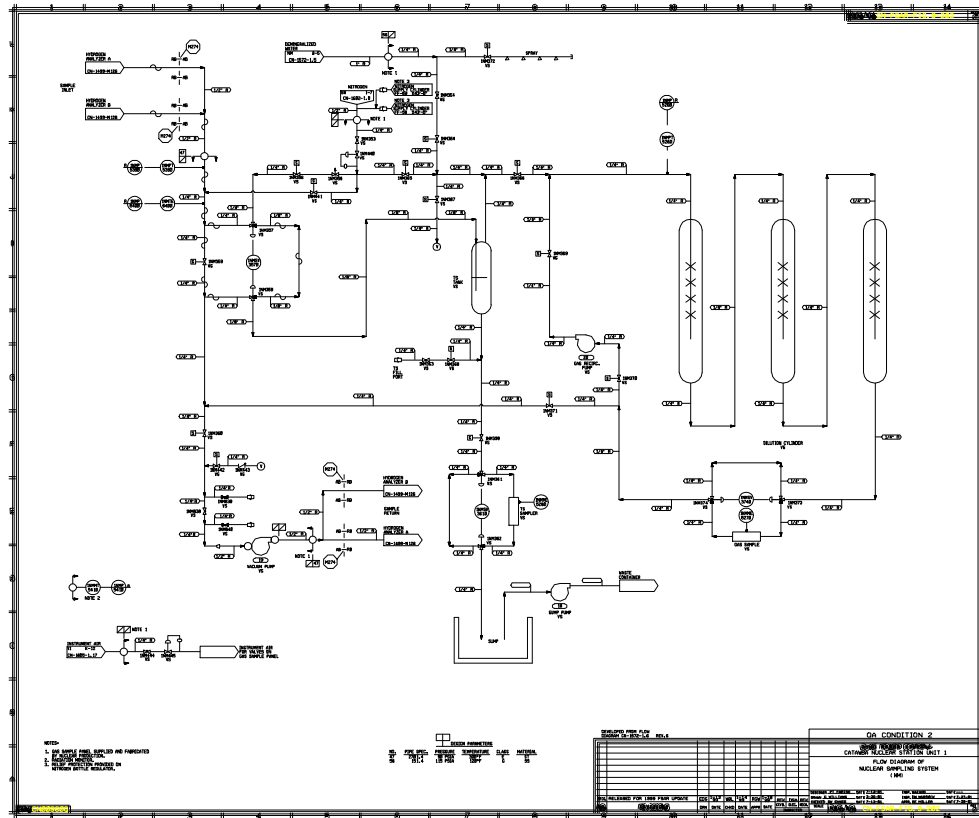






Figure 9-204. Component Cooling System

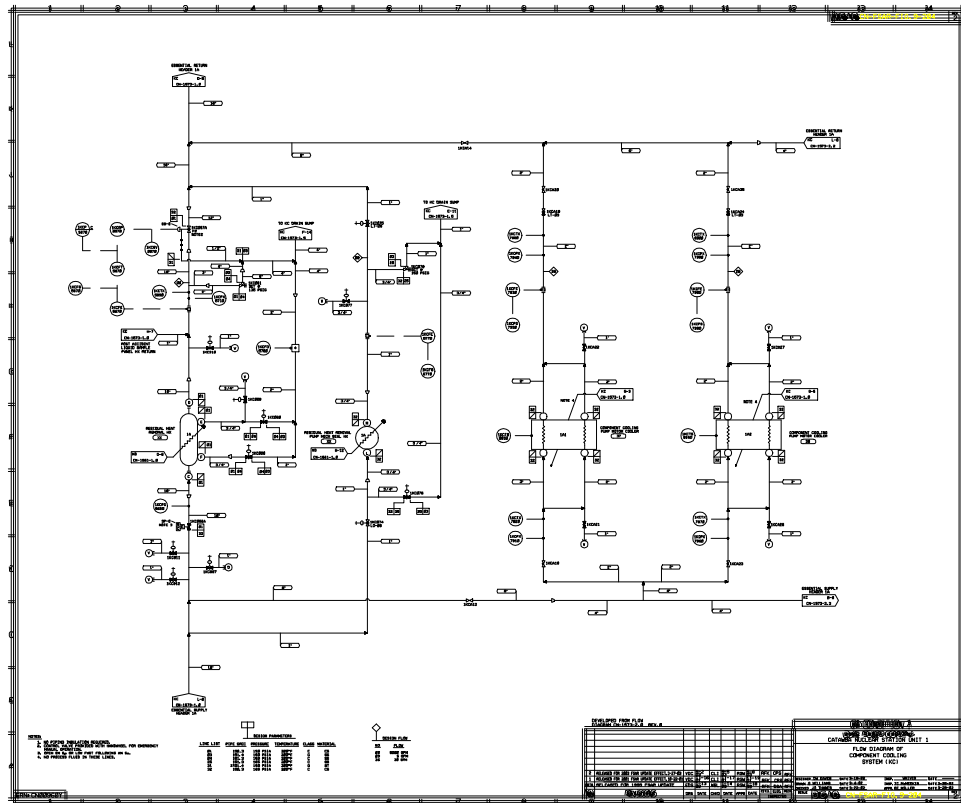
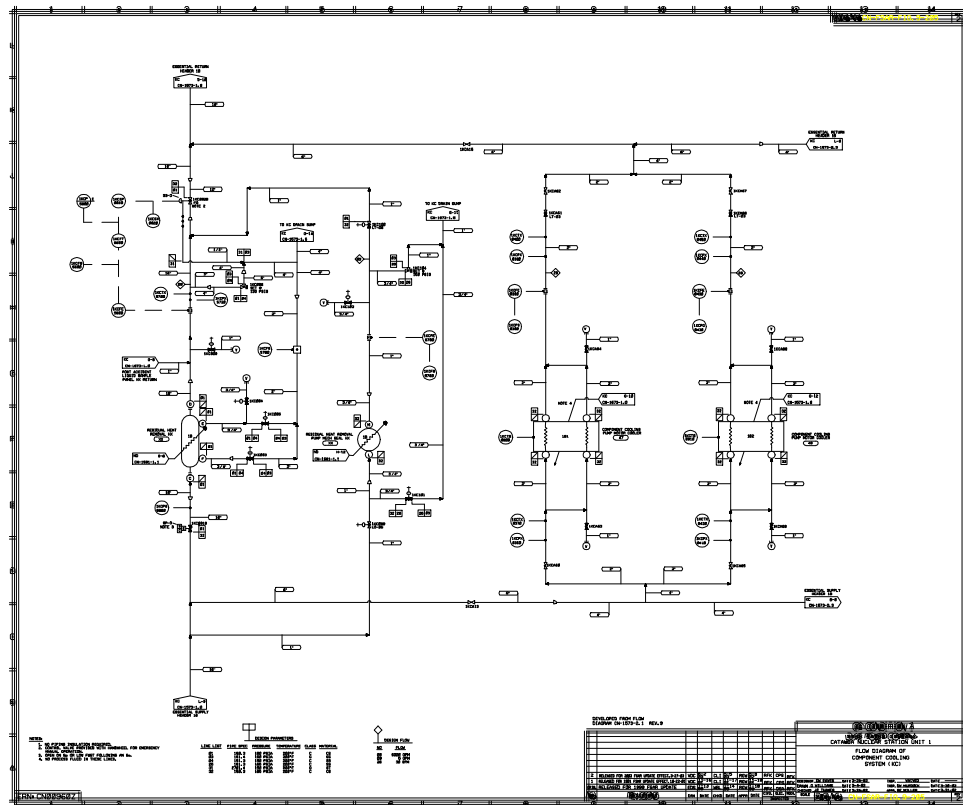


Figure 9-205. Component Cooling System



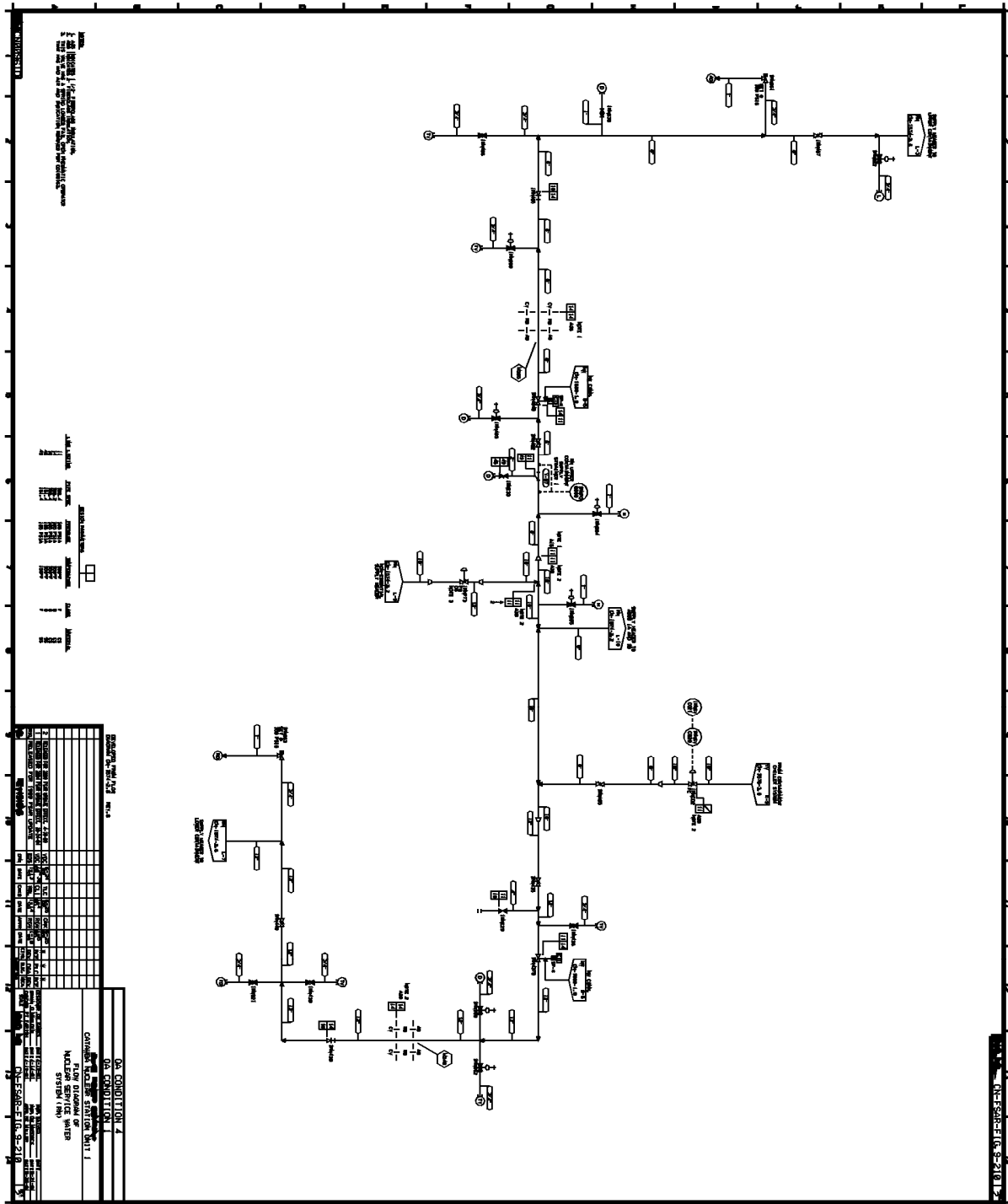
[illegible]






10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1

Figure 9-210. Nuclear Service Water System



**Figure 9-211. Containment Ventilation System**

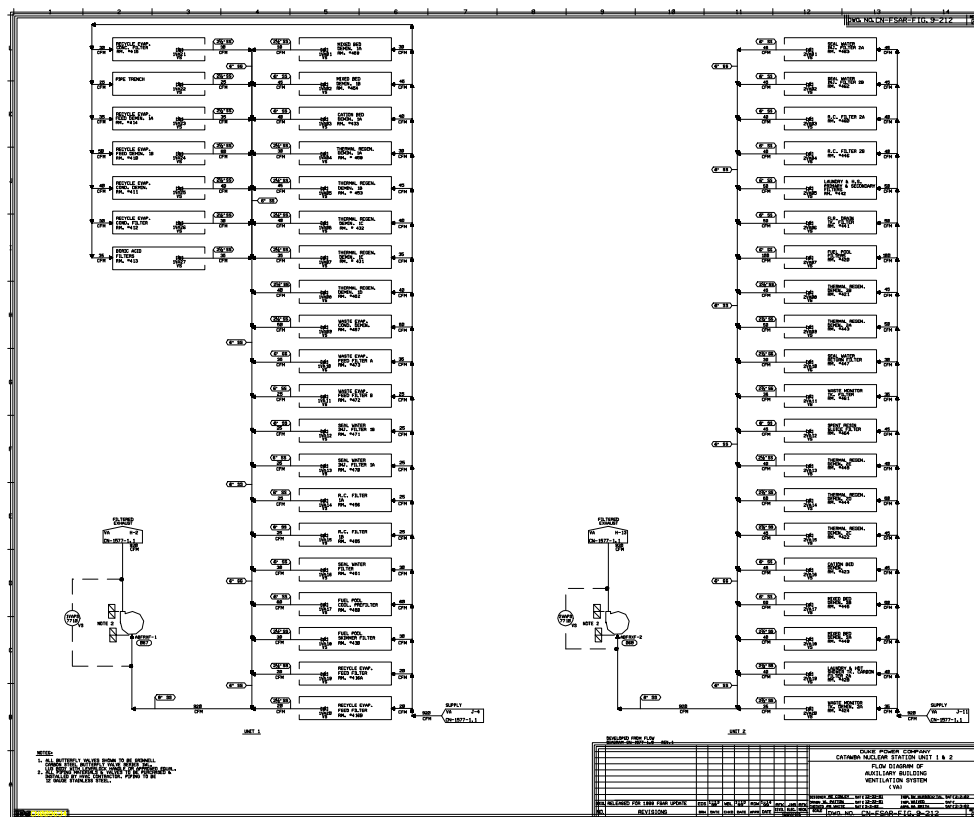
Security-Related, Withhold under 10 CFR 2.390



(18 APR 2009)



**(27 MAR 2003)**



The diagram illustrates a complex mechanical and electrical system, likely for a building's HVAC and power distribution. It features a central air conditioning unit with multiple air handlers and a network of ductwork and piping. The system is divided into several sections, with a large central area showing the main air conditioning system and smaller sections showing individual room or zone controls. The diagram is labeled with various components and their connections, including a legend at the bottom left.

**Legend:**

- 1. 1/2" NPT
- 2. 1/4" NPT
- 3. 1/8" NPT
- 4. 1/4" NPT
- 5. 1/2" NPT
- 6. 3/4" NPT
- 7. 1" NPT
- 8. 1 1/2" NPT
- 9. 2" NPT
- 10. 3" NPT
- 11. 4" NPT
- 12. 6" NPT
- 13. 8" NPT
- 14. 10" NPT
- 15. 12" NPT
- 16. 14" NPT
- 17. 16" NPT
- 18. 18" NPT
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- 43. 68" NPT
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- 45. 72" NPT
- 46. 74" NPT
- 47. 76" NPT
- 48. 78" NPT
- 49. 80" NPT
- 50. 82" NPT
- 51. 84" NPT
- 52. 86" NPT
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- 66. 114" NPT
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- 68. 118" NPT
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- 77. 136" NPT
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- 219. 420" NPT
- 220. 422" NPT
- 221. 424" NPT
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- 232. 446" NPT
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- 234. 450" NPT
- 235. 452" NPT
- 236. 454" NPT
- 237. 456" NPT
- 238. 458" NPT
- 239. 460" NPT
- 2

[illegible]



Figure 9-216. Auxiliary Building Ventilation System

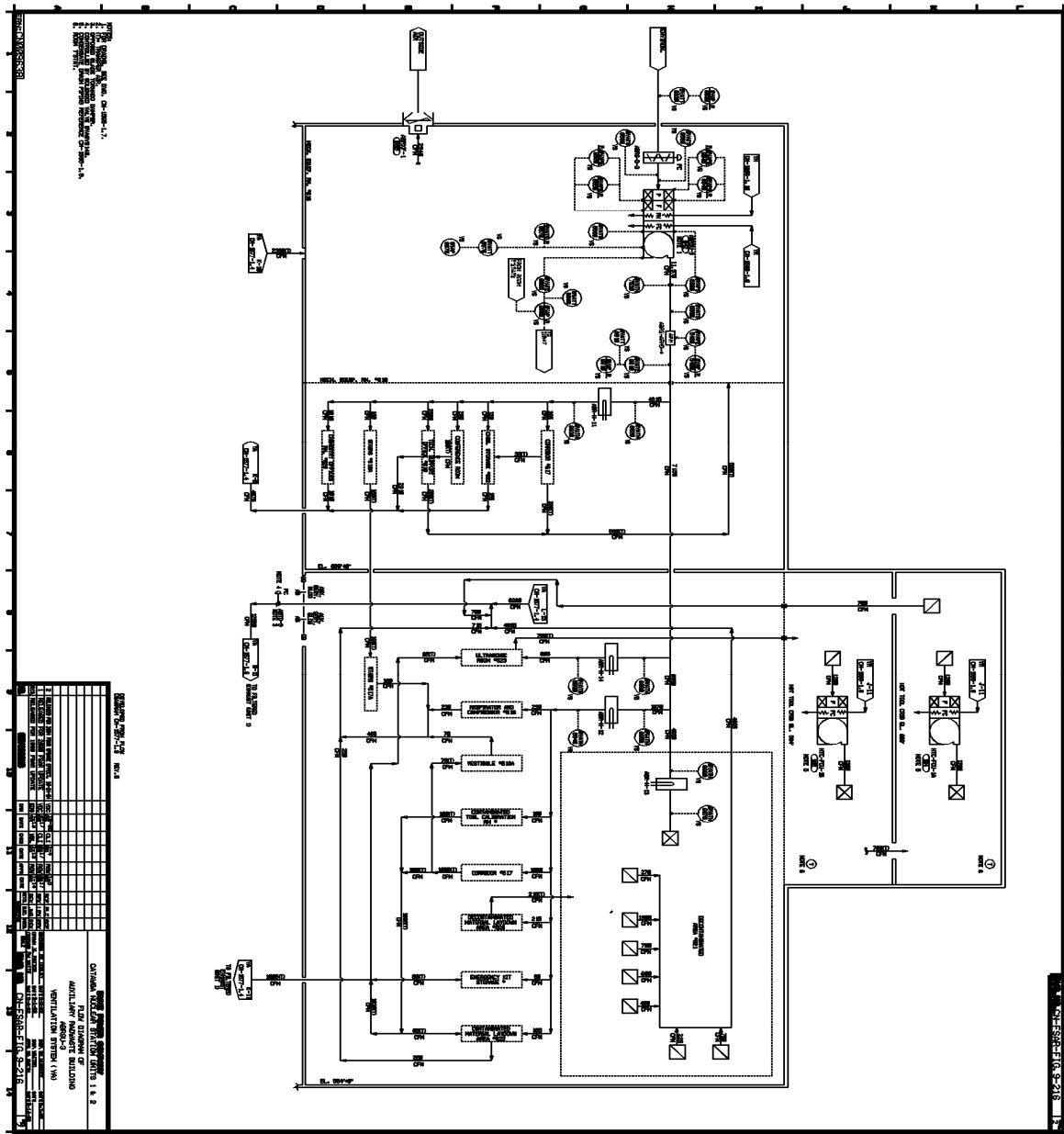
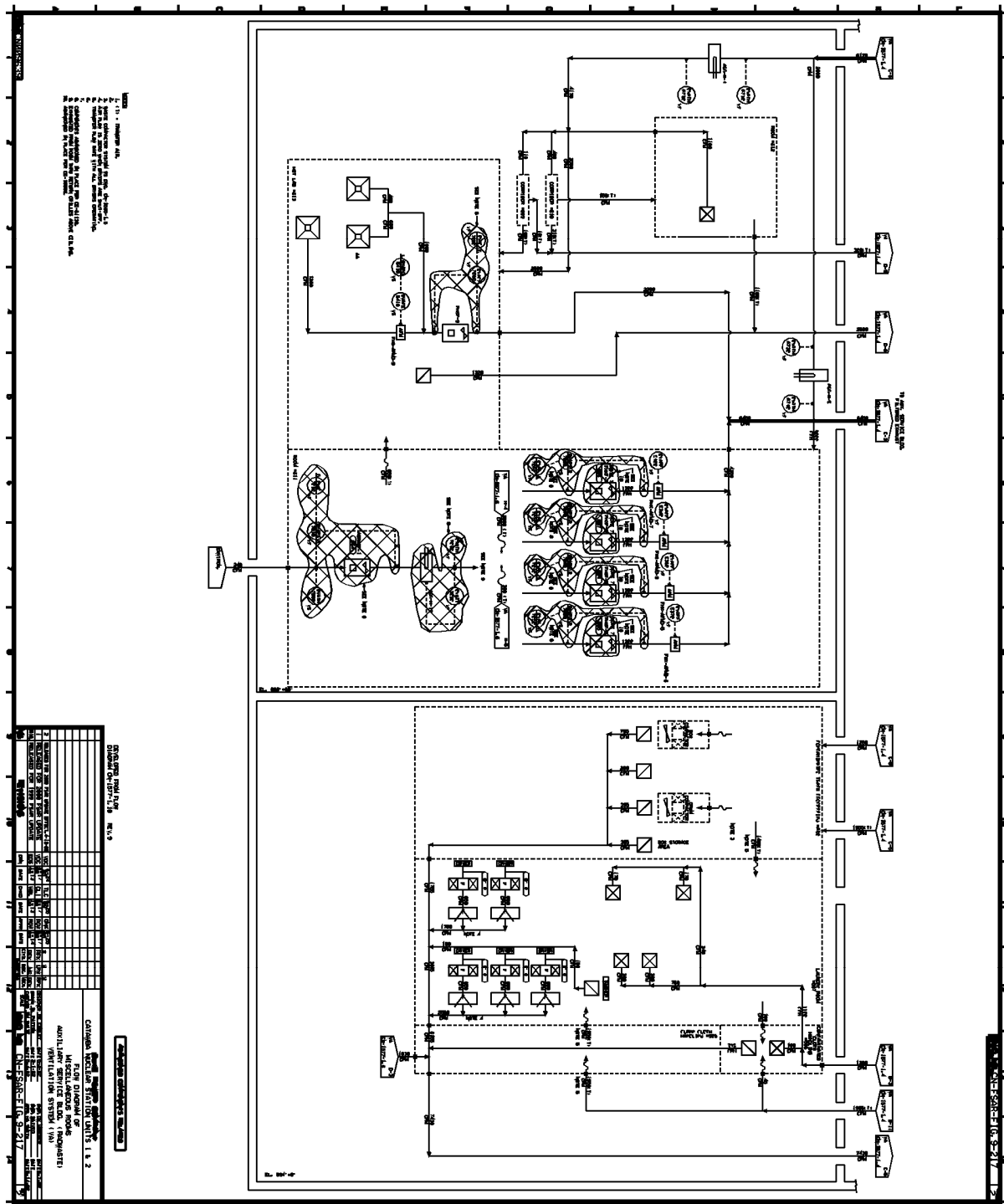


