# Appendix 10B. Figures

**Figure 10-1. Heat Balance-Valves Wide Open**

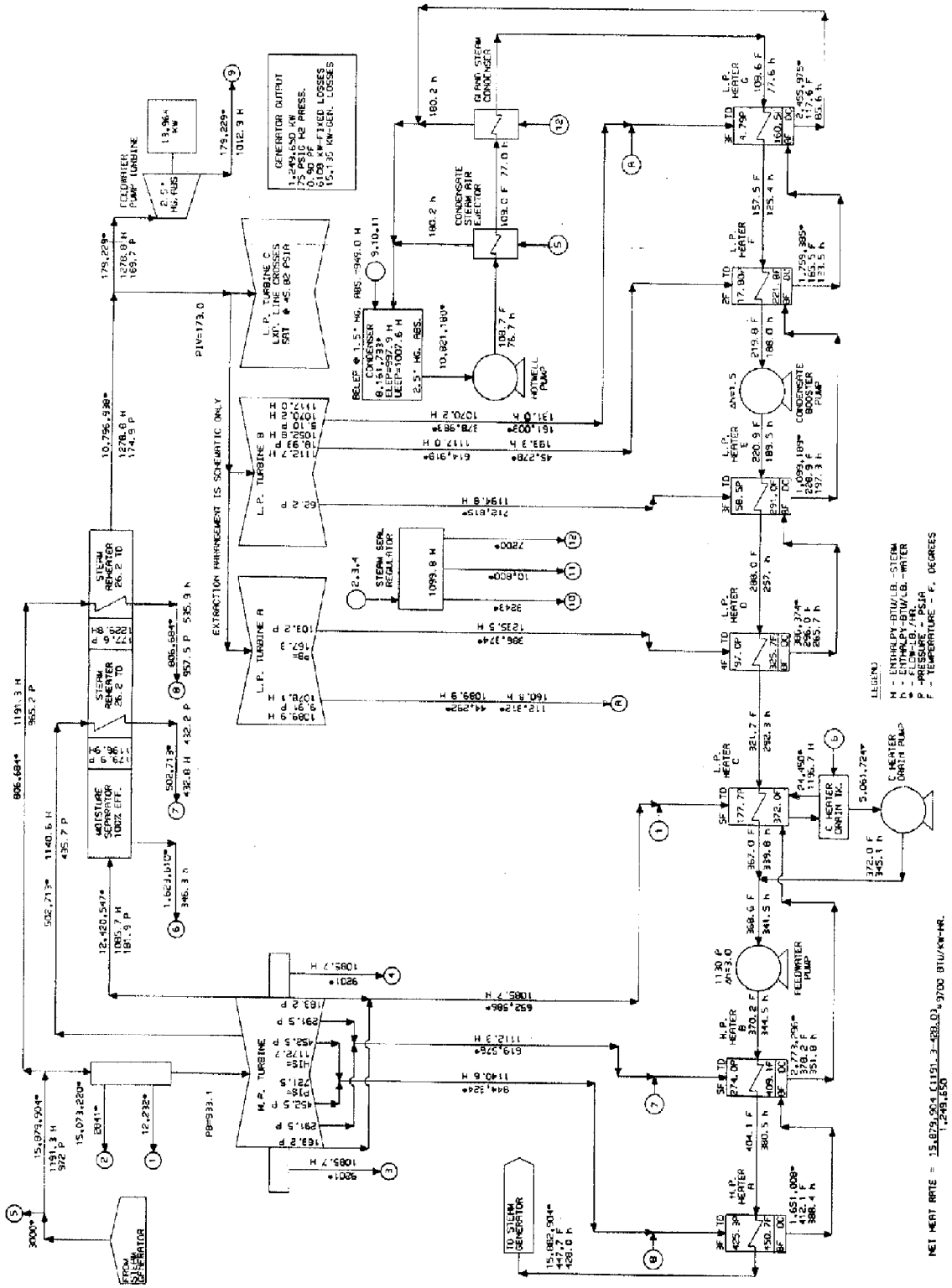