Figure 9-217. Auxiliary Building Ventilation System

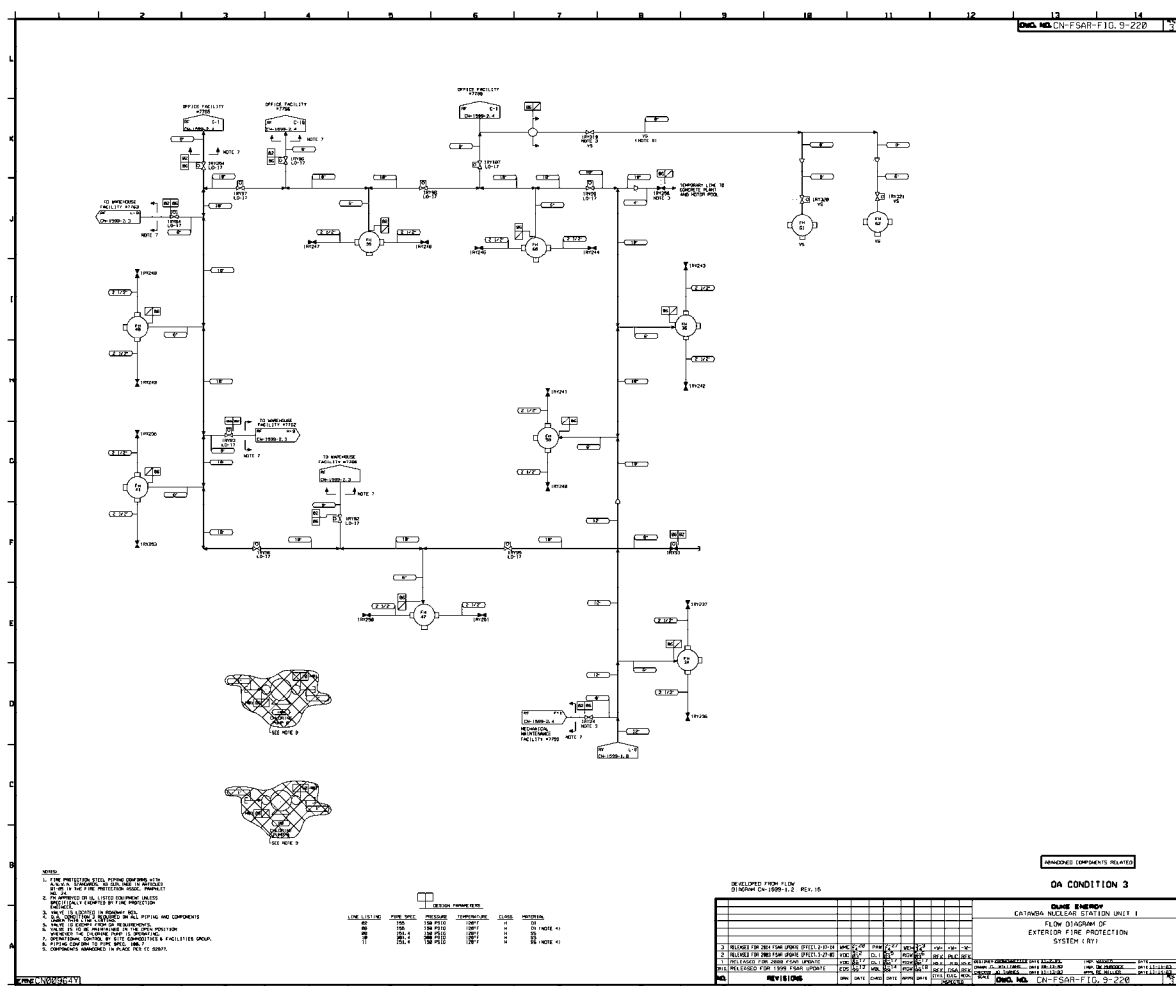


**Figure 9-218. Picture Placeholder**

**Figure 9-219. Picture Placeholder**



**(17 OCT 2013)**



**Legend:**

- 1. MAIN WATER SUPPLY
- 2. FIRE WATER STORAGE TANK
- 3. FIRE WATER PUMP
- 4. FIRE WATER PUMP
- 5. FIRE WATER PUMP
- 6. FIRE WATER PUMP
- 7. FIRE WATER PUMP
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- 98. FIRE WATER PUMP
- 99. FIRE WATER PUMP
- 100. FIRE WATER PUMP

**LEGEND**

SYMBOL	DESCRIPTION
(Symbol)	Valve
(Symbol)	Pump
(Symbol)	Flow Direction

**TABLE 1: SYSTEM PARAMETERS**

PARAMETER	UNIT	VALUE
Flow Rate	gpm	1000
Pressure	psi	100
Temperature	°F	100

**0 A CONDITION 3**

**CATWABA NUCLEAR STATION UNIT 1**

**INTERIM FIRE PROTECTION SYSTEM (IFP)**

**TABLE 2: SYSTEM PARAMETERS**

PARAMETER	UNIT	VALUE
Flow Rate	gpm	1000
Pressure	psi	100
Temperature	°F	100

**Figure 9-223. Makeup Demineralized Water System**

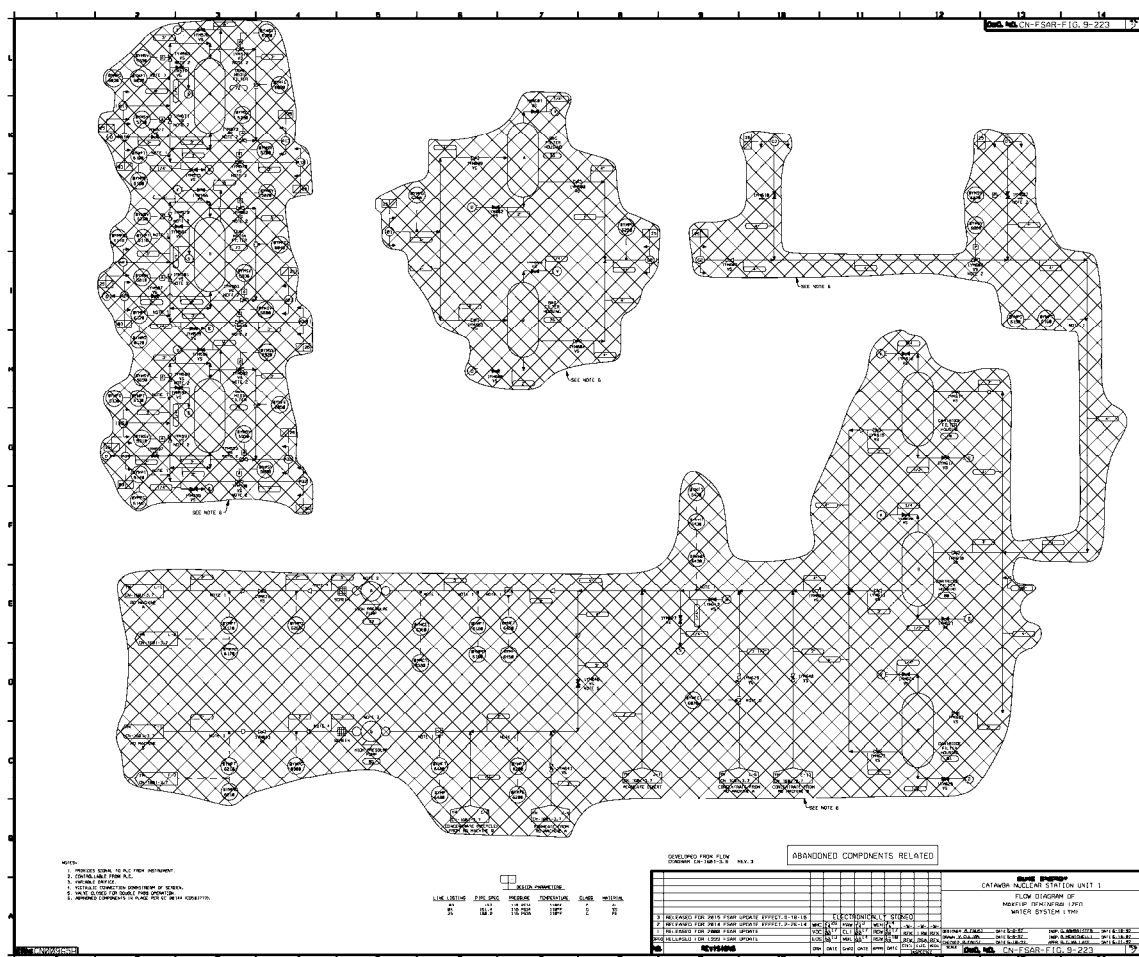
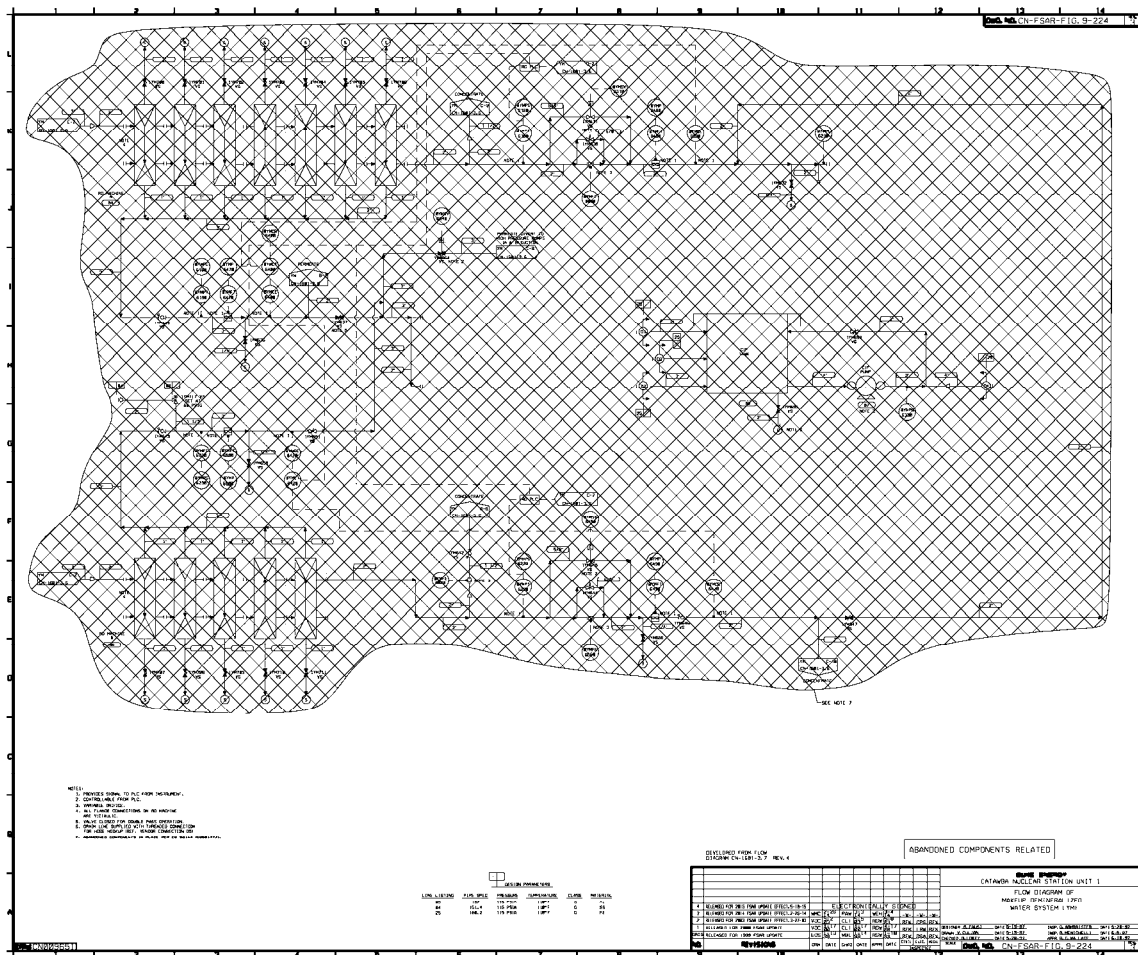
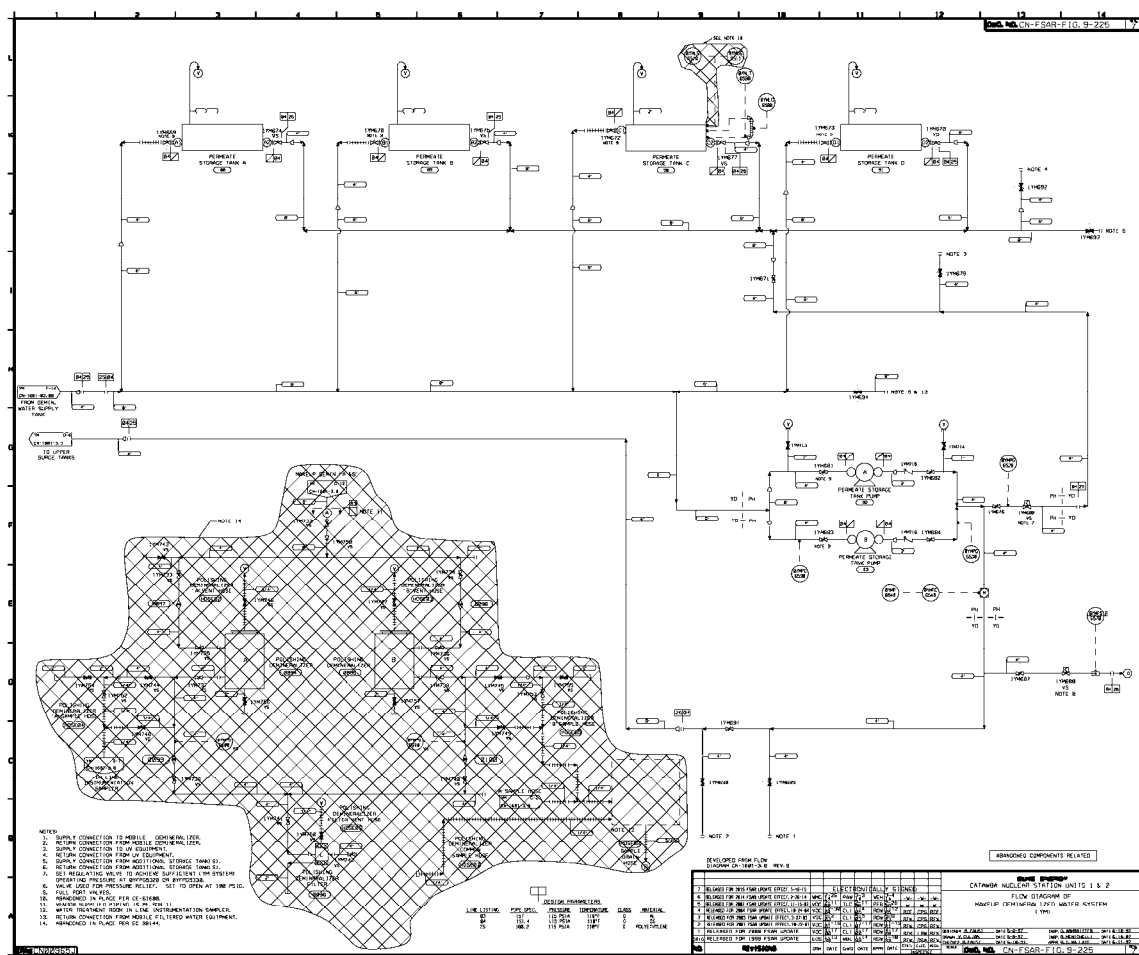


Figure 9-224. Makeup Demineralized Water System



**(05 APR 2015)**



[illegible]

Figure 9-227. Instrument Air System

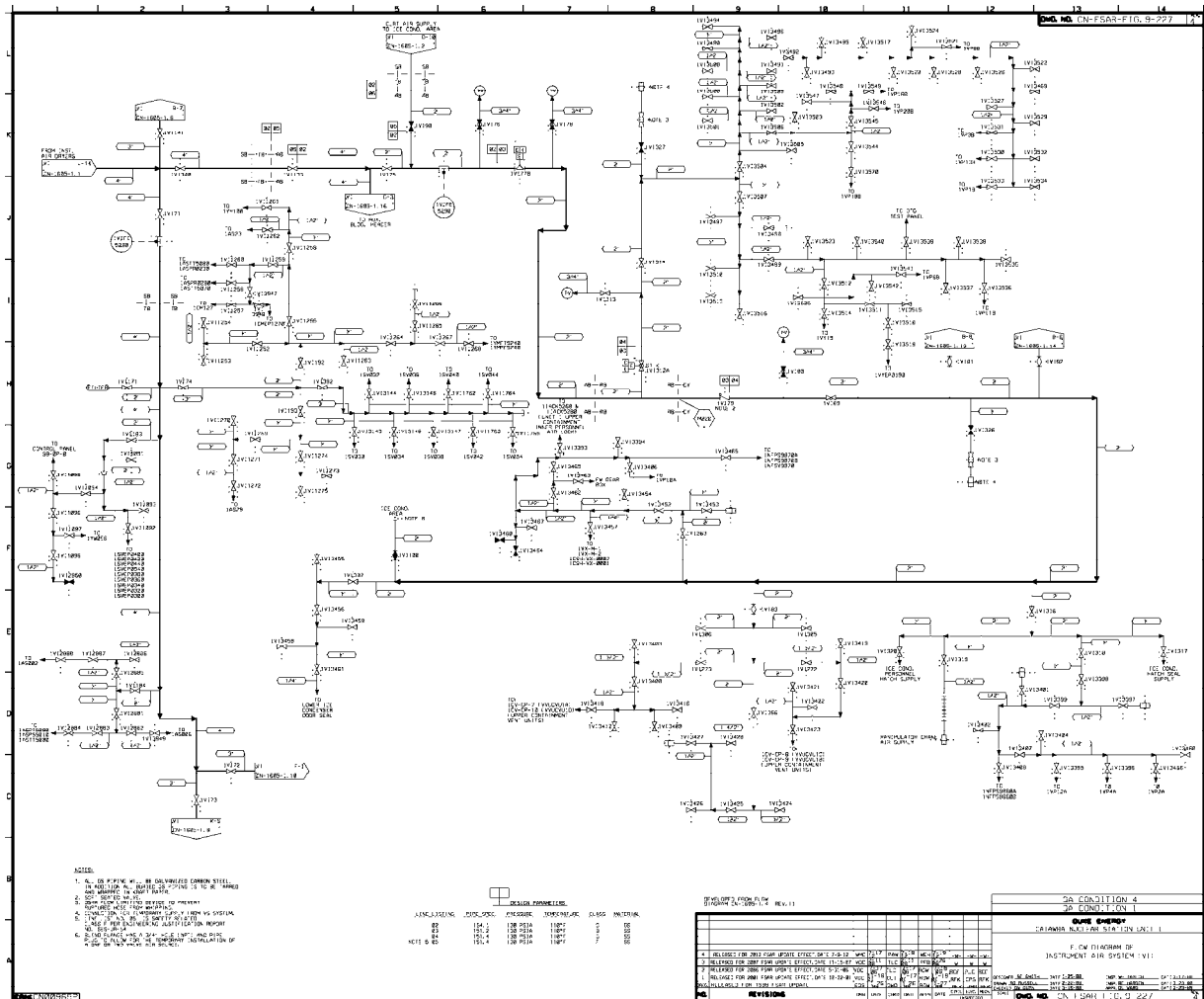






Figure 9-229. Instrument Air System

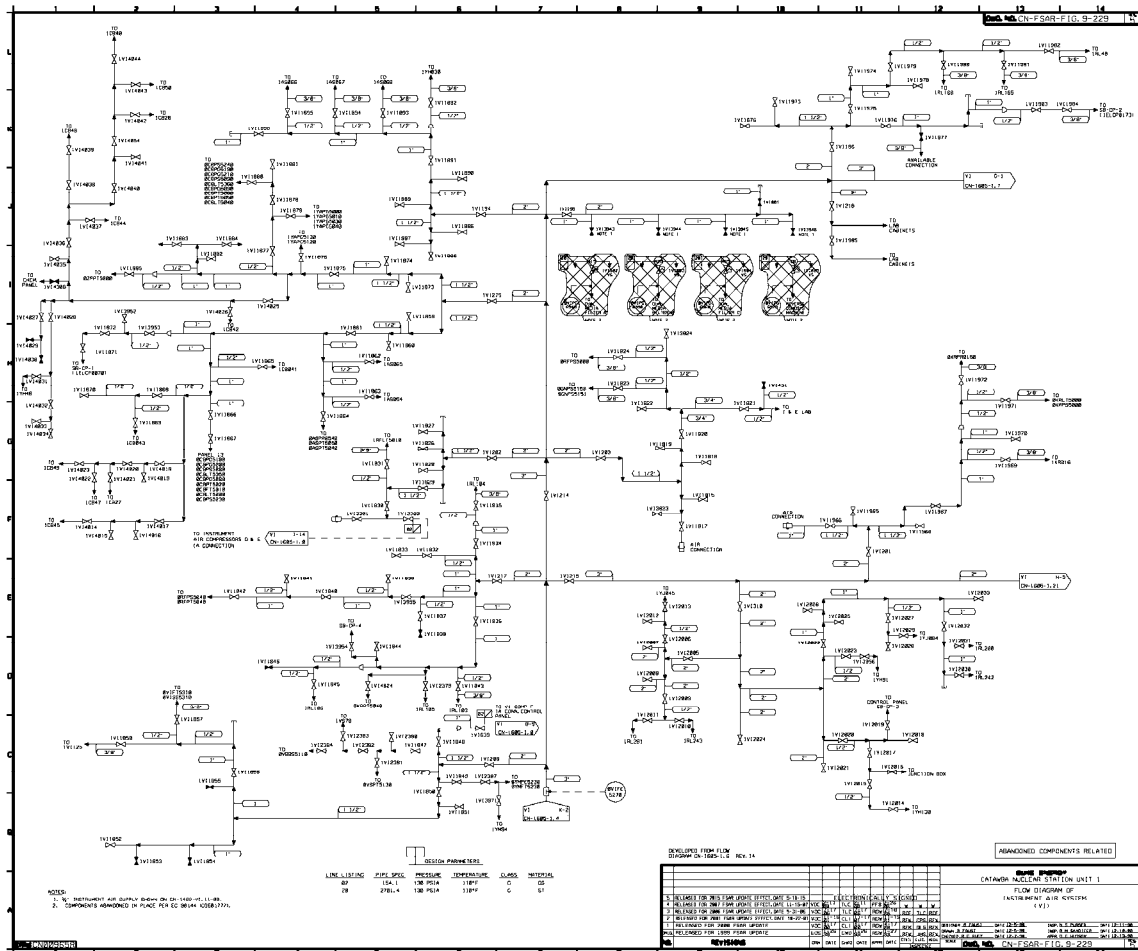


Figure 9-230. Instrument Air System

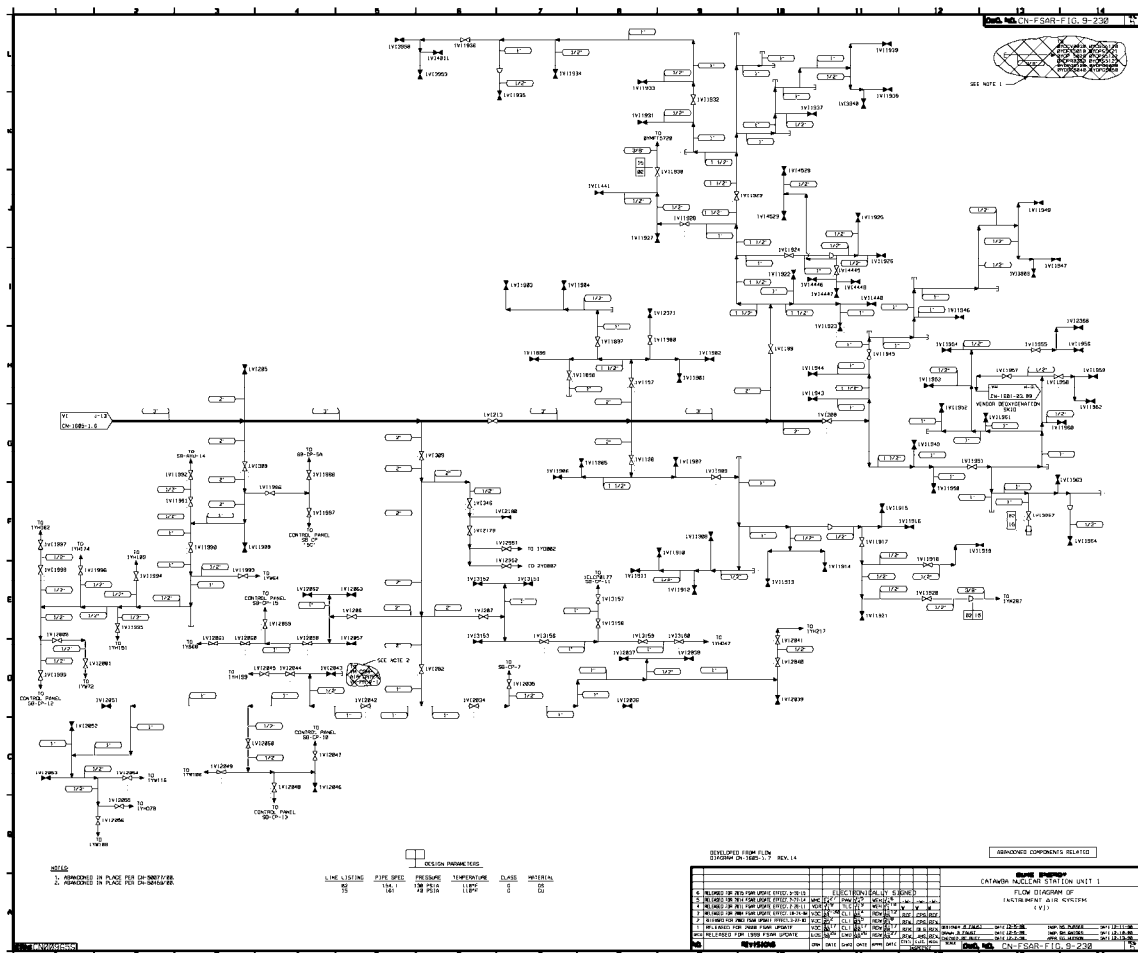
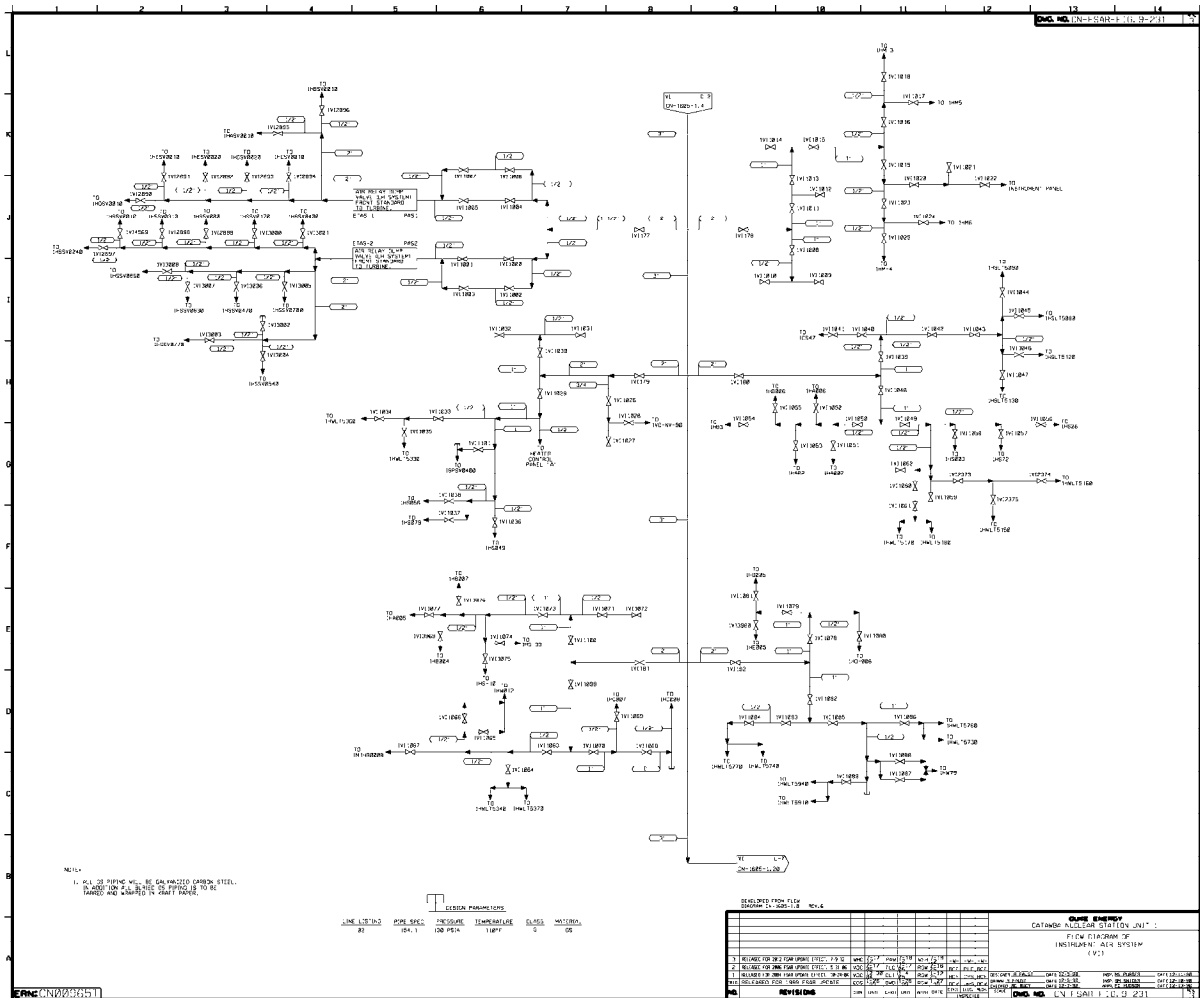


Figure 9-231. Instrument Air System



**Figure 9-232. Instrument Air System**

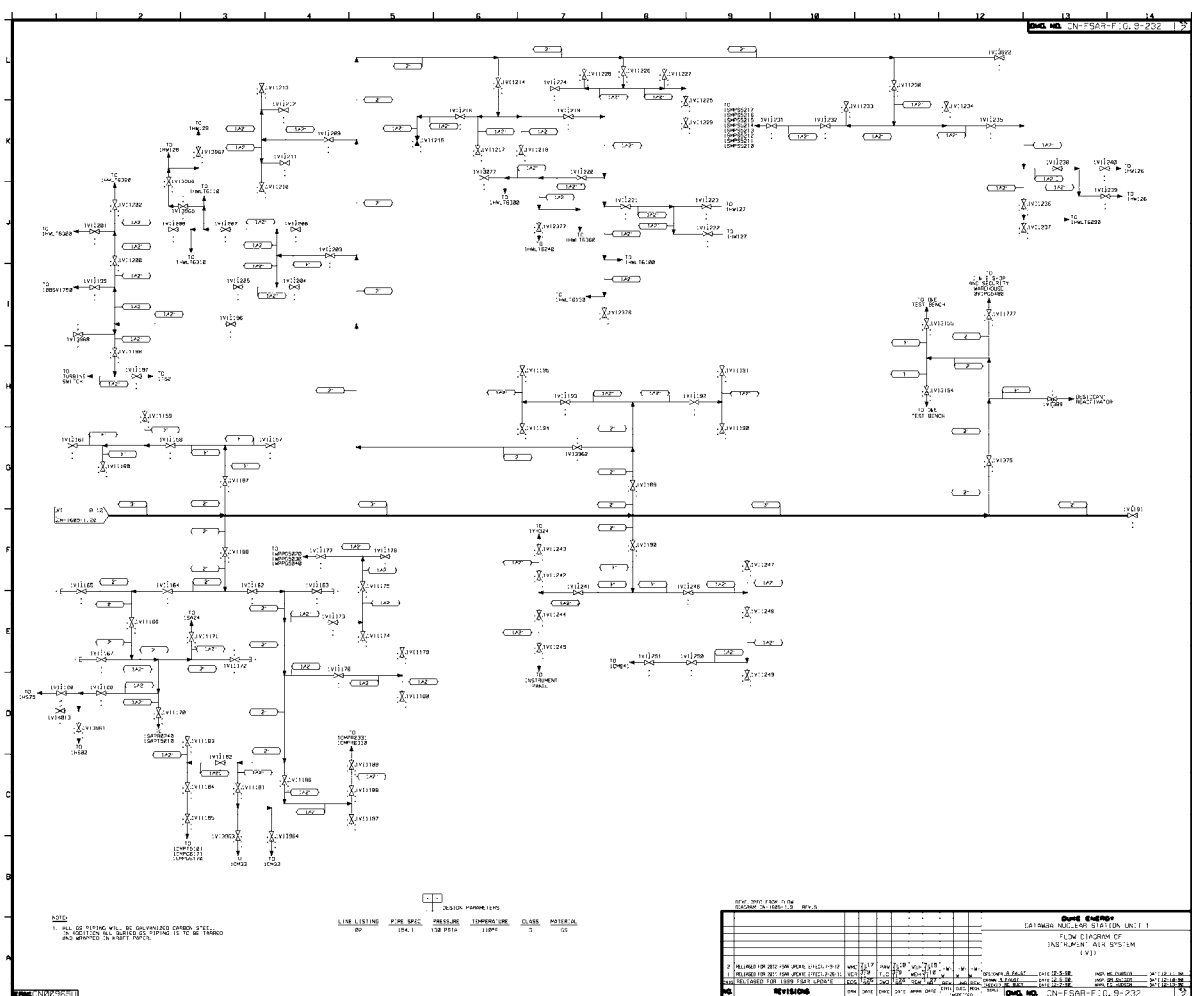
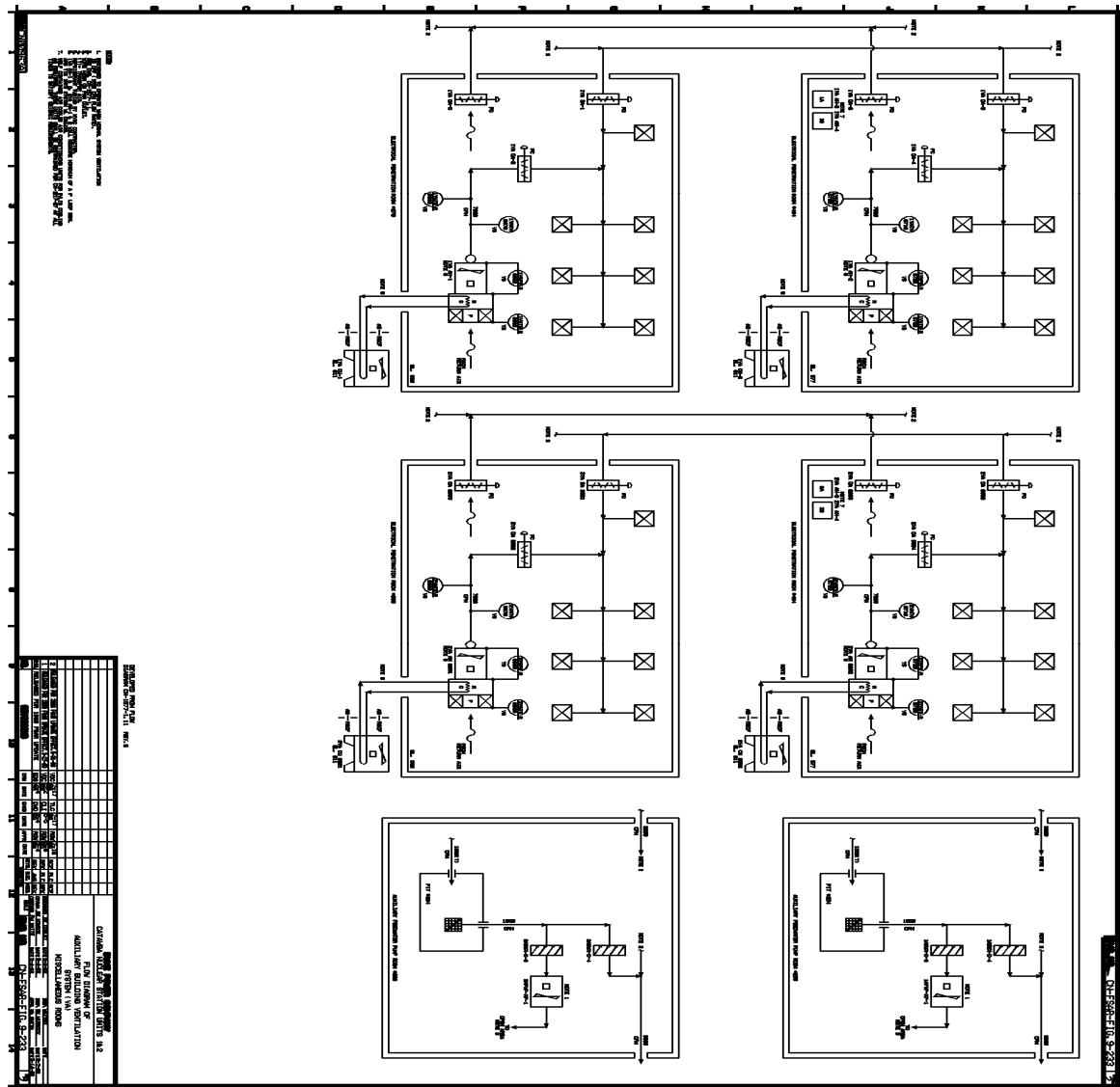


Figure 9-233. Auxiliary Building Ventilation System



(24 APR 2006)