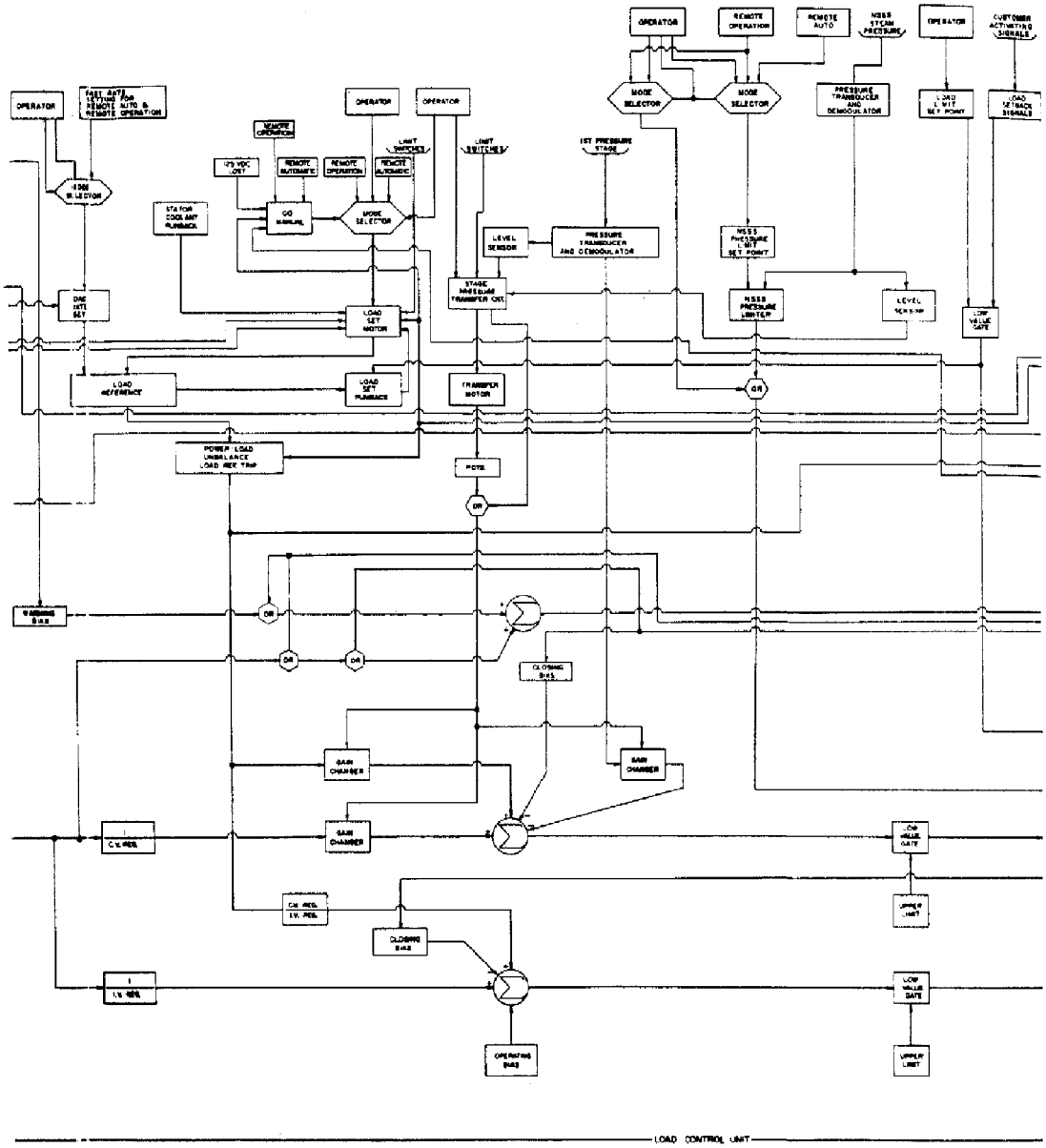
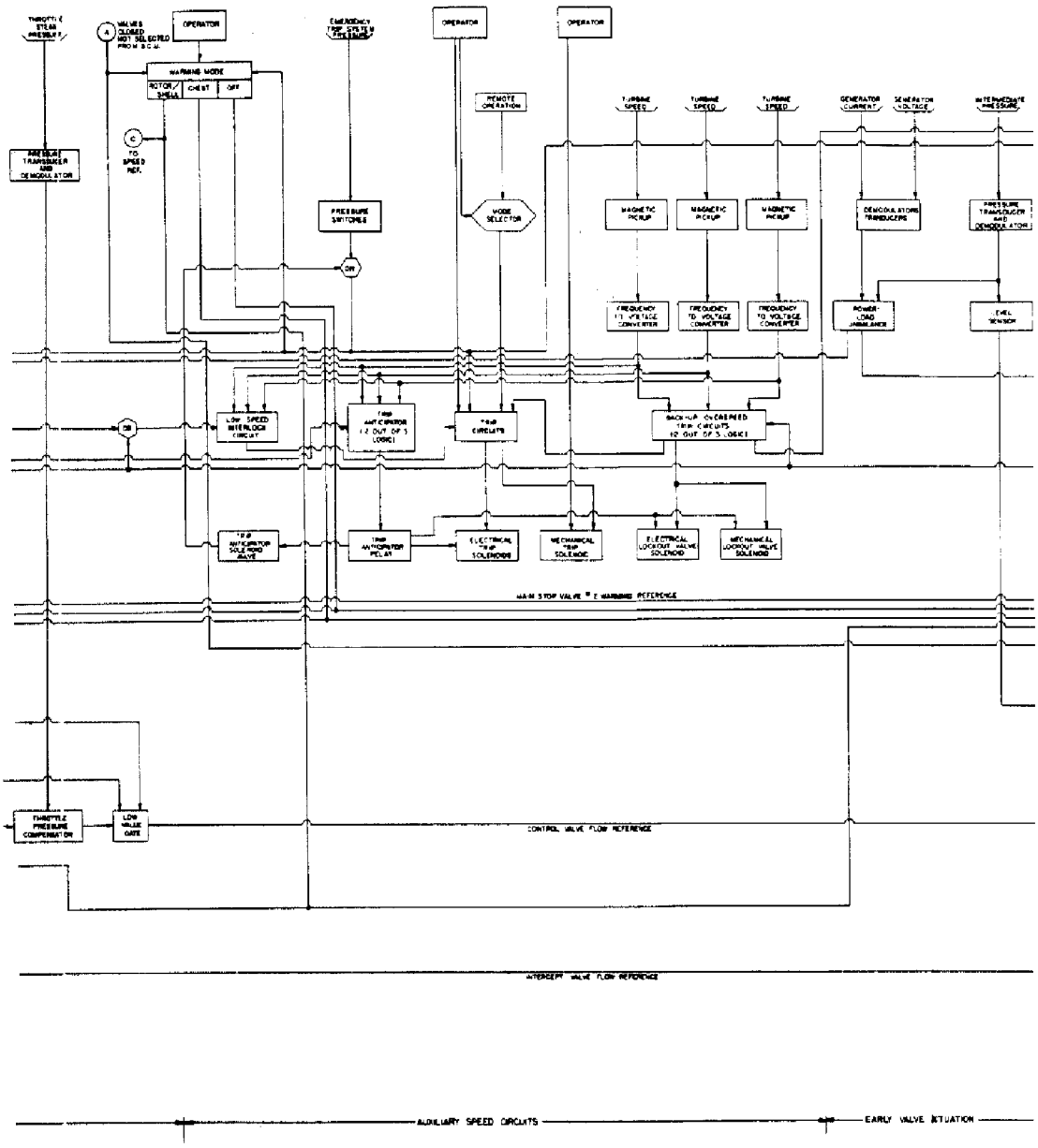
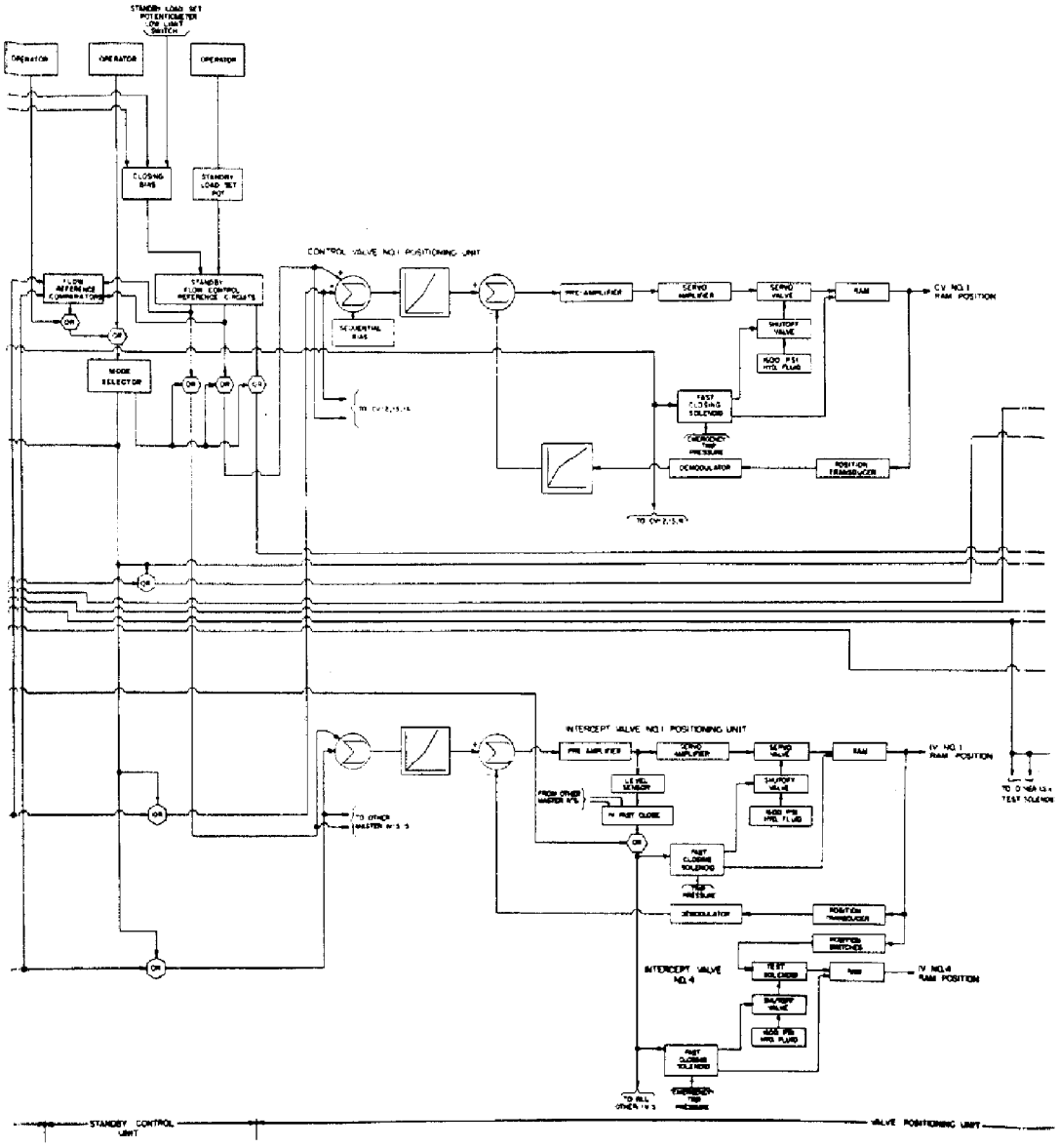


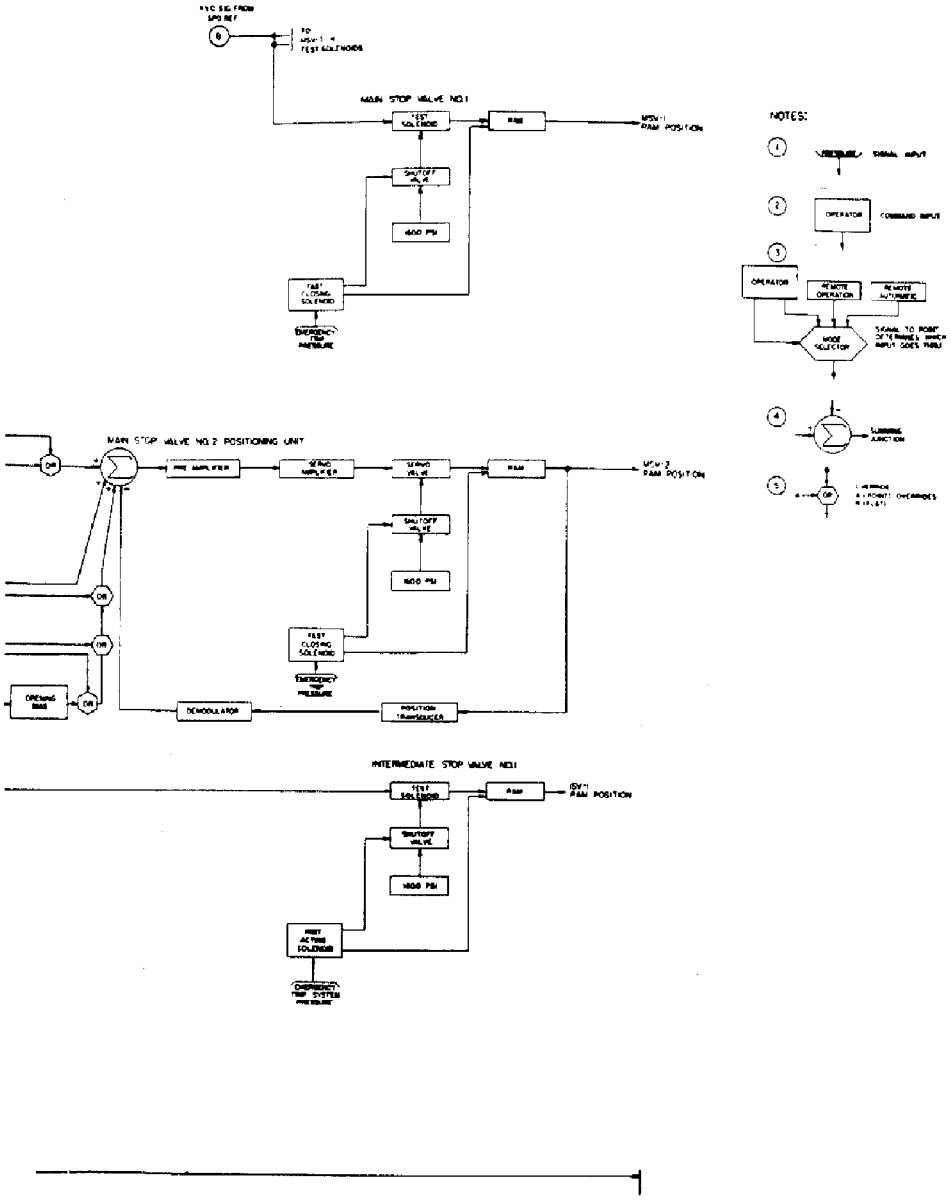
**Figure 10-2. Deleted Per 2016 Update**

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




OPERATOR
WARMING MODE
ROTOR / SHELL
CHEST
OFF
PRESSURE SWITCHES
REMOTE OPERATION
MODE SELECTOR
MAGNETIC PICKUP
MAGNETIC PICKUP
MAGNETIC PICKUP
DEMODULATORS TRANSDUCERS
LOW SPEED INTERLOCK CIRCUIT
TRIP CIRCUITS
MAIN STOP VALVE & WARMING REFERENCE
CONTROL VALVE FLOW REFERENCE
INTERCEPT VALVE FLOW REFERENCE
AUXILIARY SPEED CIRCUITS
EARLY VALVE ACTUATION


OPERATOR
OPERATOR
OPERATOR
CLOSING BARS
CONTROL VALVE NO.1 POSITIONING UNIT
MODE SELECTOR
PRE-AMPLIFIER
SERVO AMPLIFIER
SERVO VALVE
RAM
C.V. NO.1 RAM POSITION
SHUTOFF VALVE
1500 PSI HYD. FLUID
FAST CLOSING SOLENOID
DEMODULATOR
POSITION TRANSDUCER
INTERCEPT VALVE NO.1 POSITIONING UNIT
I.V. NO.1 RAM POSITION
I.V. FAST CLOSE
INTERCEPT VALVE NO.4
I.V. NO.4 RAM POSITION
TEST SOLENOID
STANDBY CONTROL UNIT
VALVE POSITIONING UNIT


MAIN STOP VALVE NO.1
MSV-1 RAM POSITION
1600 PSI
EMERGENCY TRIP PRESSURE
NOTES:
OPERATOR
REMOTE OPERATION
REMOTE AUTOMATIC
MODE SELECTOR
MAIN STOP VALVE NO.2 POSITIONING UNIT
PRE AMPLIFIER
SERVO AMPLIFIER
SERVO VALVE
RAM
MSV-2 RAM POSITION
SHUTOFF VALVE
1600 PSI
TEST CLOSING SOLENOID
EMERGENCY TRIP PRESSURE
DEMODULATOR
POSITION TRANSDUCER
INTERMEDIATE STOP VALVE NO.1
TEST SOLENOID
RAM
ISV-1 RAM POSITION
SHUTOFF VALVE
1600 PSI
TEST ACTING SOLENOID
EMERGENCY TRIP SYSTEM PRESSURE