Figure 9-234. Instrument Air System

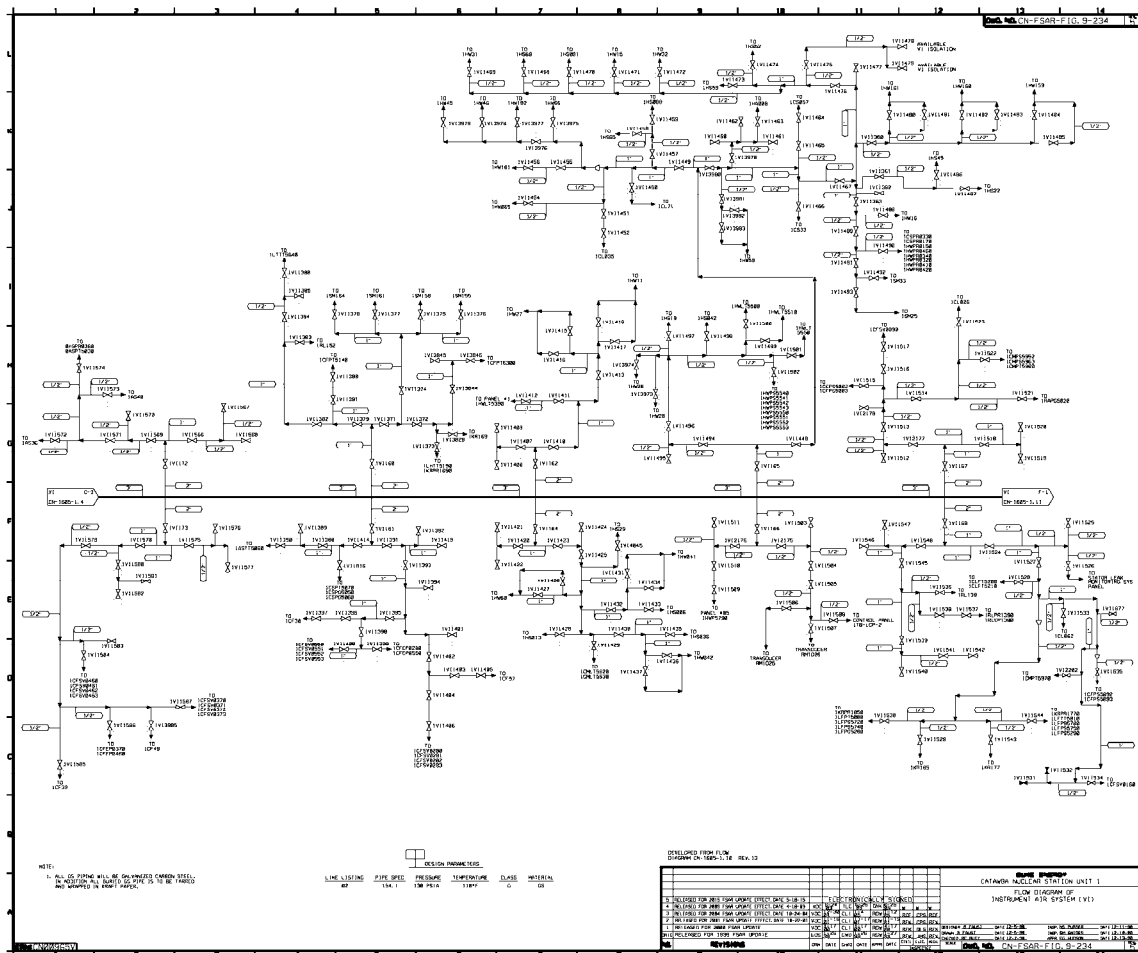


Figure 9-235. Instrument Air System

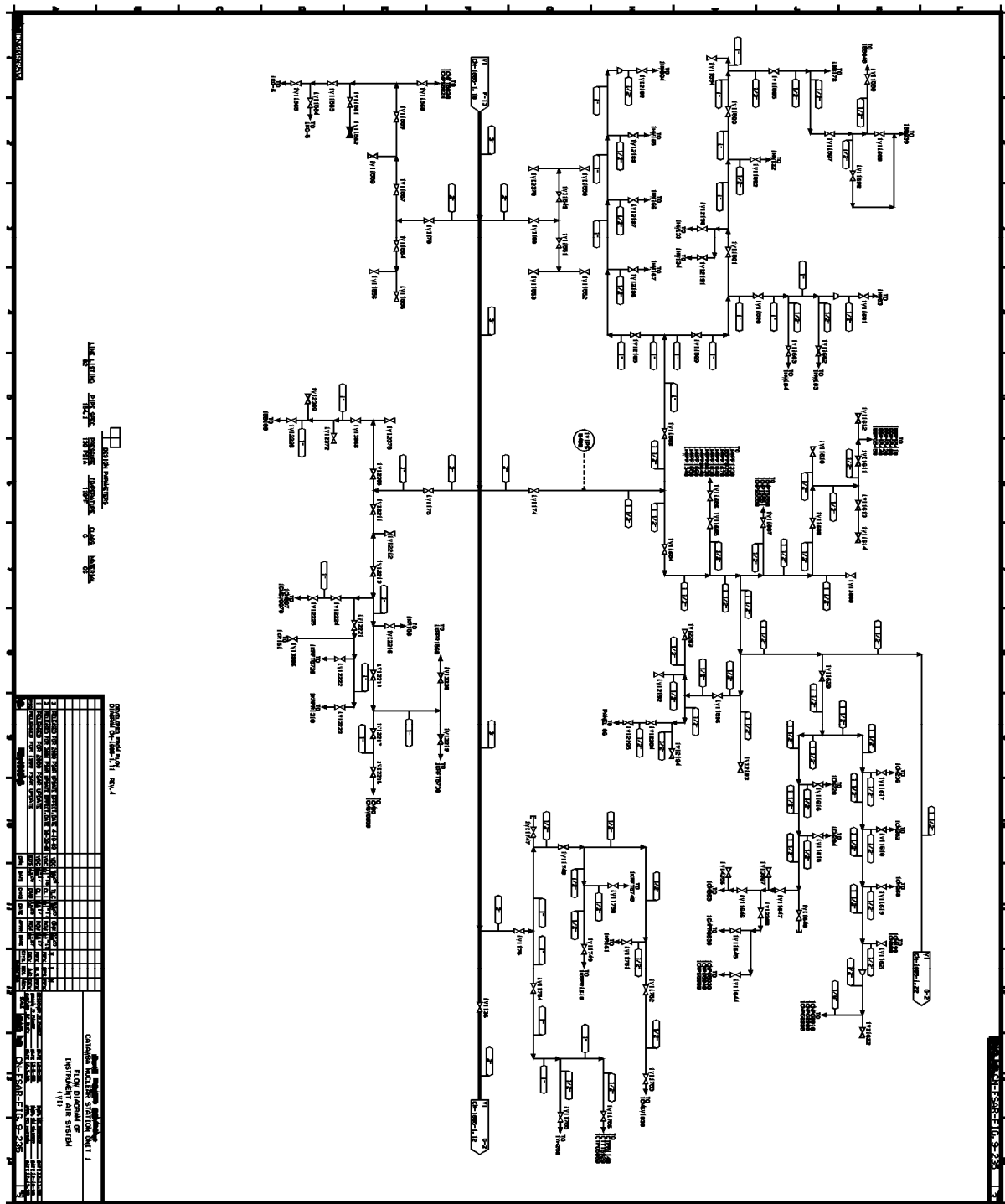




Figure 9-236. Instrument Air System

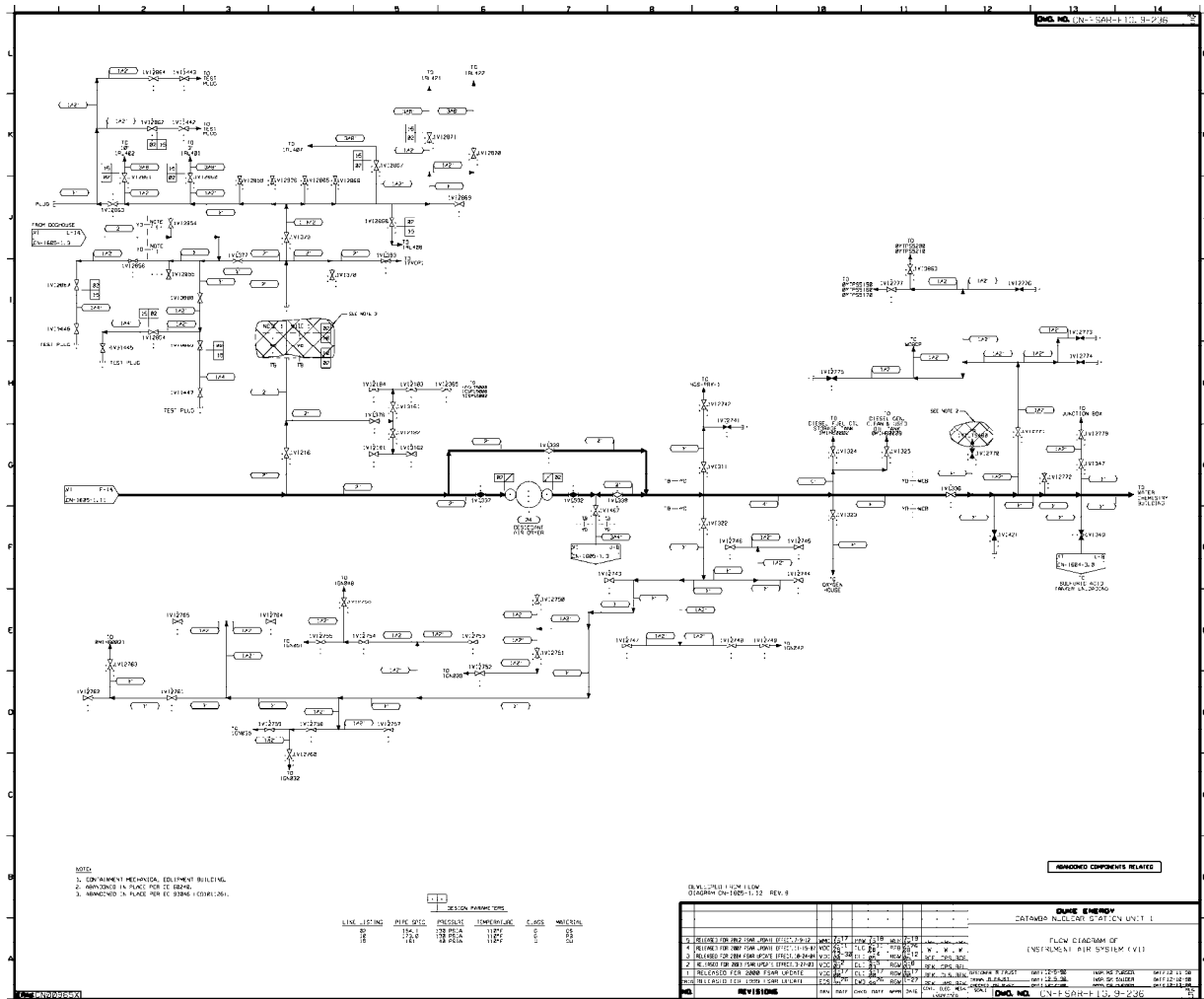


Figure 9-237. Instrument Air System

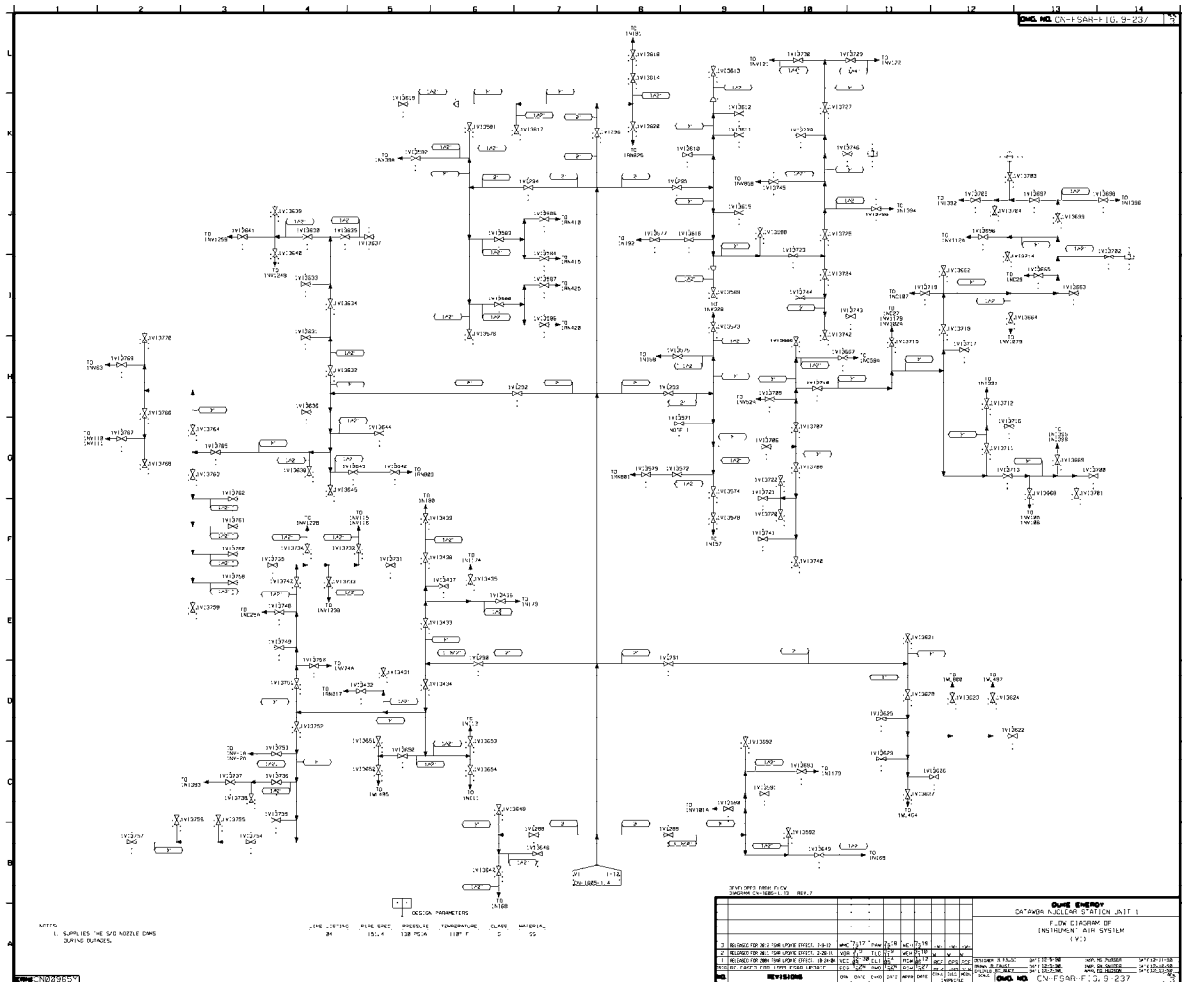


Figure 9-238. Instrument Air System

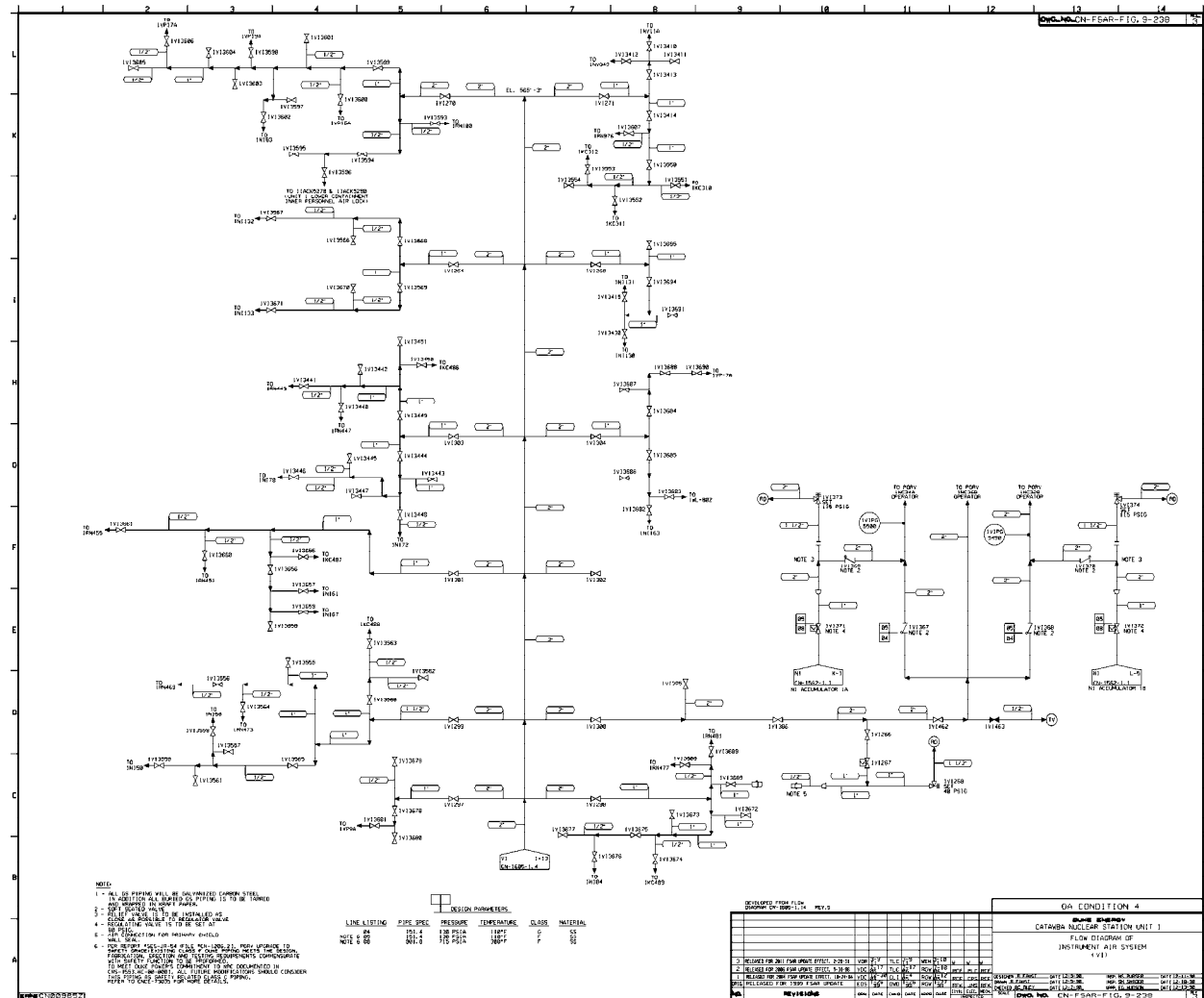
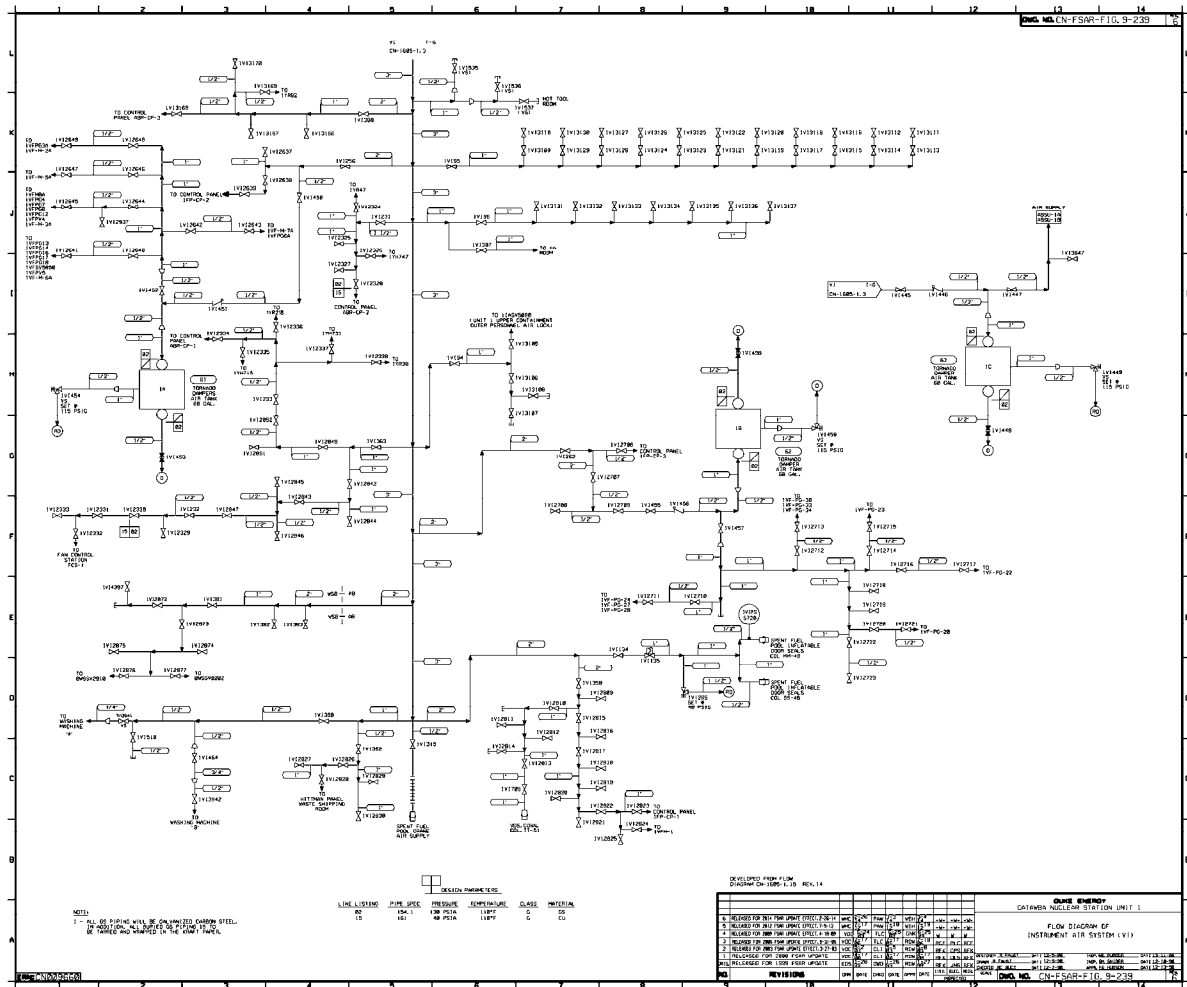