## Figure 10-4. Flow Diagram of Hydrogen Bulk Storage System(ES)

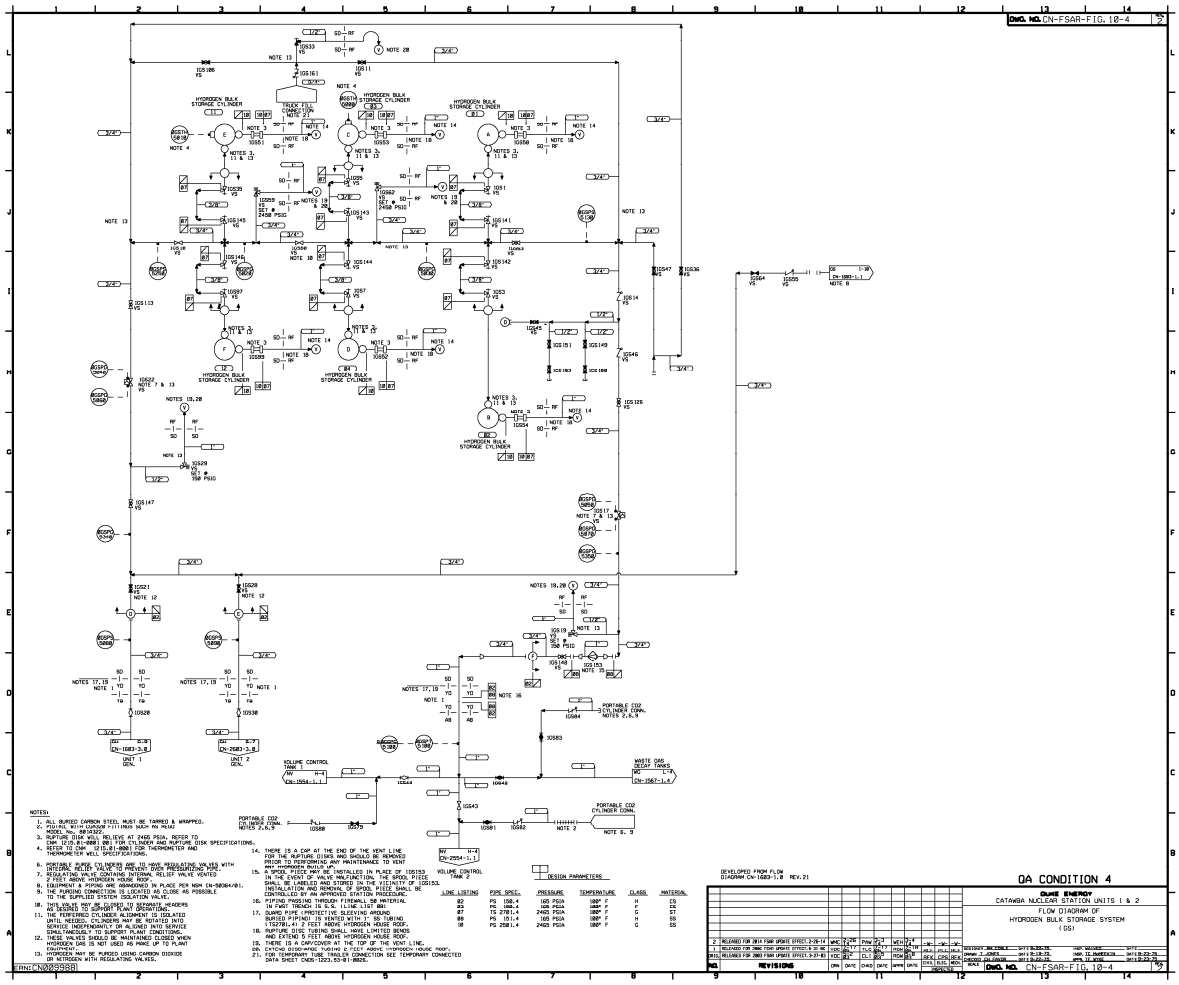


**Figure 10-5. Flow Diagram of Main Steam