Figure 9-239. Instrument Air System



[illegible]

CHATEAUX NUCLEAR STATION UNIT 1  
INSTRUMENT AIR SYSTEM

LEGEND:

LINE	TYPE	VALVE	PRESSURE	TEMPERATURE	CLASS	MATERIAL
1	PIPE	114301	114302	114303	114304	114305
2	PIPE	114306	114307	114308	114309	114310
3	PIPE	114311	114312	114313	114314	114315
4	PIPE	114316	114317	114318	114319	114320
5	PIPE	114321	114322	114323	114324	114325
6	PIPE	114326	114327	114328	114329	114330
7	PIPE	114331	114332	114333	114334	114335
8	PIPE	114336	114337	114338	114339	114340
9	PIPE	114341	114342	114343	114344	114345
10	PIPE	114346	114347	114348	114349	114350
11	PIPE	114351	114352	114353	114354	114355
12	PIPE	114356	114357	114358	114359	114360
13	PIPE	114361	114362	114363	114364	114365
14	PIPE	114366	114367	114368	114369	114370
15	PIPE	114371	114372	114373	114374	114375
16	PIPE	114376	114377	114378	114379	114380
17	PIPE	114381	114382	114383	114384	114385
18	PIPE	114386	114387	114388	114389	114390
19	PIPE	114391	114392	114393	114394	114395
20	PIPE	114396	114397	114398	114399	114400
21	PIPE	114401	114402	114403	114404	114405
22	PIPE	114406	114407	114408	114409	114410
23	PIPE	114411	114412	114413	114414	114415
24	PIPE	114416	114417	114418	114419	114420
25	PIPE	114421	114422	114423	114424	114425
26	PIPE	114426	114427	114428	114429	114430
27	PIPE	114431	114432	114433	114434	114435
28	PIPE	114436	114437	114438	114439	114440
29	PIPE	114441	114442	114443	114444	114445
30	PIPE	114446	114447	114448	114449	114450
31	PIPE	114451	114452	114453	114454	114455
32	PIPE	114456	114457	114458	114459	114460
33	PIPE	114461	114462	114463	114464	114465
34	PIPE	114466	114467	114468	114469	114470
35	PIPE	114471	114472	114473	114474	114475
36	PIPE	114476	114477	114478	114479	114480
37	PIPE	114481	114482	114483	114484	114485
38	PIPE	114486	114487	114488	114489	114490
39	PIPE	114491	114492	114493	114494	114495
40	PIPE	114496	114497	114498	114499	114500
41	PIPE	114501	114502	114503	114504	114505
42	PIPE	114506	114507	114508	114509	114510
43	PIPE	114511	114512	114513	114514	114515
44	PIPE	114516	114517	114518	114519	114520
45	PIPE	114521	114522	114523	114524	114525
46	PIPE	114526	114527	114528	114529	114530
47	PIPE	114531	114532	1		

[illegible]

Figure 9-243. Instrument Air System

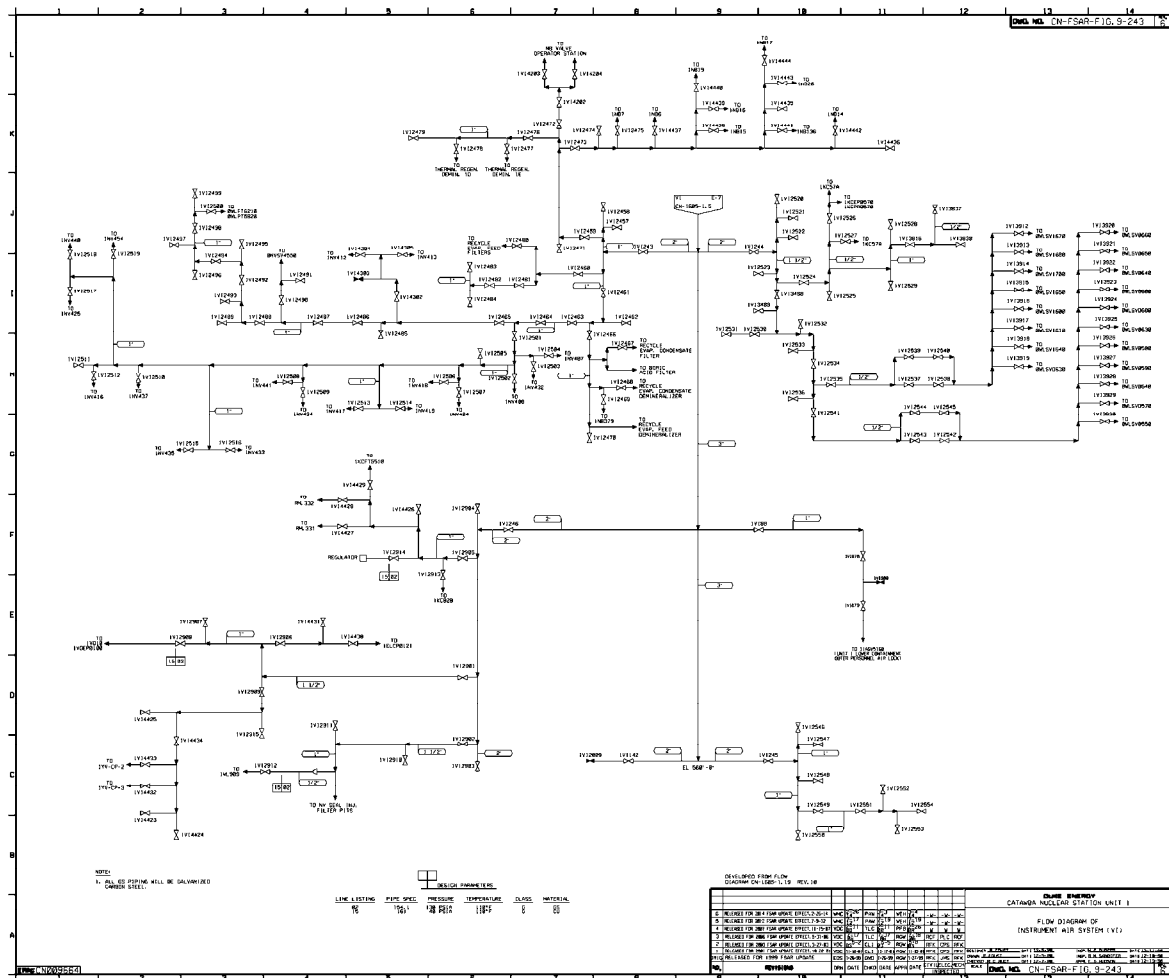




Figure 9-244. Instrument Air System

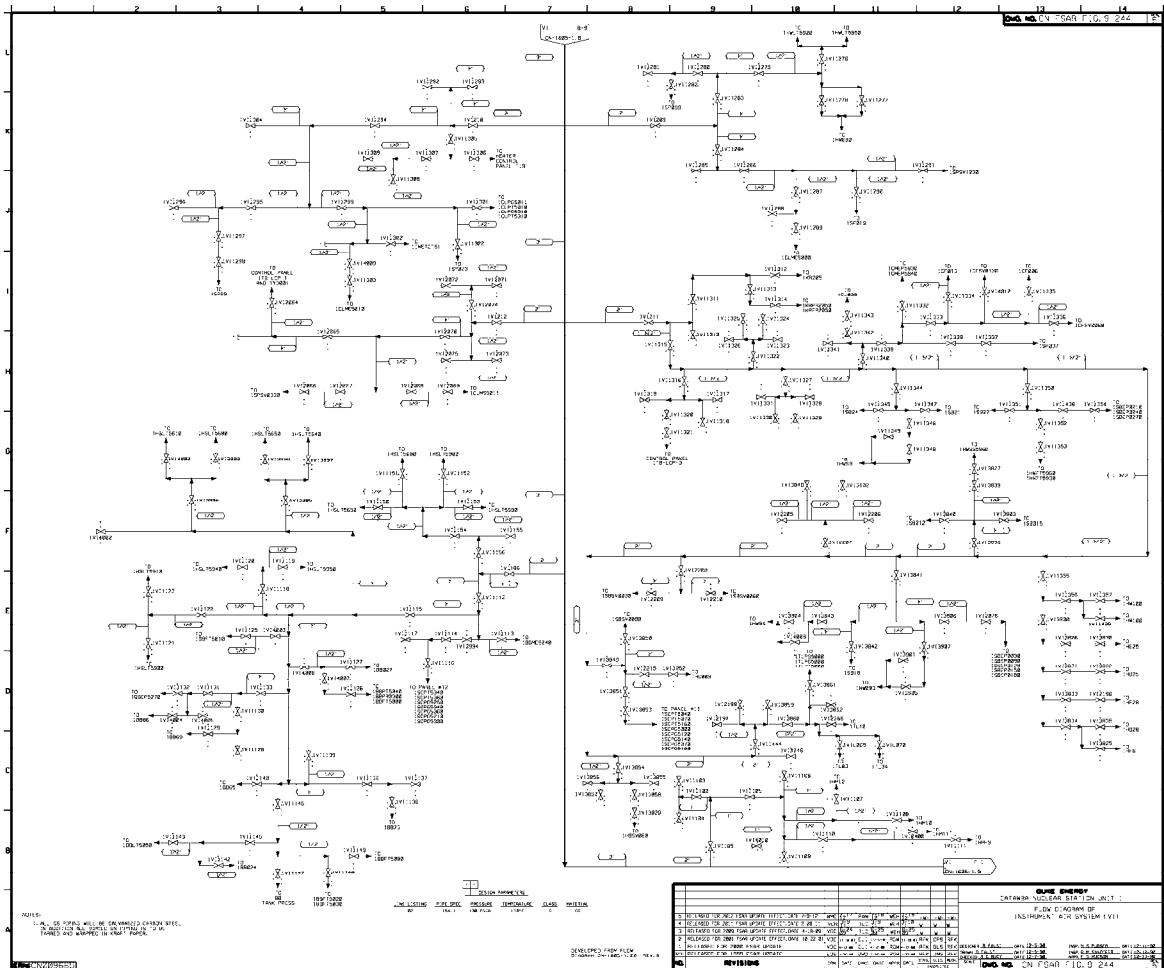


Figure 9-245. Instrument Air System

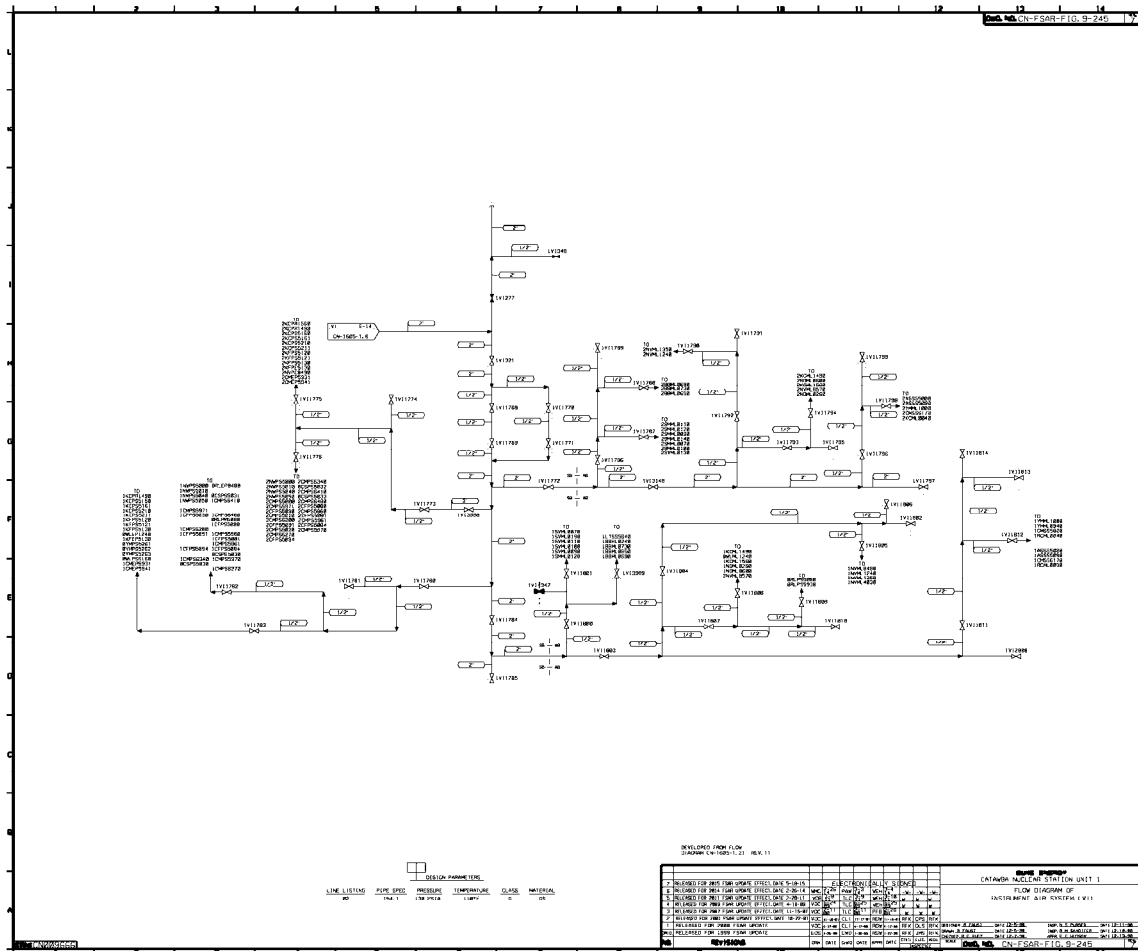


Figure 9-246. Instrument Air System

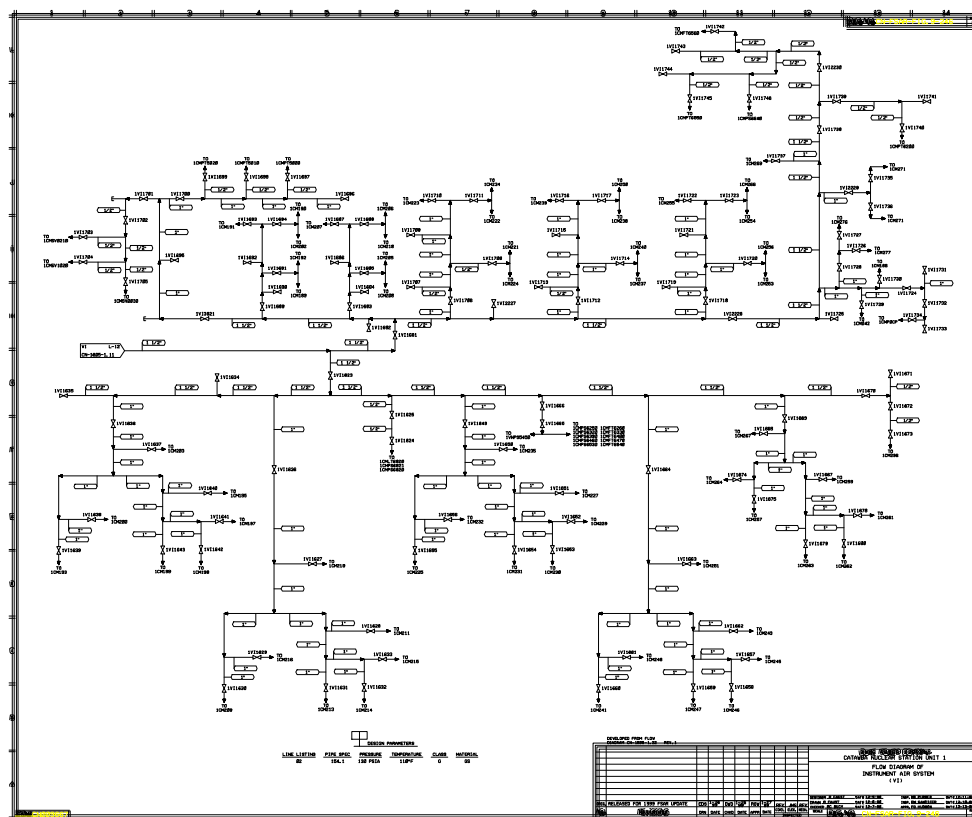
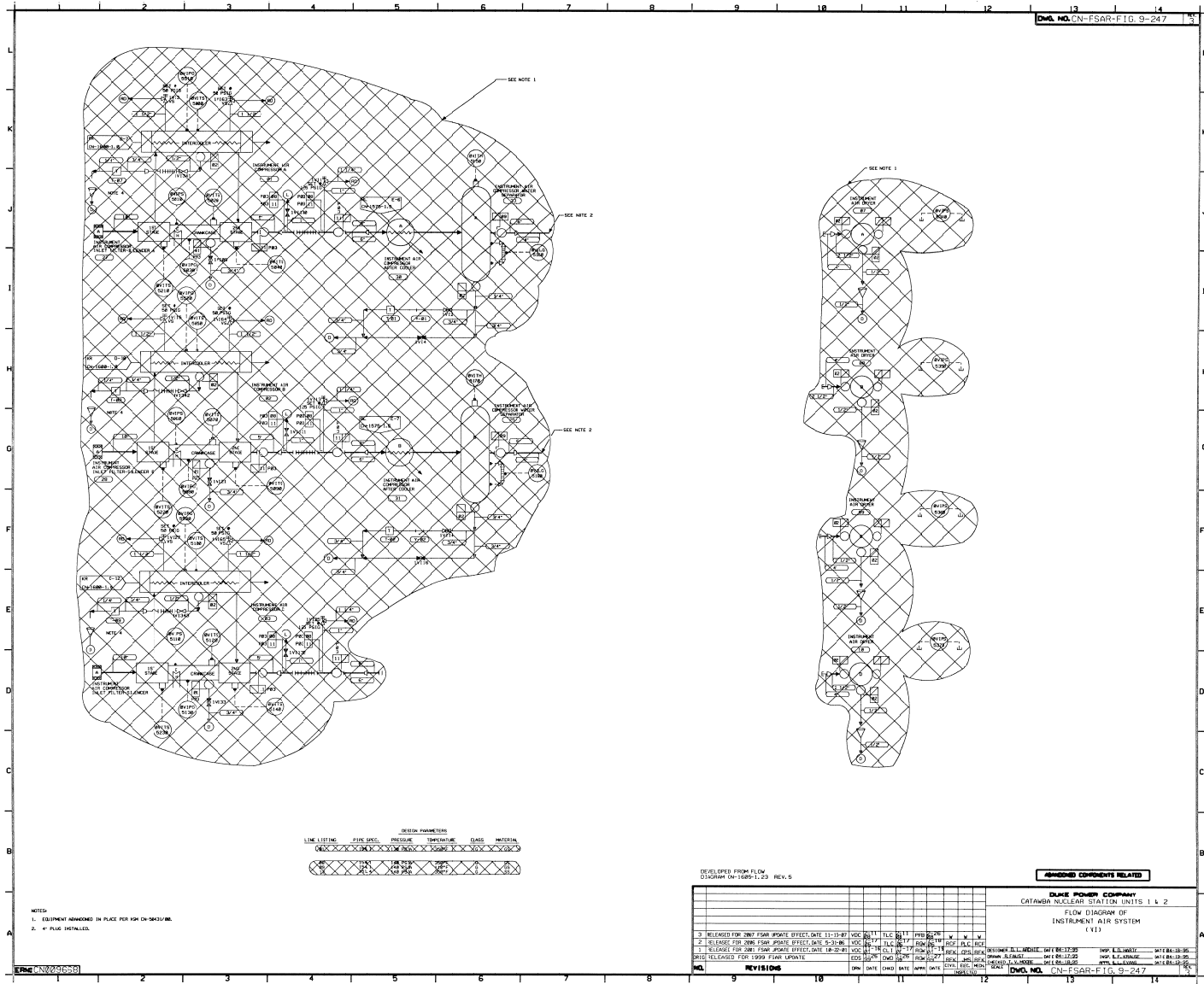
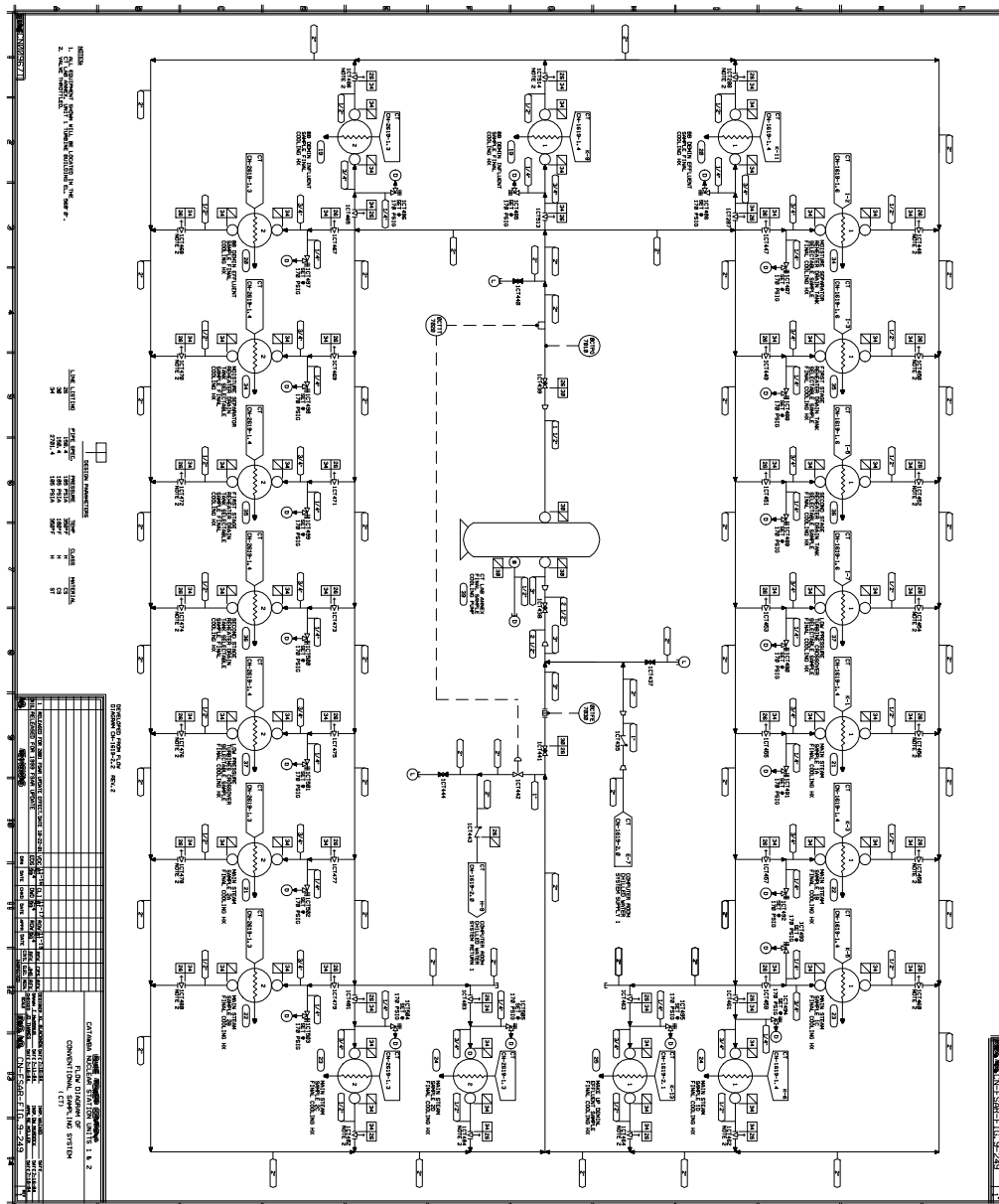