System-Main Steam Vent to ATMOS**

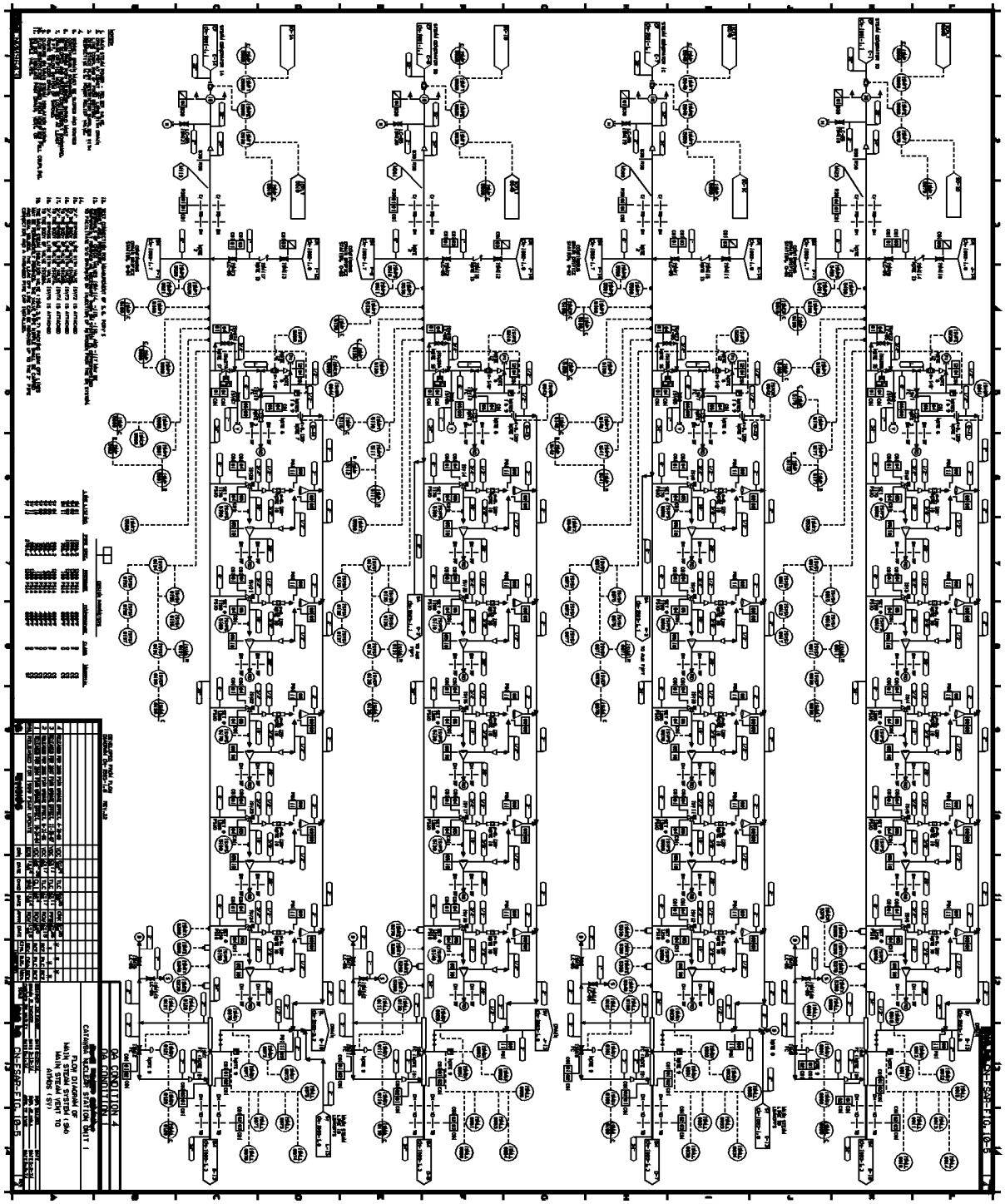


**Figure 10-6. Flow Diagram of Main Steam to Auxiliary Equipment - Main