Figure 9-247. Instrument Air System



[illegible]

Figure 9-249. Auxiliary Building Ventilation System



[illegible]

Figure 9-251. Station Air System

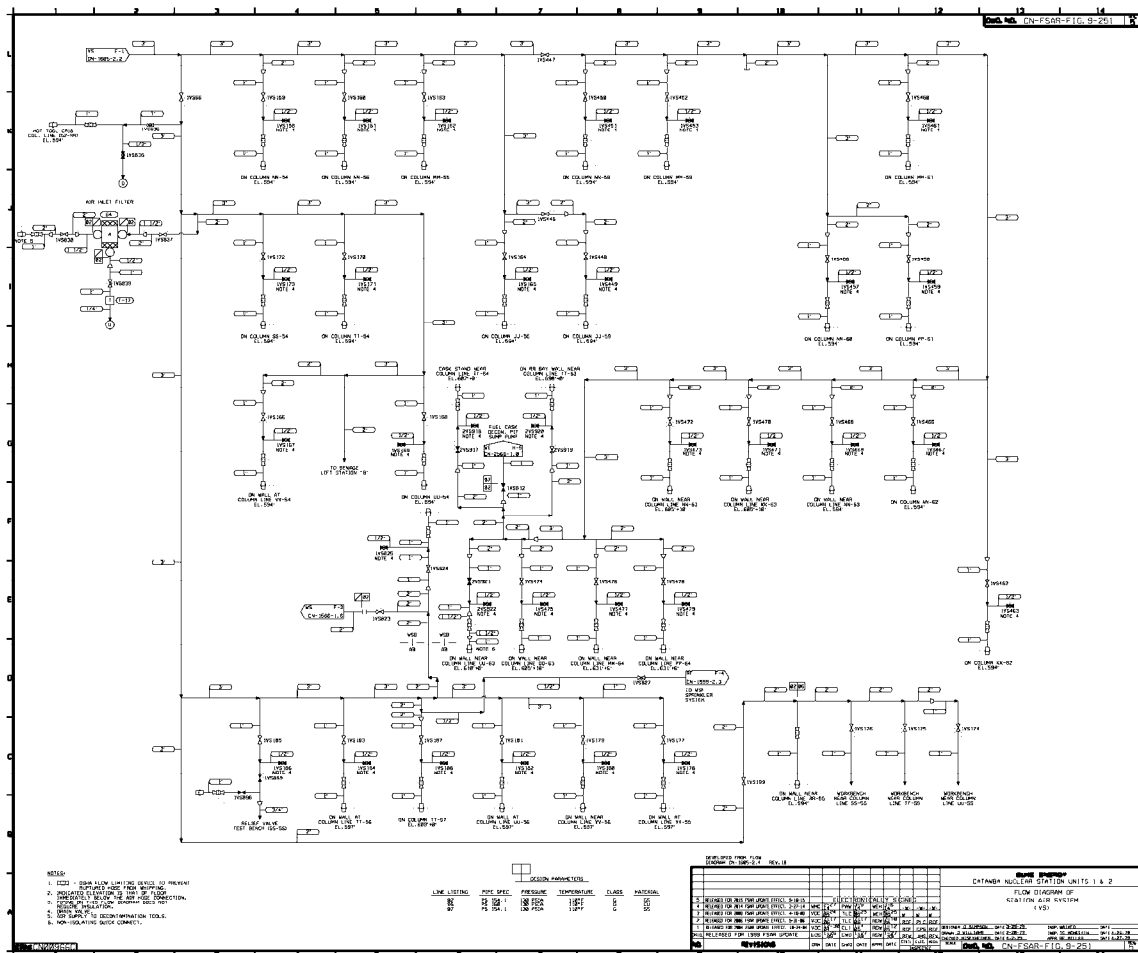




Figure 9-252. Station Air System

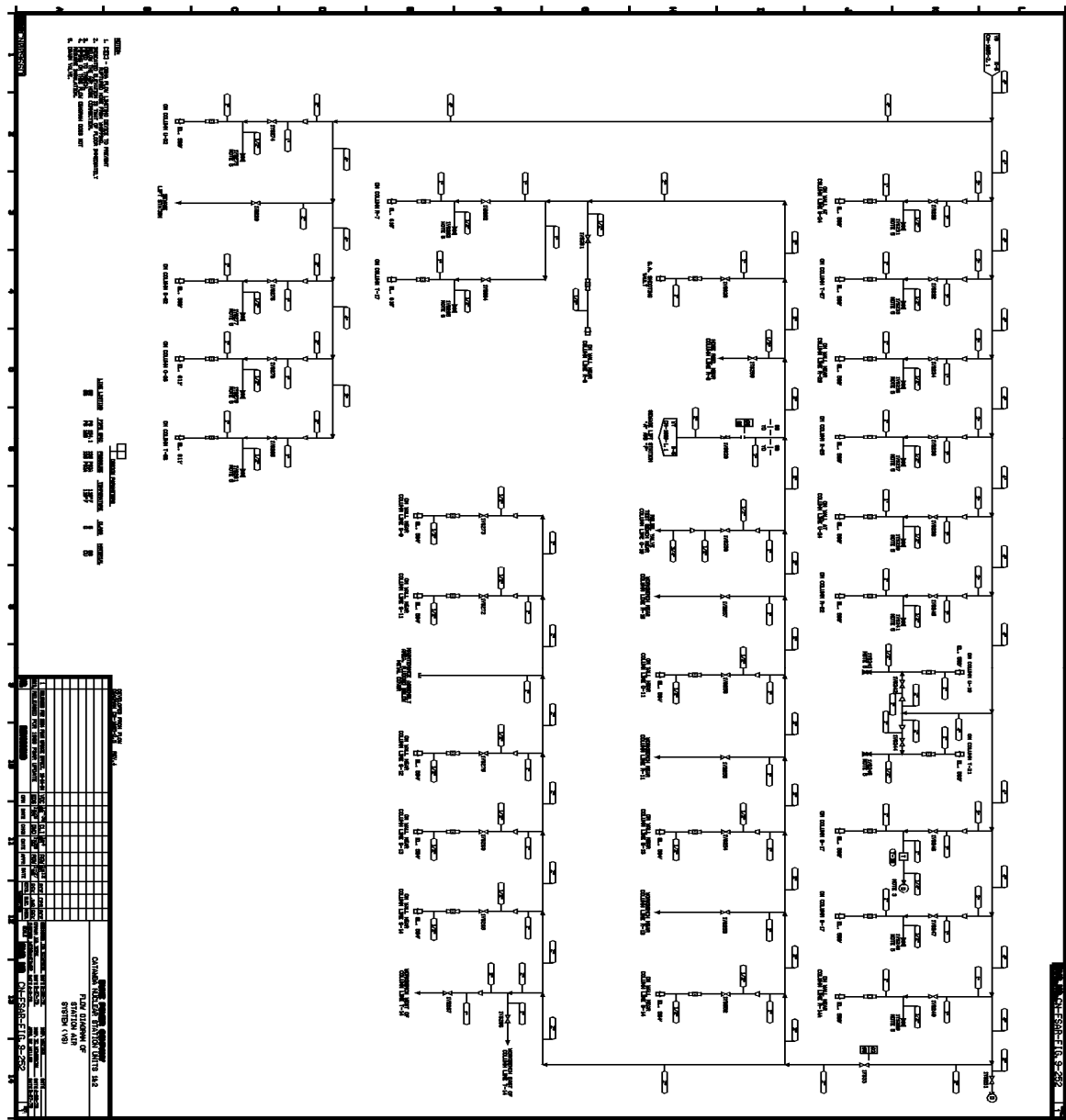
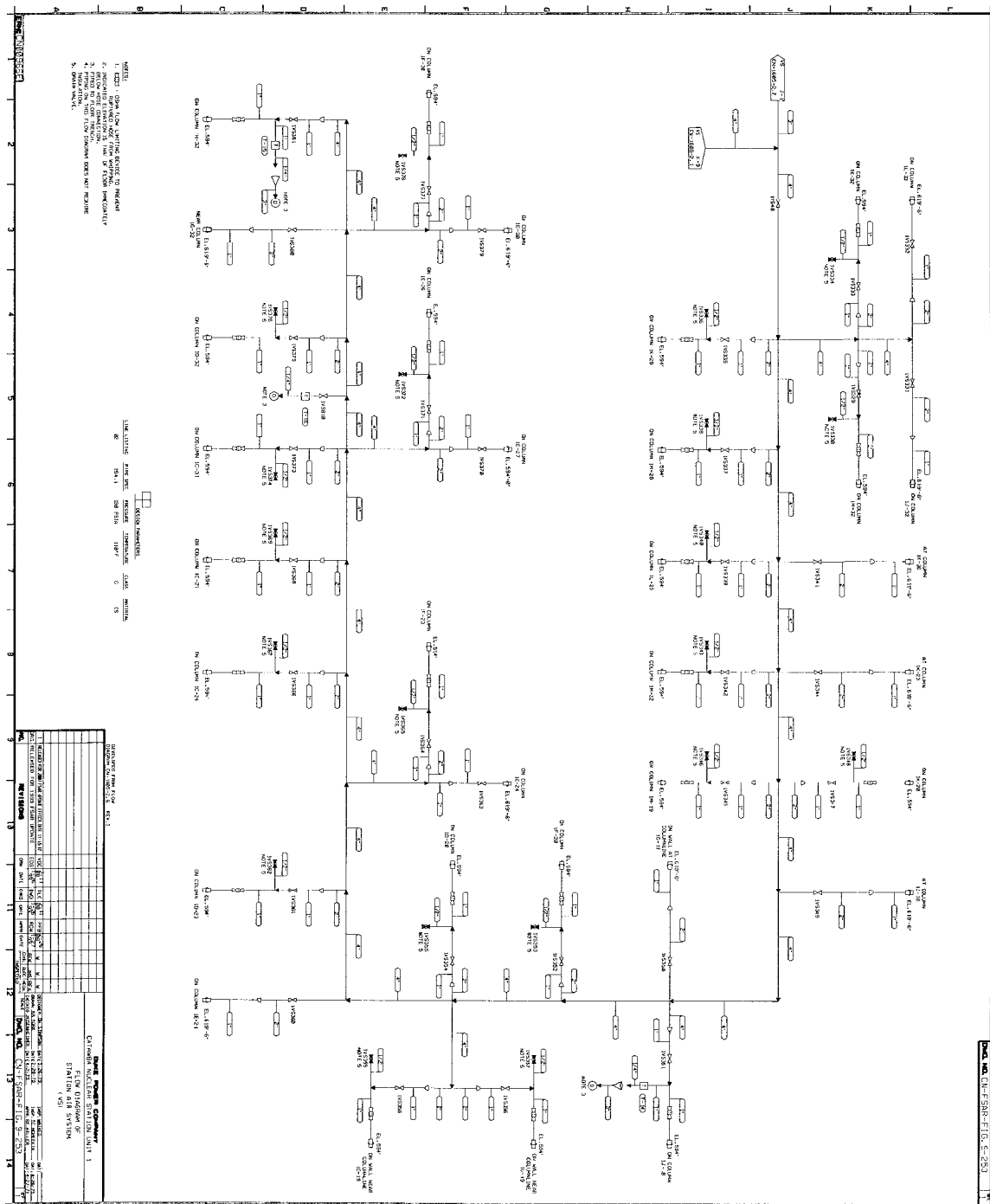


Figure 9-253. Station Air System



[illegible]

(24 APR 2006)

1 2 3 4 5 6 7 8 9 10 11 12
Doc: NUCN-FSAR-F10, 9-265

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

**UNIT 1 TURBINE**  
AVR BUILDING  
619+6 ELEVATION

**UNIT 2 TURBINE**  
AVR BUILDING  
619+6 ELEVATION

**LEGEND**

SYMBOL	DESCRIPTION
(Arrow pointing right)	Flow Direction
(Circle with 'P')	Pressure
(Circle with 'T')	Temperature
(Circle with 'V')	Valve
(Circle with 'S')	Switch
(Circle with 'M')	Motor
(Circle with 'L')	Light
(Circle with 'A')	Alarm
(Circle with 'B')	Bell
(Circle with 'C')	Control
(Circle with 'D')	Display
(Circle with 'E')	Encoder
(Circle with 'F')	Filter
(Circle with 'G')	Generator
(Circle with 'H')	Heater
(Circle with 'I')	Inverter
(Circle with 'J')	Junction
(Circle with 'K')	Key
(Circle with 'L')	Lock
(Circle with 'M')	Master
(Circle with 'N')	Network
(Circle with 'O')	Output
(Circle with 'P')	Power
(Circle with 'Q')	Quality
(Circle with 'R')	Rate
(Circle with 'S')	Signal
(Circle with 'T')	Time
(Circle with 'U')	Unit
(Circle with 'V')	Value
(Circle with 'W')	Warning
(Circle with 'X')	Warning
(Circle with 'Y')	Warning
(Circle with 'Z')	Warning

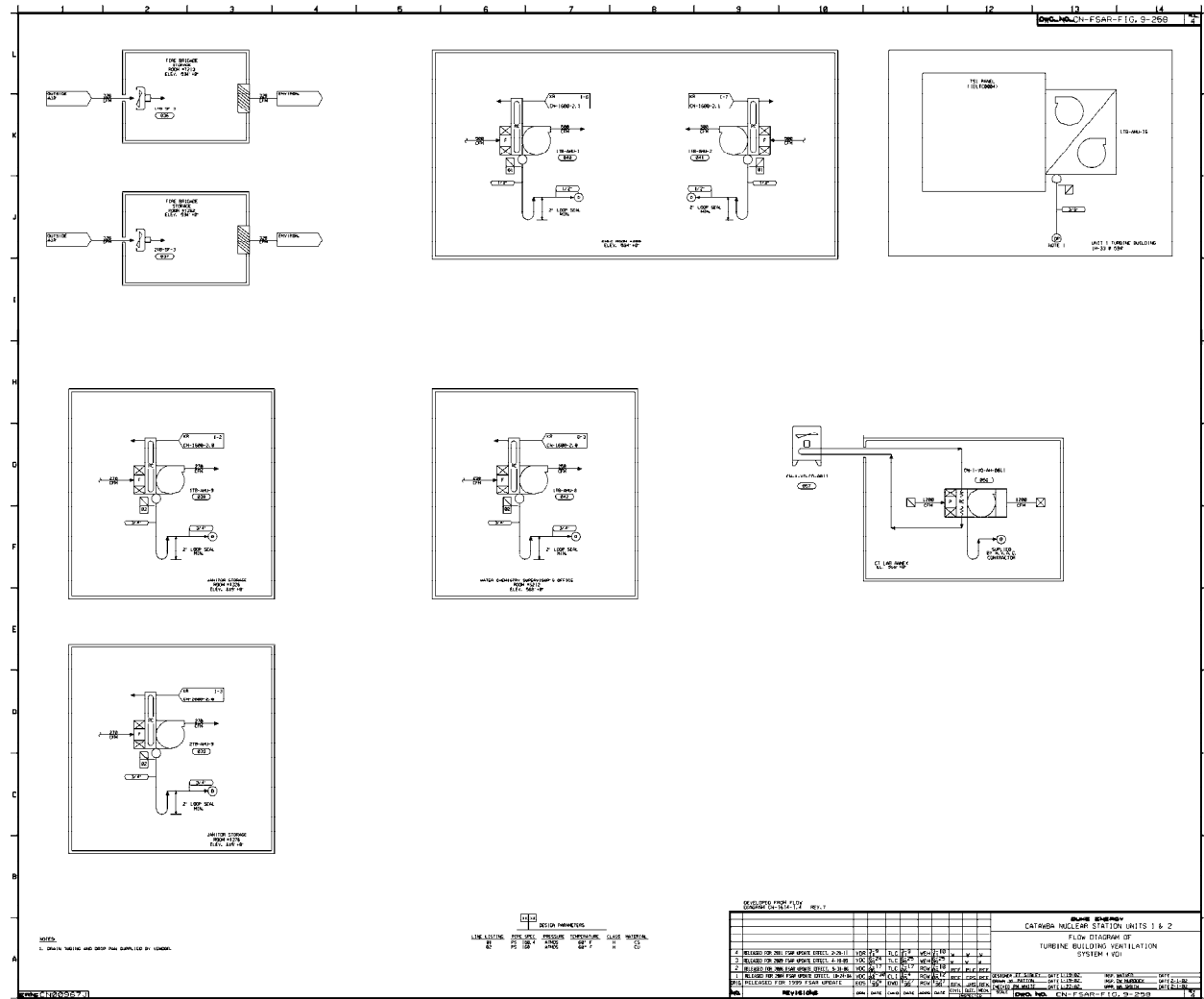
**REVISION HISTORY**

NO.	DATE	DESCRIPTION
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2	10/1/80	ISSUED FOR CONSTRUCTION
3	10/1/80	ISSUED FOR CONSTRUCTION
4	10/1/80	ISSUED FOR CONSTRUCTION
5	10/1/80	ISSUED FOR CONSTRUCTION
6	10/1/80	ISSUED FOR CONSTRUCTION
7	10/1/80	ISSUED FOR CONSTRUCTION
8	10/1/80	ISSUED FOR CONSTRUCTION
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75	10/1/80	ISSUED FOR CONSTRUCTION
76	10/1/80	ISSUED FOR CONSTRUCTION
77	10/1/80	ISSUED FOR CONSTRUCTION
78	10/1/80	ISS

[illegible]

(24 OCT 2004)

Figure 9-258. Turbine Building Ventilation System



**Figure 9-259. Turbine Building Ventilation System**

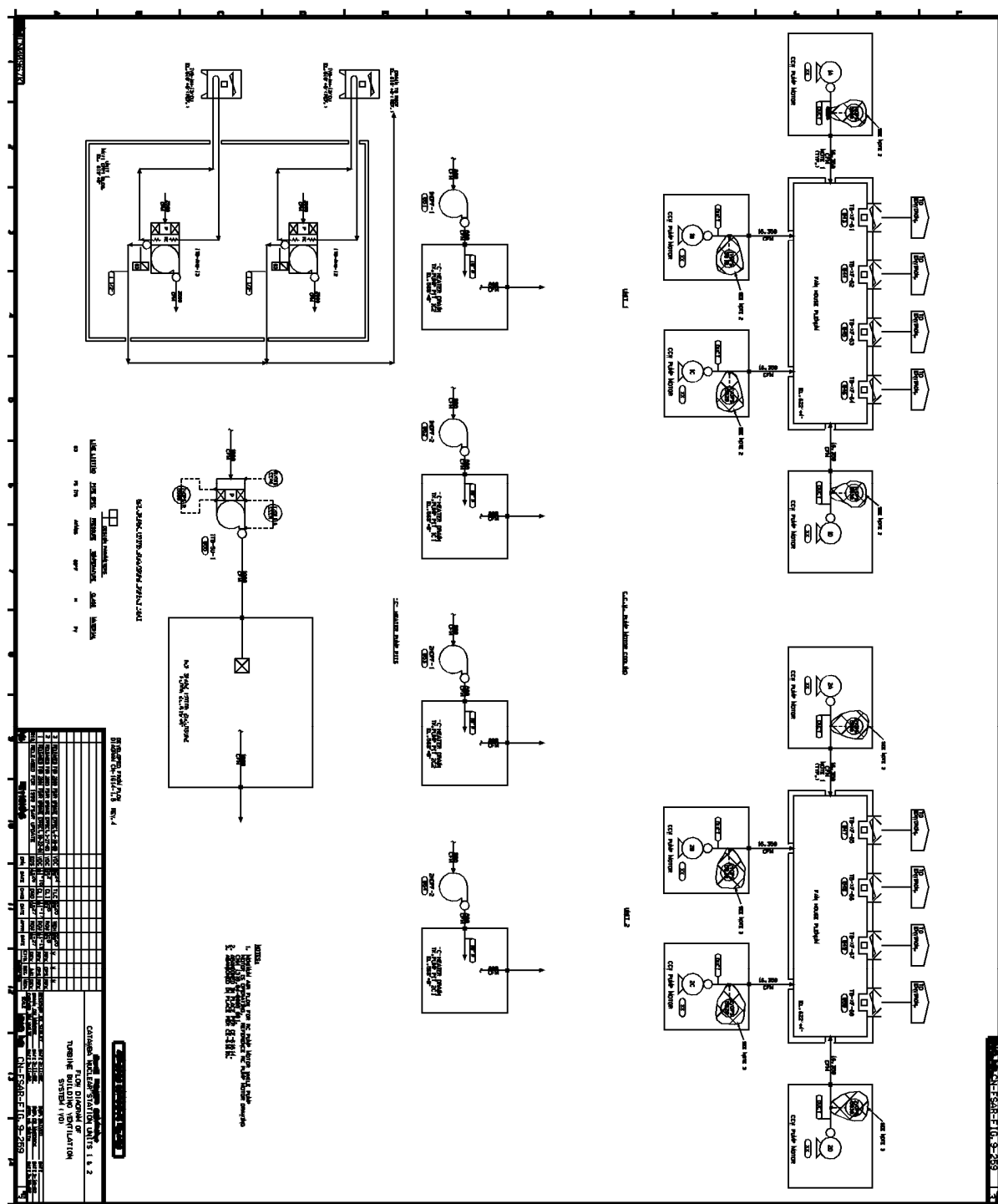
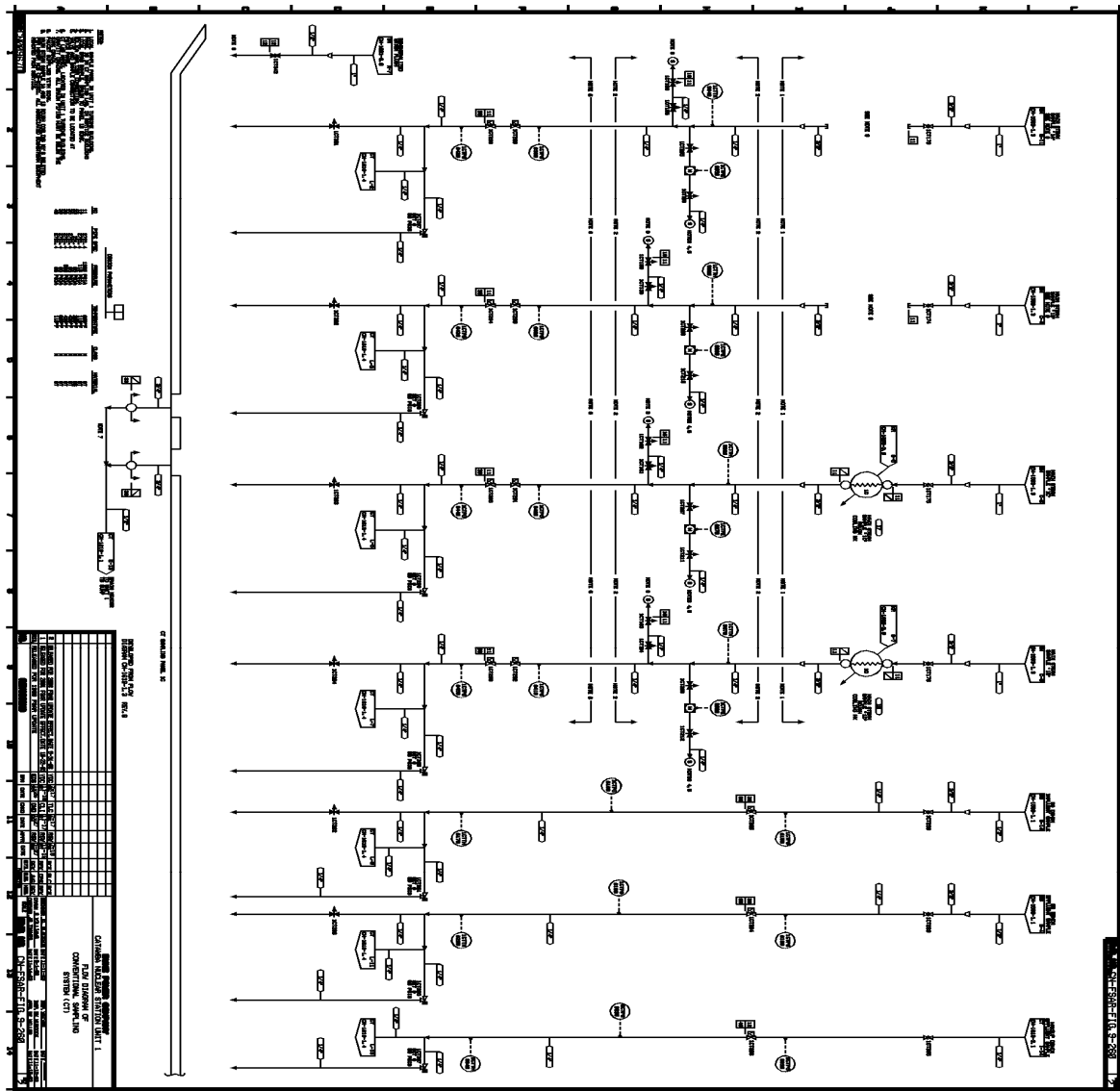


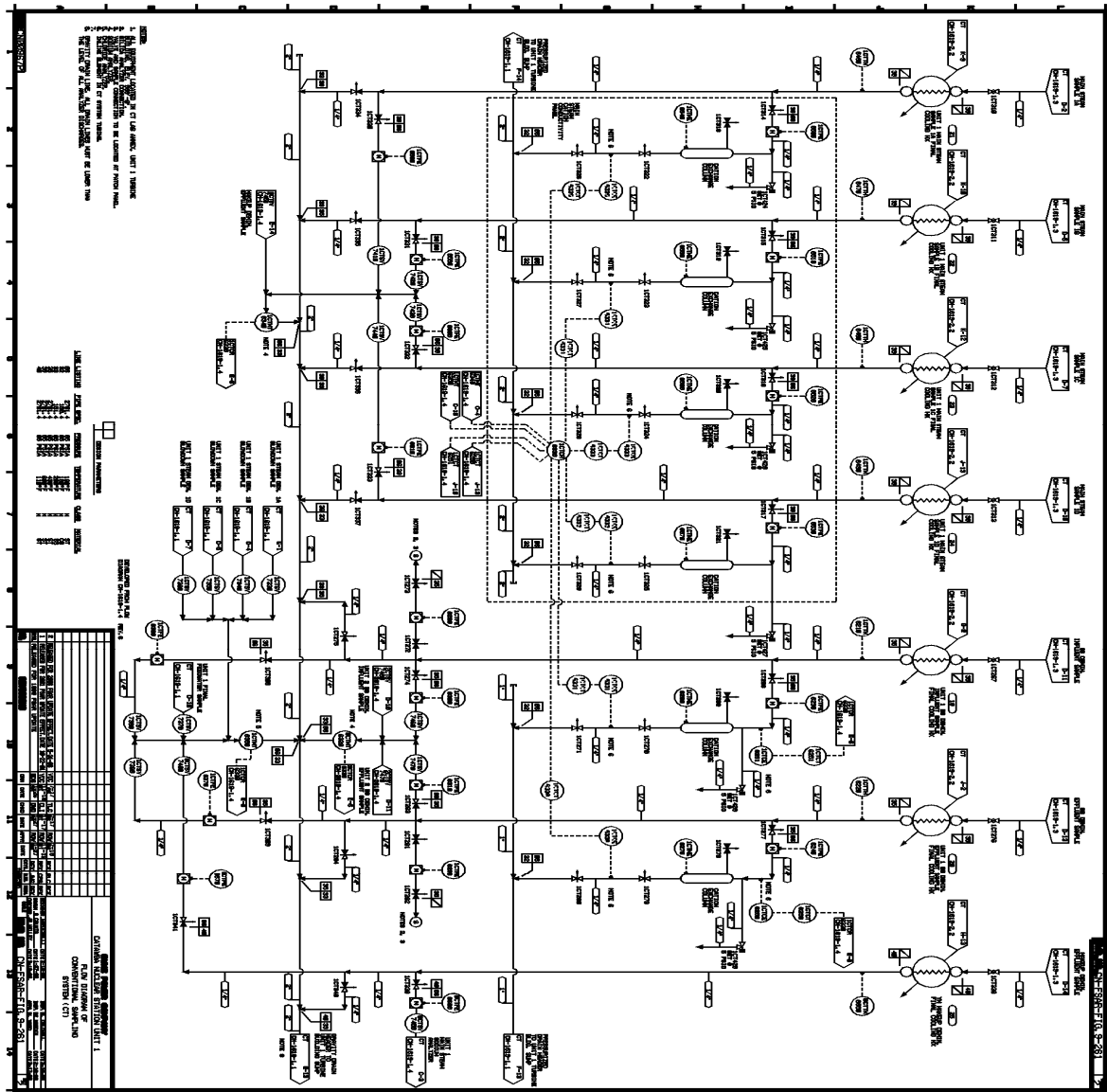


Figure 9-260. Conventional Sampling System



(24 APR 2006)

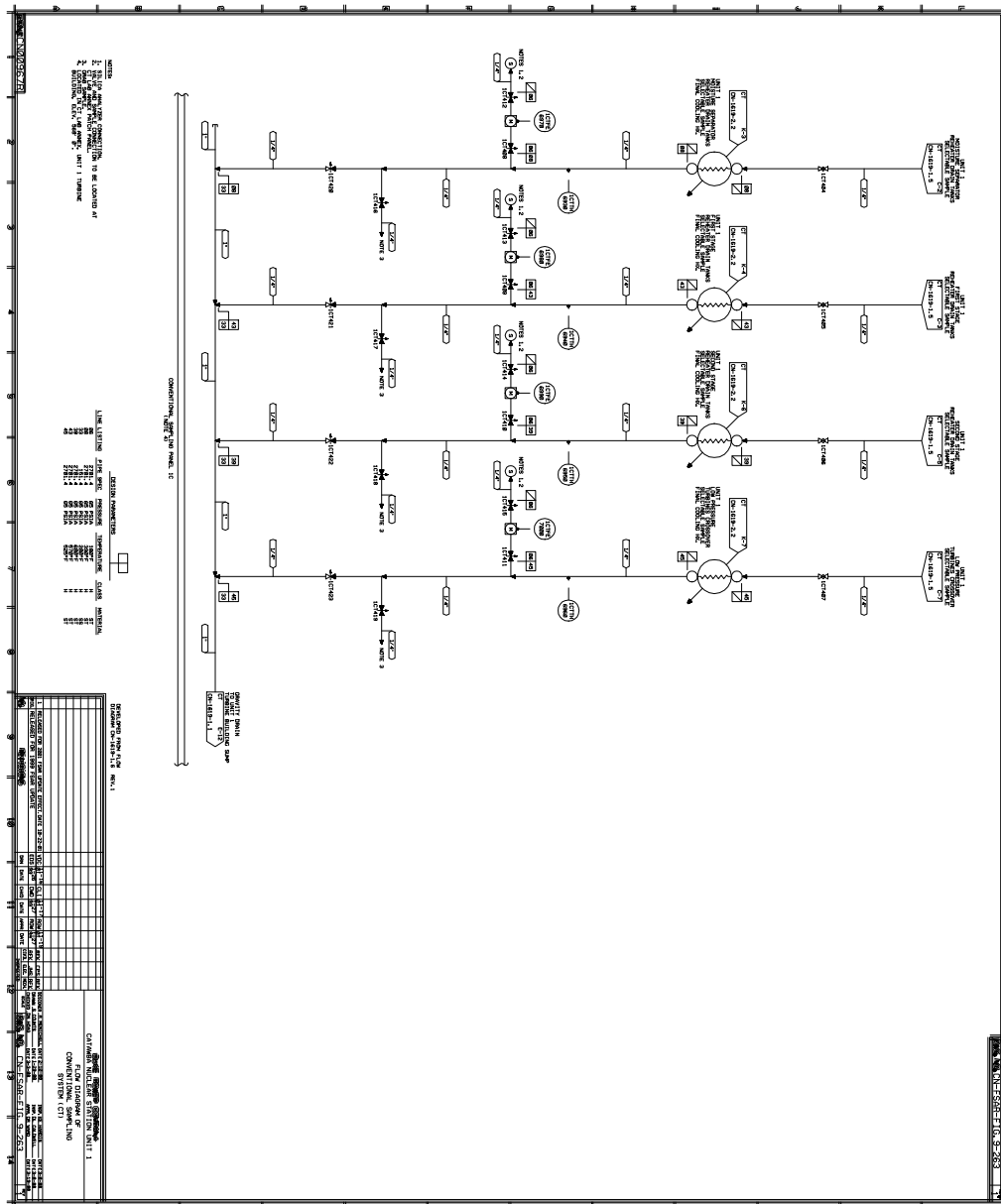
Figure 9-261. Conventional Sampling System



(24 APR 2006)

[illegible]

Figure 9-263. Conventional Sampling System



**STEAM TURBINE GENERATOR SET**

**SECTION 1: TURBINE GENERATOR SET**

**SECTION 2: TURBINE GENERATOR SET**

**SECTION 3: TURBINE GENERATOR SET**

**SECTION 4: TURBINE GENERATOR SET**

**SECTION 5: TURBINE GENERATOR SET**

**SECTION 6: TURBINE GENERATOR SET**

**SECTION 7: TURBINE GENERATOR SET**

**SECTION 8: TURBINE GENERATOR SET**

**SECTION 9: TURBINE GENERATOR SET**

**SECTION 10: TURBINE GENERATOR SET**

**TABLE 1: SPECIFICATIONS**

ITEM	DESCRIPTION	UNIT	VALUE
1	STEAM TURBINE GENERATOR SET	1	1
2	STEAM TURBINE GENERATOR SET	1	1
3	STEAM TURBINE GENERATOR SET	1	1
4	STEAM TURBINE GENERATOR SET	1	1
5	STEAM TURBINE GENERATOR SET	1	1
6	STEAM TURBINE GENERATOR SET	1	1
7	STEAM TURBINE GENERATOR SET	1	1
8	STEAM TURBINE GENERATOR SET	1	1
9	STEAM TURBINE GENERATOR SET	1	1
10	STEAM TURBINE GENERATOR SET	1	1