Steam Bypass to Condenser**

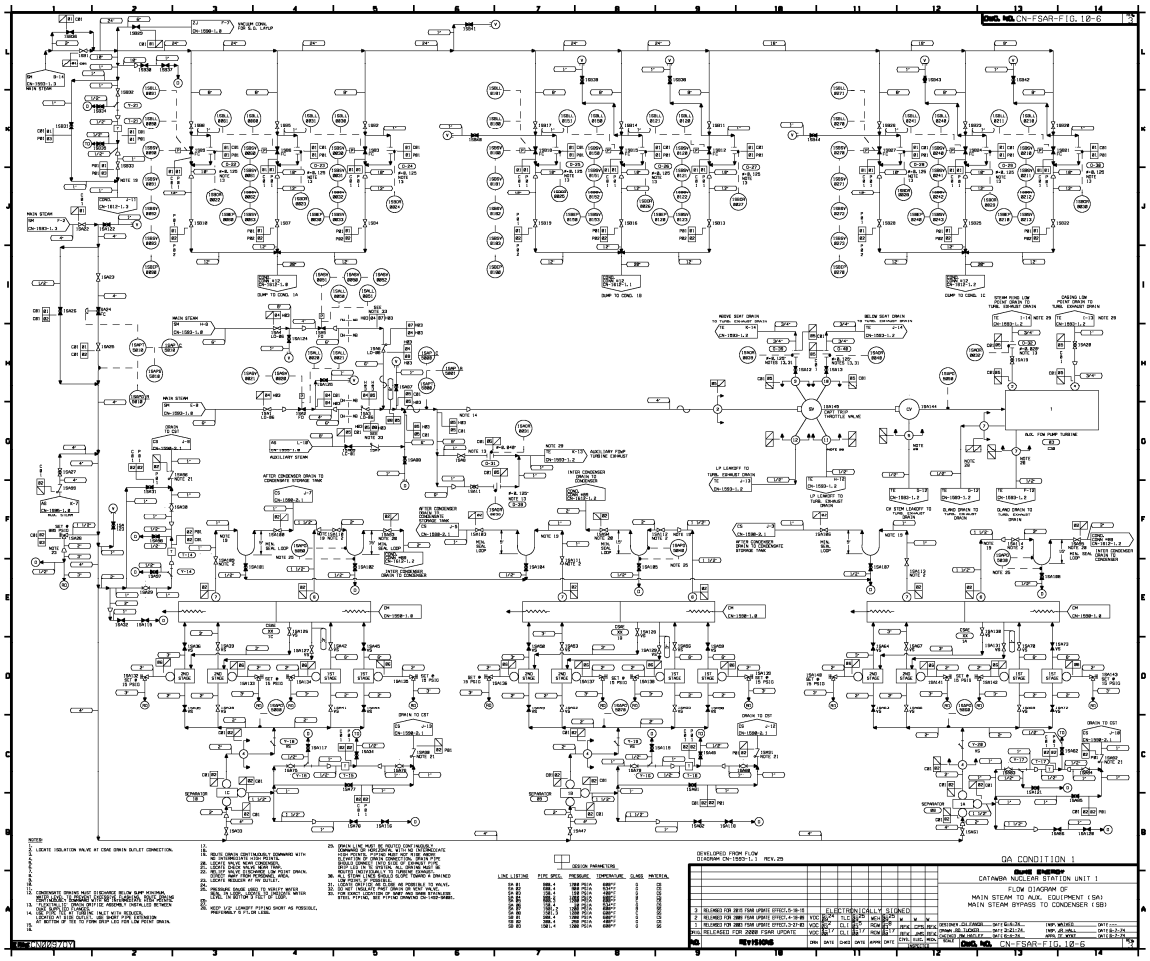
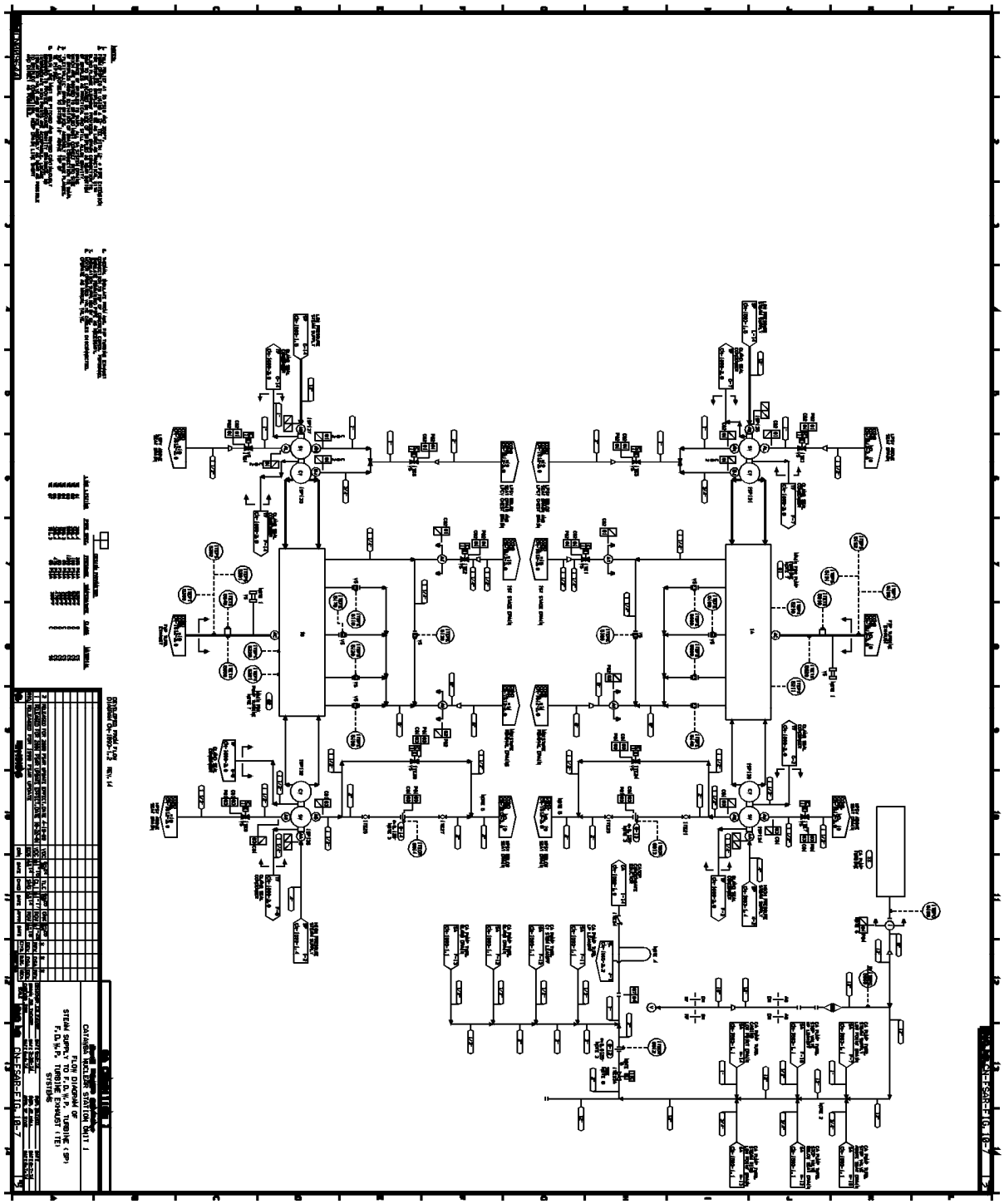
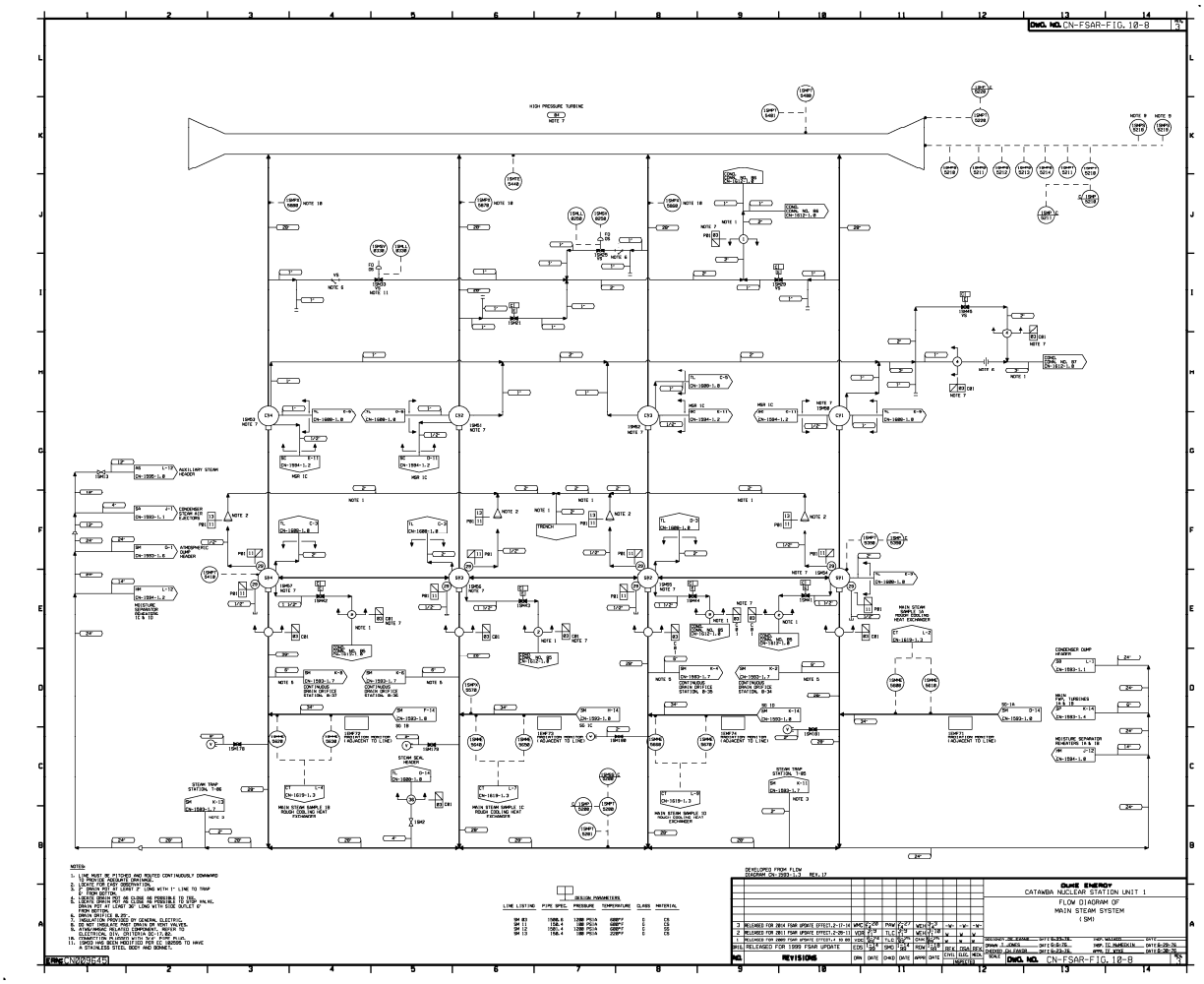