**LEGEND**

1. STEAM TURBINE GENERATOR SET

2. STEAM TURBINE GENERATOR SET

3. STEAM TURBINE GENERATOR SET

4. STEAM TURBINE GENERATOR SET

5. STEAM TURBINE GENERATOR SET

6. STEAM TURBINE GENERATOR SET

7. STEAM TURBINE GENERATOR SET

8. STEAM TURBINE GENERATOR SET

9. STEAM TURBINE GENERATOR SET

10. STEAM TURBINE GENERATOR SET

Figure 9-265. Boron Recycle System

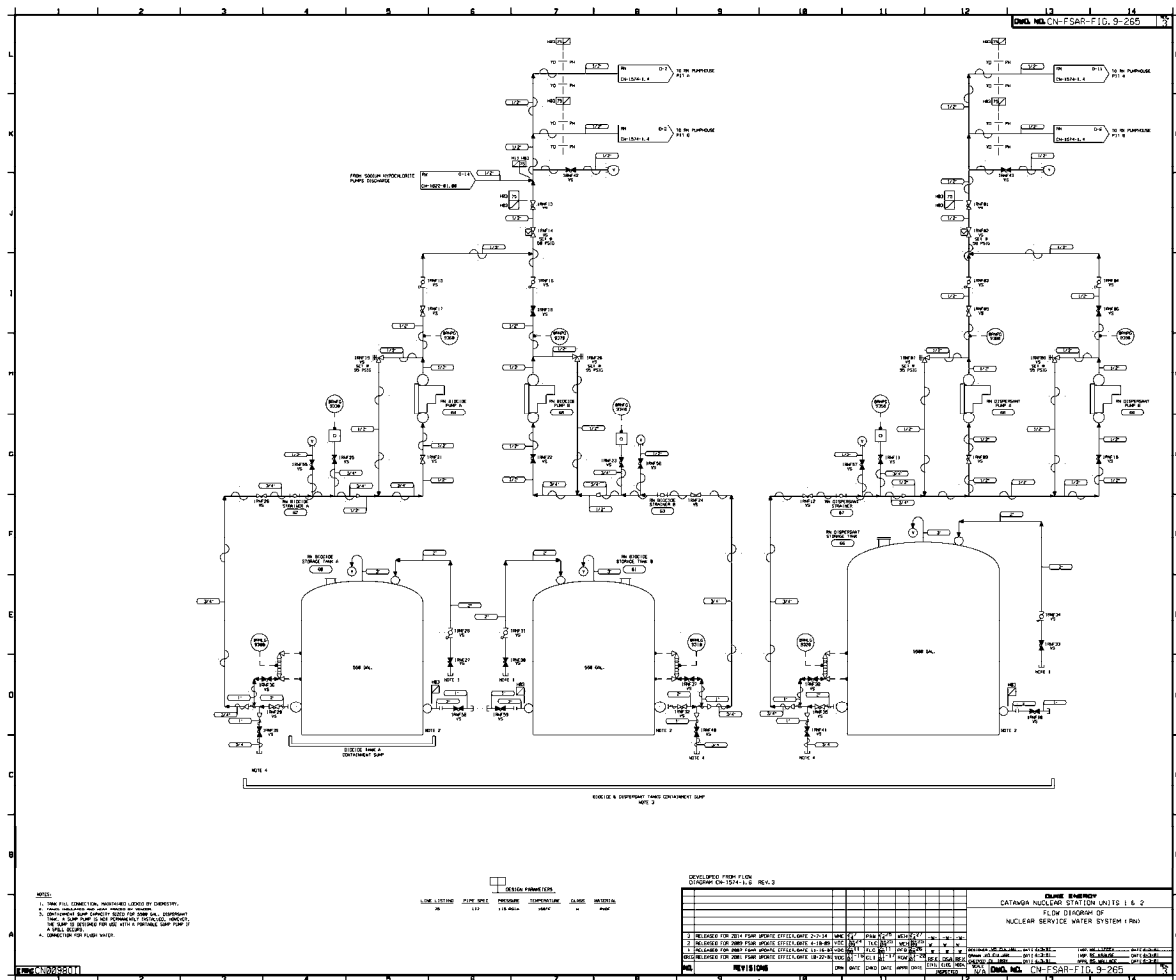
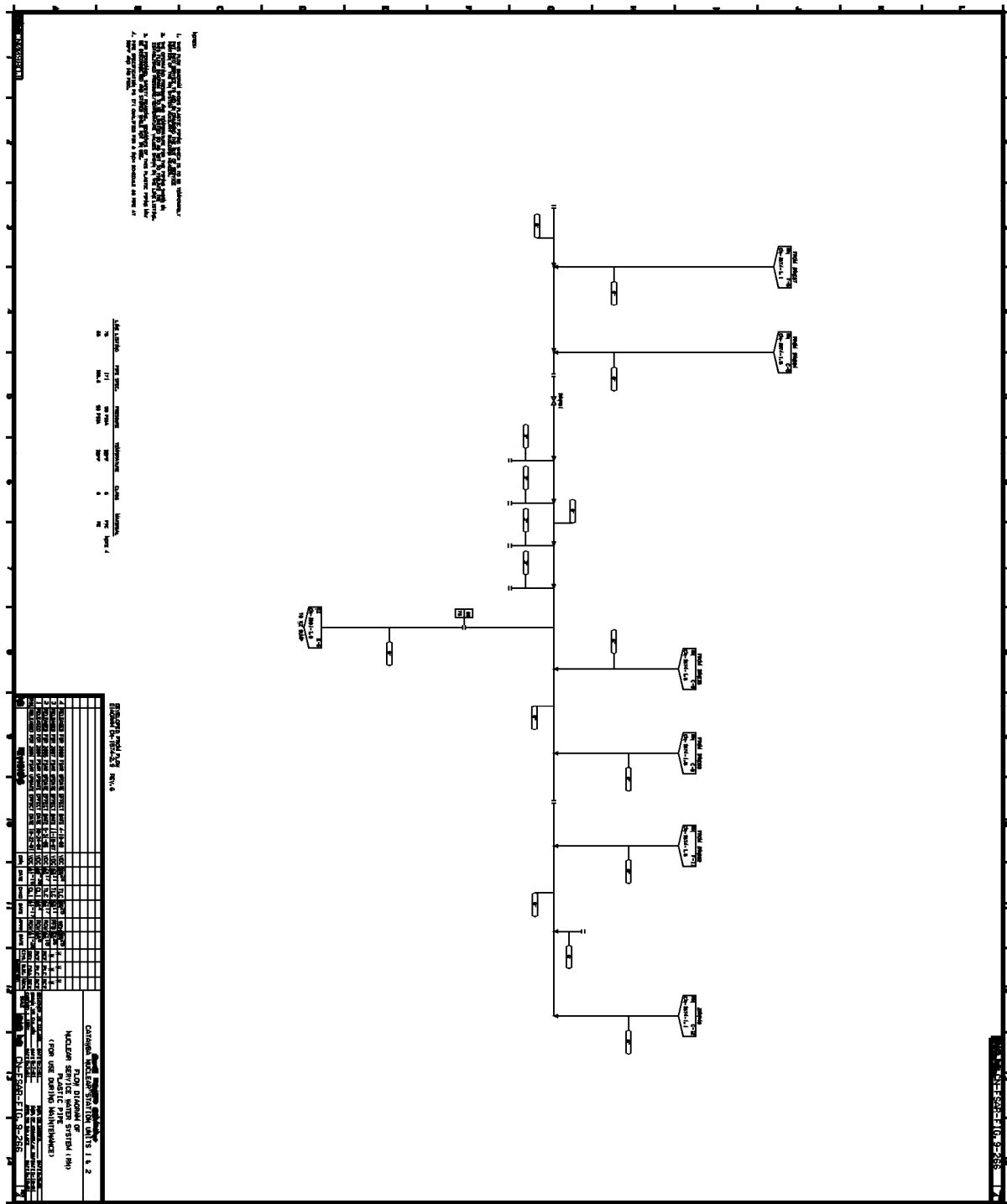


Figure 9-266. Nuclear Service Water System Plastic Pipe



**Figure 9-267. Reserved for Future Use**



Process flow diagram of the 2nd Station Unit 2. The diagram shows a complex network of piping, tanks, and pumps. Key components include:

- Tanks:** T-101, T-102, T-103, T-104, T-105, T-106, T-107, T-108, T-109, T-110, T-111, T-112, T-113, T-114, T-115, T-116, T-117, T-118, T-119, T-120, T-121, T-122, T-123, T-124, T-125, T-126, T-127, T-128, T-129, T-130, T-131, T-132, T-133, T-134, T-135, T-136, T-137, T-138, T-139, T-140, T-141, T-142, T-143, T-144, T-145, T-146, T-147, T-148, T-149, T-150, T-151, T-152, T-153, T-154, T-155, T-156, T-157, T-158, T-159, T-160, T-161, T-162, T-163, T-164, T-165, T-166, T-167, T-168, T-169, T-170, T-171, T-172, T-173, T-174, T-175, T-176, T-177, T-178, T-179, T-180, T-181, T-182, T-183, T-184, T-185, T-186, T-187, T-188, T-189, T-190, T-191, T-192, T-193, T-194, T-195, T-196, T-197, T-198, T-199, T-200, T-201, T-202, T-203, T-204, T-205, T-206, T-207, T-208, T-209, T-210, T-211, T-212, T-213, T-214, T-215, T-216, T-217, T-218, T-219, T-220, T-221, T-222, T-223, T-224, T-225, T-226, T-227, T-228, T-229, T-230, T-231, T-232, T-233, T-234, T-235, T-236, T-237, T-238, T-239, T-240, T-241, T-242, T-243, T-244, T-245, T-246, T-247, T-248, T-249, T-250, T-251, T-252, T-253, T-254, T-255, T-256, T-257, T-258, T-259, T-260, T-261, T-262, T-263, T-264, T-265, T-266, T-267, T-268, T-269, T-270, T-271, T-272, T-273, T-274, T-275, T-276, T-277, T-278, T-279, T-280, T-281, T-282, T-283, T-284, T-285, T-286, T-287, T-288, T-289, T-290, T-291, T-292, T-293, T-294, T-295, T-296, T-297, T-298, T-299, T-300, T-301, T-302, T-303, T-304, T-305, T-306, T-307, T-308, T-309, T-310, T-311, T-312, T-313, T-314, T-315, T-316, T-317, T-318, T-319, T-320, T-321, T-322, T-323, T-324, T-325, T-326, T-327, T-328, T-329, T-330, T-331, T-332, T-333, T-334, T-335, T-336, T-337, T-338, T-339, T-340, T-341, T-342, T-343, T-344, T-345, T-346, T-347, T-348, T-349, T-350, T-351, T-352, T-353, T-354, T-355, T-356, T-357, T-358, T-359, T-360, T-361, T-362, T-363, T-364, T-365, T-366, T-367, T-368, T-369, T-370, T-371, T-372, T-373, T-374, T-375, T-376, T-377, T-378, T-379, T-380, T-381, T-382, T-383, T-384, T-385, T-386, T-387, T-388, T-389, T-390, T-391, T-392, T-393, T-394, T-395, T-396, T-397, T-398, T-399, T-400, T-401, T-402, T-403, T-404, T-405, T-406, T-407, T-408, T-409, T-410, T-411, T-412, T-413, T-414, T-415, T-416, T-417, T-418, T-419, T-420, T-421, T-422, T-423, T-424, T-425, T-426, T-427, T-428, T-429, T-430, T-431, T-432, T-433, T-434, T-435, T-436, T-437, T-438, T-439, T-440, T-441, T-442, T-443, T-444, T-445, T-446, T-447, T-448, T-449, T-450, T-451, T-452, T-453, T-454, T-455, T-456, T-457, T-458, T-459, T-460, T-461, T-462, T-463, T-464, T-465, T-466, T-467, T-468, T-469, T-470, T-471, T-472, T-473, T-474, T-475, T-476, T-477, T-478, T-479, T-480, T-481, T-482, T-483, T-484, T-485, T-486, T-487, T-488, T-489, T-490, T-491, T-492, T-493, T-494, T-495, T-496, T-497, T-498, T-499, T-500, T-501, T-502, T-503, T-504, T-505, T-506, T-507, T-508, T-509, T-510, T-511, T-512, T-513, T-514, T-515, T-516, T-517, T-518, T-519, T-520, T-521, T-522, T-523, T-524, T-525, T-526, T-527, T-528, T-529, T-530, T-531, T-532, T-533, T-534, T-535, T-536, T-537, T-538, T-539, T-540, T-541, T-542, T-543, T-544, T-545, T-546, T-547, T-548, T-549, T-550, T-551, T-552, T-553, T-554, T-555, T-556, T-557, T-558, T-559, T-560, T-561, T-562, T-563, T-564, T-565, T-566, T-567, T-568, T-569, T-570, T-571, T-572, T-573, T-574, T-575, T-576, T-577, T-578, T-579, T-580, T-581, T-582, T-583, T-584, T-585, T-586, T-587, T-588, T-589, T-590, T-591, T-592, T-593, T-594, T-595, T-596, T-597, T-598, T-599, T-600, T-601, T-602, T-603, T-604, T-605, T-606, T-607, T-608, T-609, T-610, T-611, T-612, T-613, T-614, T-615, T-616, T-617, T-618, T-619, T-620, T-621, T-622, T-623, T-624, T-625, T-626, T-627, T-628, T-629, T-630, T-631, T-632, T-633, T-634, T-635, T-636, T-637, T-638, T-639, T-640, T-641, T-642, T-643, T-644, T-645, T-646, T-647, T-648, T-649, T-650, T-651, T-652, T-653, T-654, T-655, T-656, T-657, T-658, T-659, T-660, T-661, T-662, T-663, T-664, T-665, T-666, T-667, T-668, T-669, T-670, T-671, T-672, T-673, T-674, T-675, T-676, T-677, T-678, T-679, T-680, T-681, T-682, T-683, T-684, T-685, T-686, T-687, T-688, T-689, T-690, T-691, T-692, T-693, T-694, T-695, T-696, T-697, T-698, T-699, T-700, T-701, T-702, T-703, T-704, T-705, T-706, T-707, T-708, T-709, T-710, T-711, T-712, T-713, T-714, T-715, T-716, T-717, T-718, T-719, T-720, T-721, T-722, T-723, T-724, T-725, T-726, T-727, T-728, T-729, T-730, T-731, T-732, T-733, T-734, T-735, T-736, T-737, T-738, T-739, T-740, T-741, T-742, T-743, T-744, T-745, T-746, T-747, T-748, T-749, T-750, T-751, T-752, T-753, T-754, T-755, T-756, T-757, T-758, T-7

**SECTION 1**

**SECTION 2**

**REACTOR CORE**

**STEAM GENERATOR**

**CONDENSER**

**PUMP**

**VALVE**

**STORAGE TANK**

**LEGEND**

ITEM NO.	DESCRIPTION	ITEM NO.	DESCRIPTION
1	REACTOR CORE	10	CONDENSER
2	STEAM GENERATOR	11	PUMP
3	CONDENSER	12	VALVE
4	PUMP	13	STORAGE TANK
5	VALVE	14	PIPE
6	STORAGE TANK	15	FLANGE
7	PIPE	16	WELD
8	FLANGE	17	INSULATION
9	WELD	18	OTHER

Figure 9-270. Containment Chilled Water System (YV)

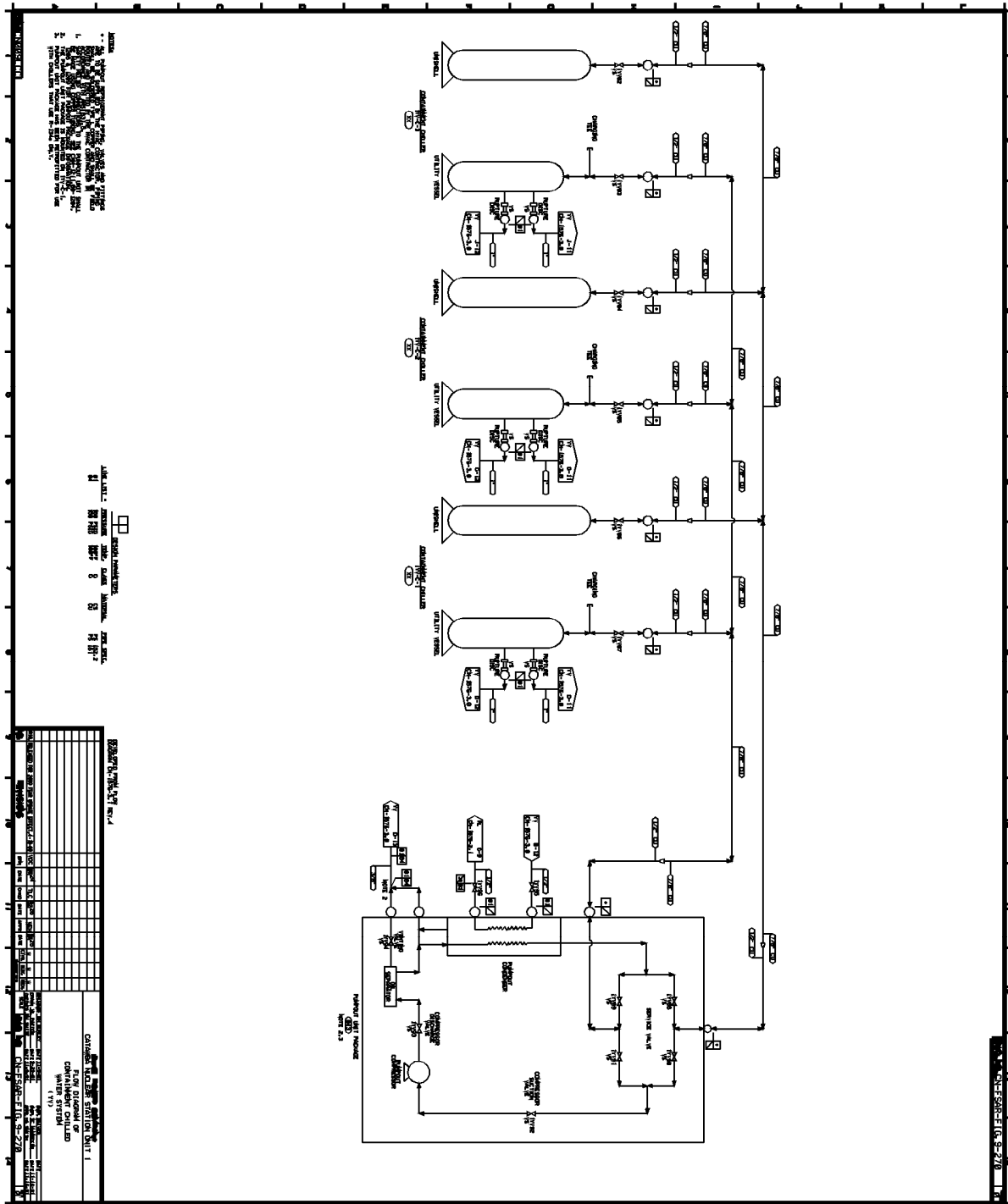


Figure 9-271. Station Air System (VS)

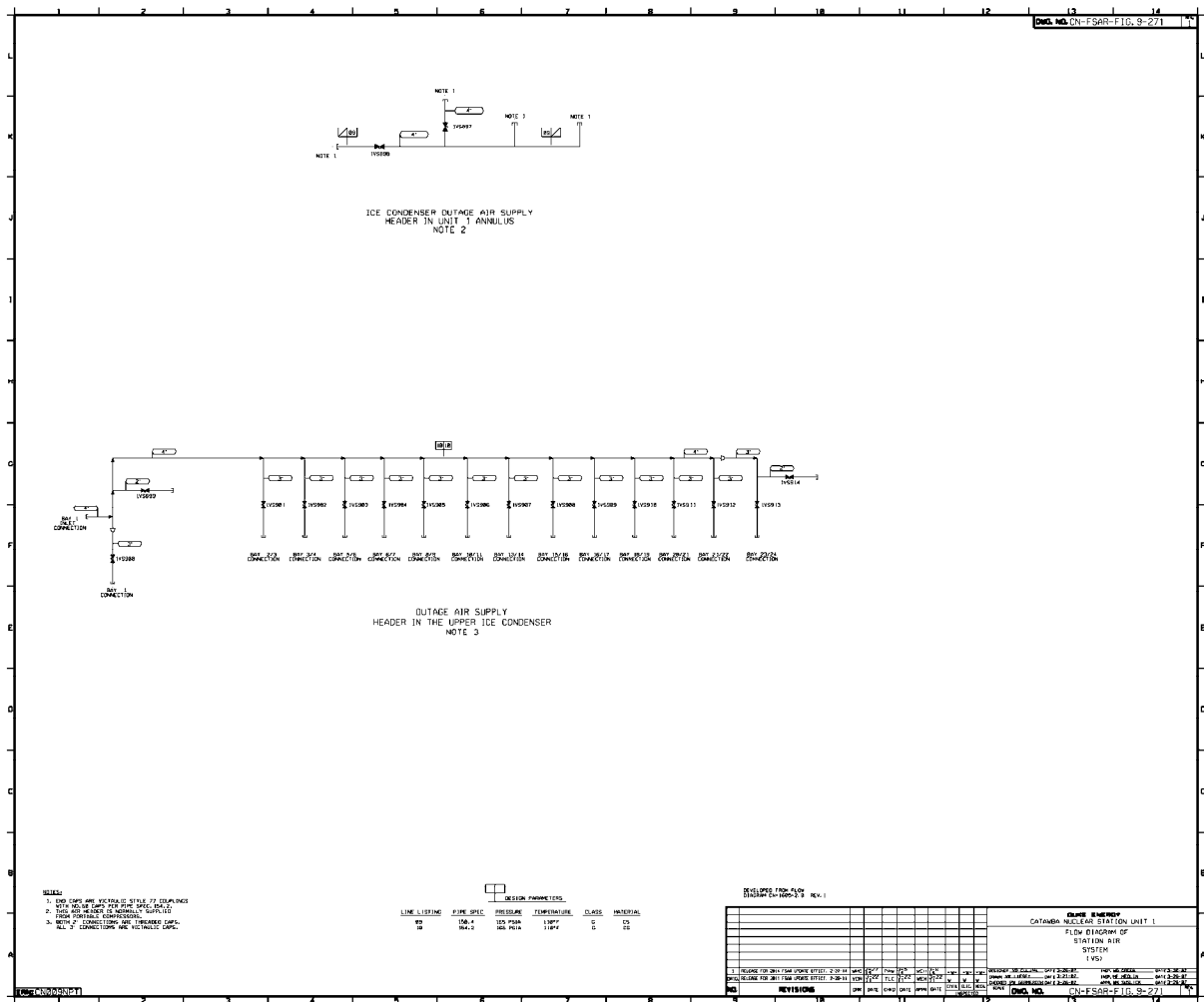


Figure 9-272. Diesel Gen. Engine Lube Oil System (LD)