**Figure 10-7. Flow Diagram of FDWP Turbine Exhaust**



## Figure 10-8. Flow Diagram of Main Steam System



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

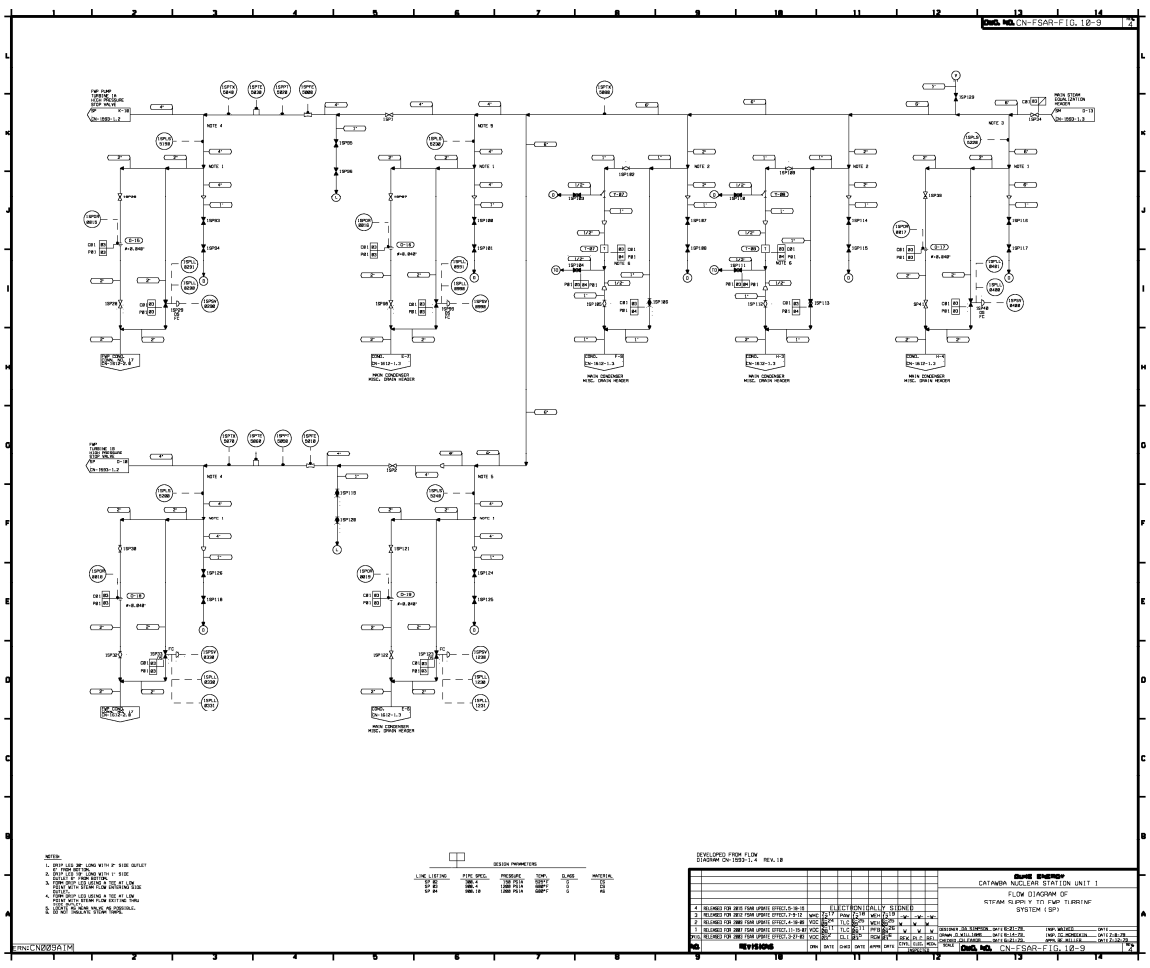
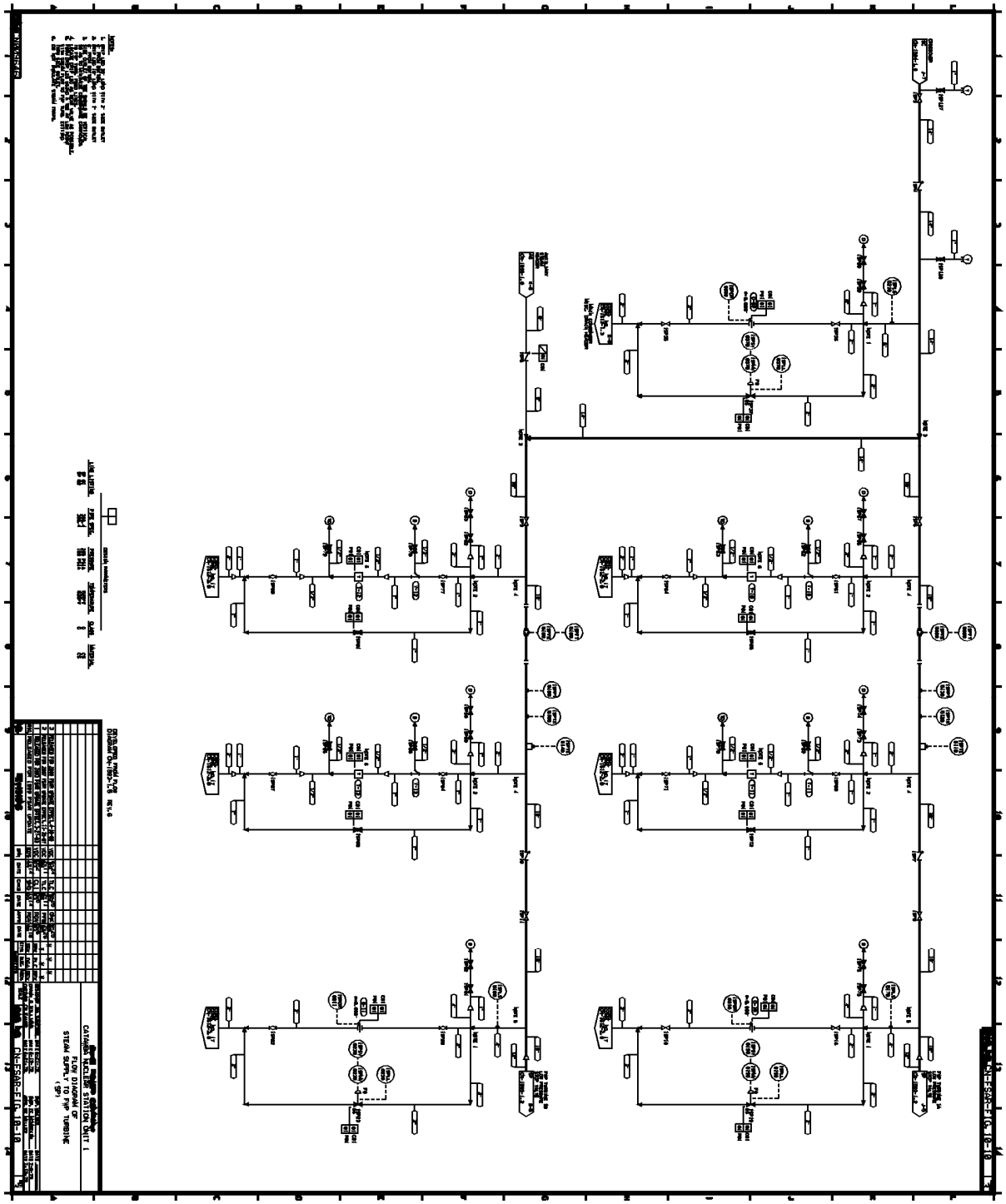
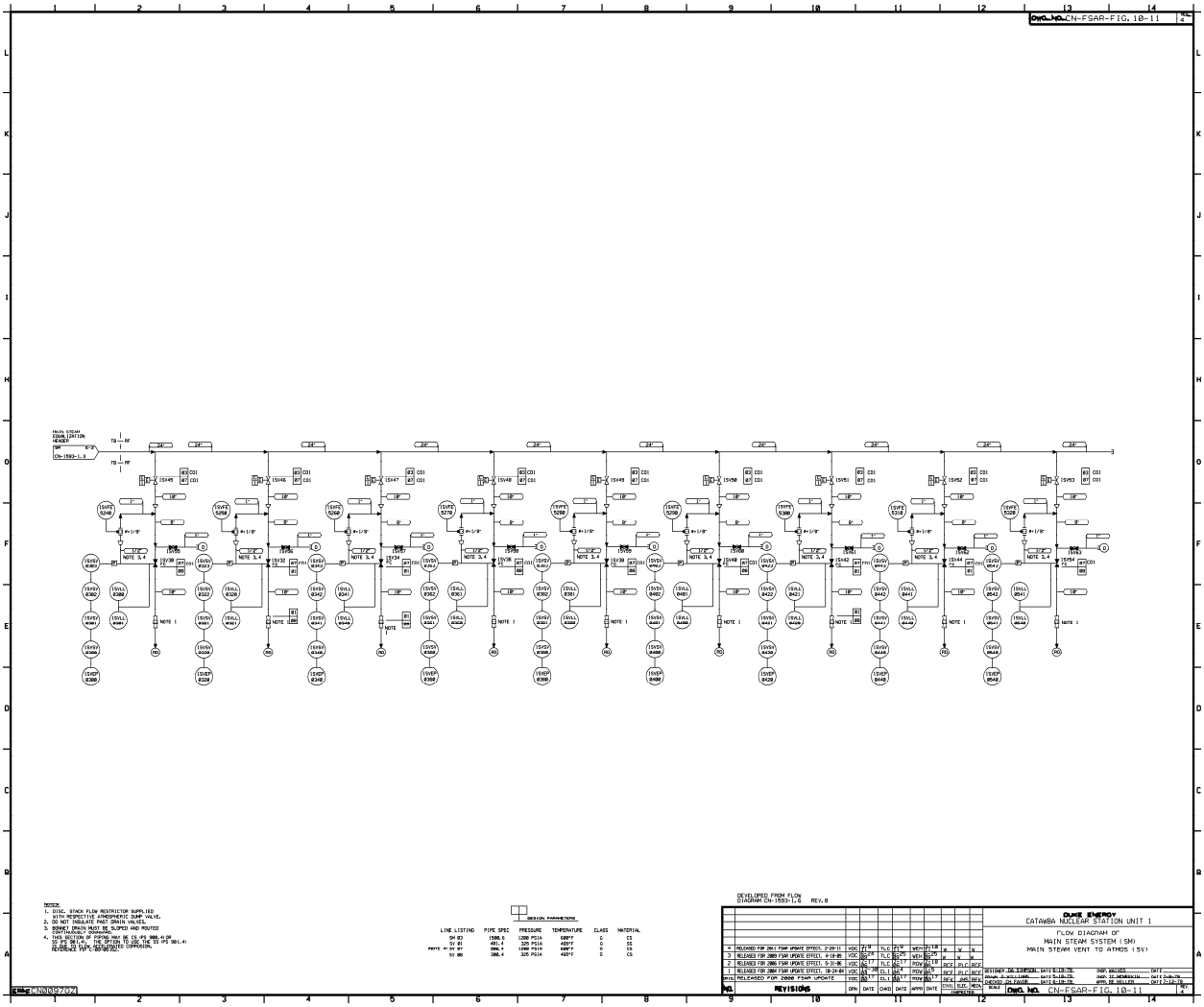


**Figure 10-10. Flow Diagram of Steam Supply to FWP Turbine System**



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



## Figure 10-12. Flow Diagram of Main Steam System

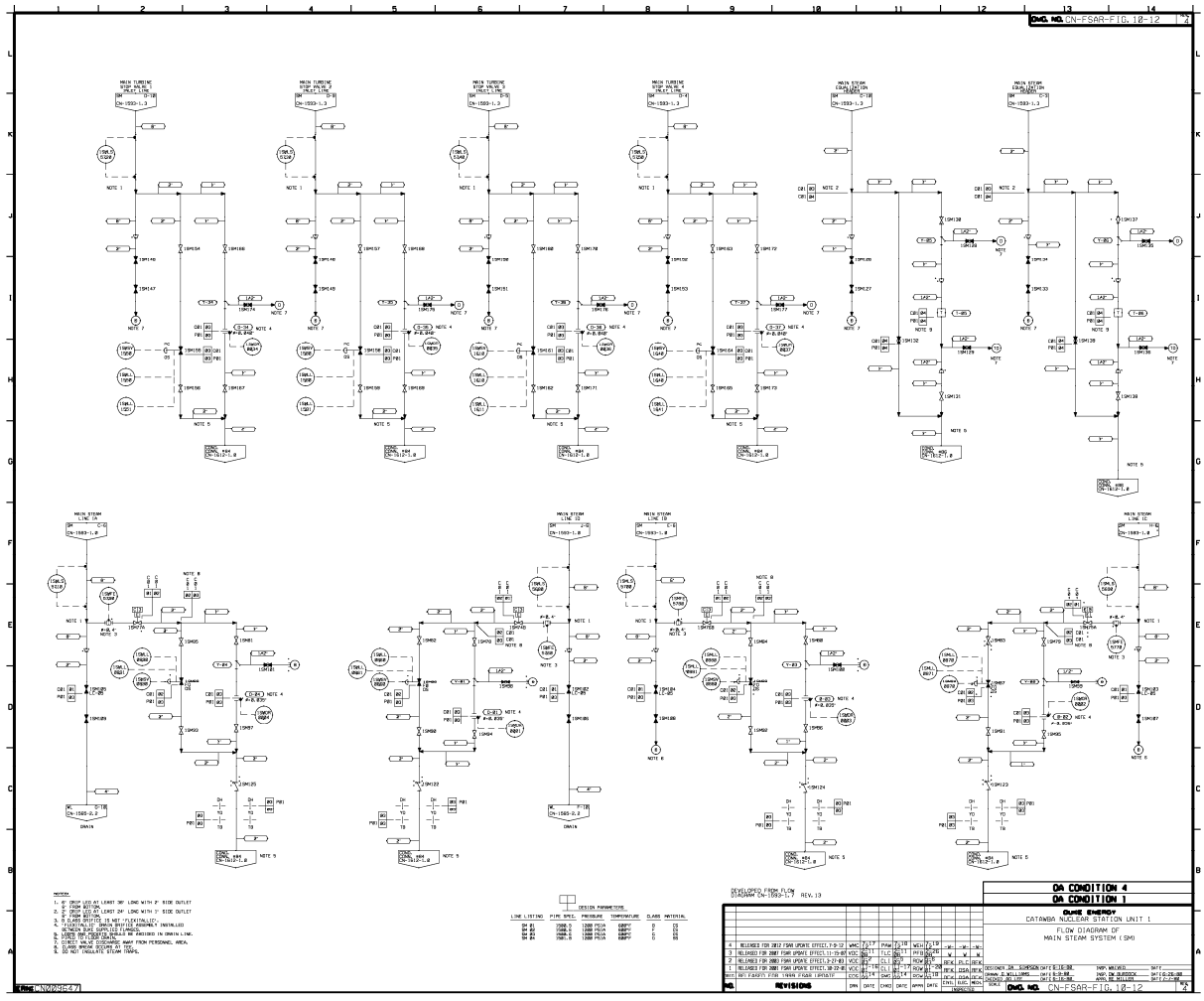
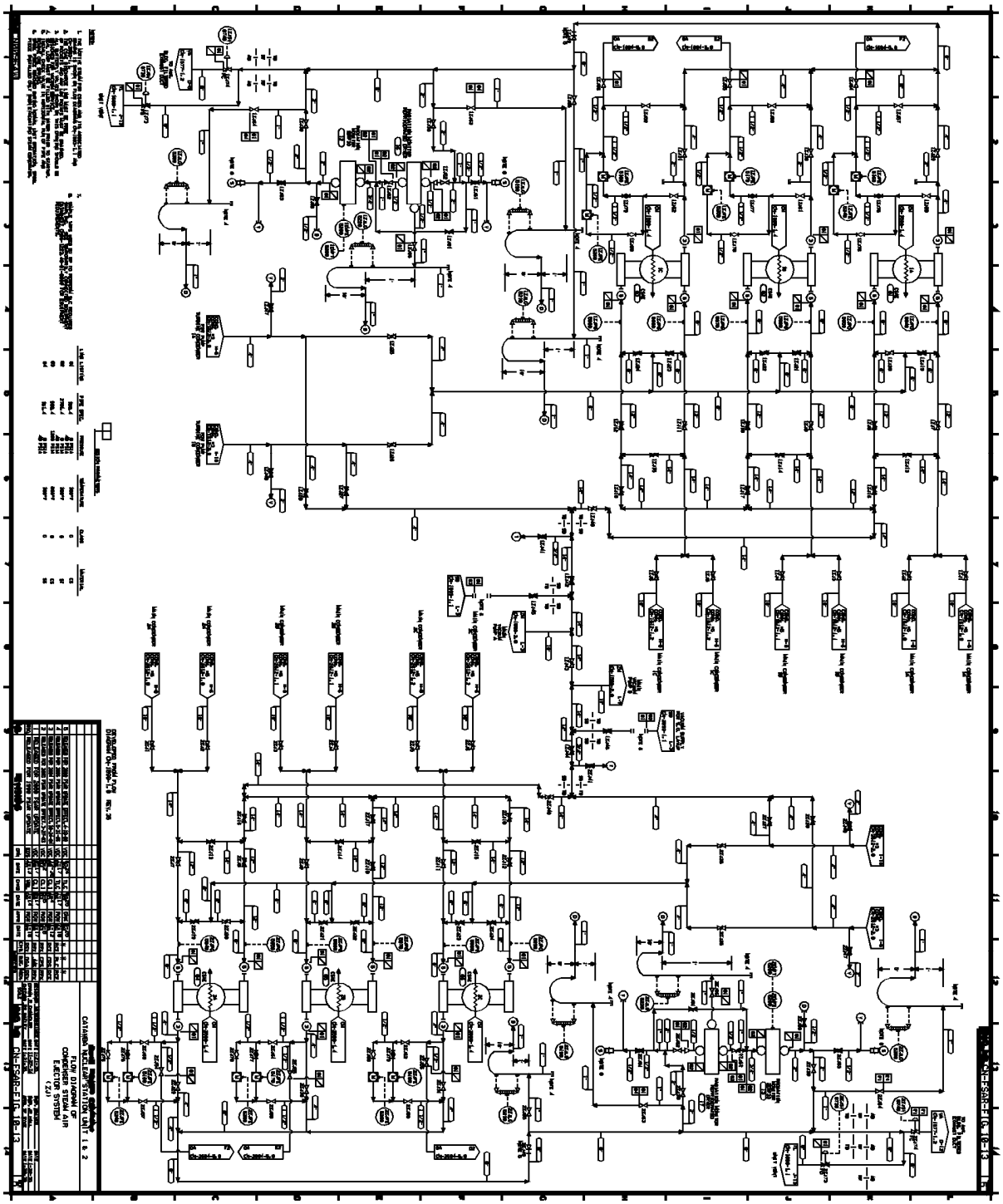
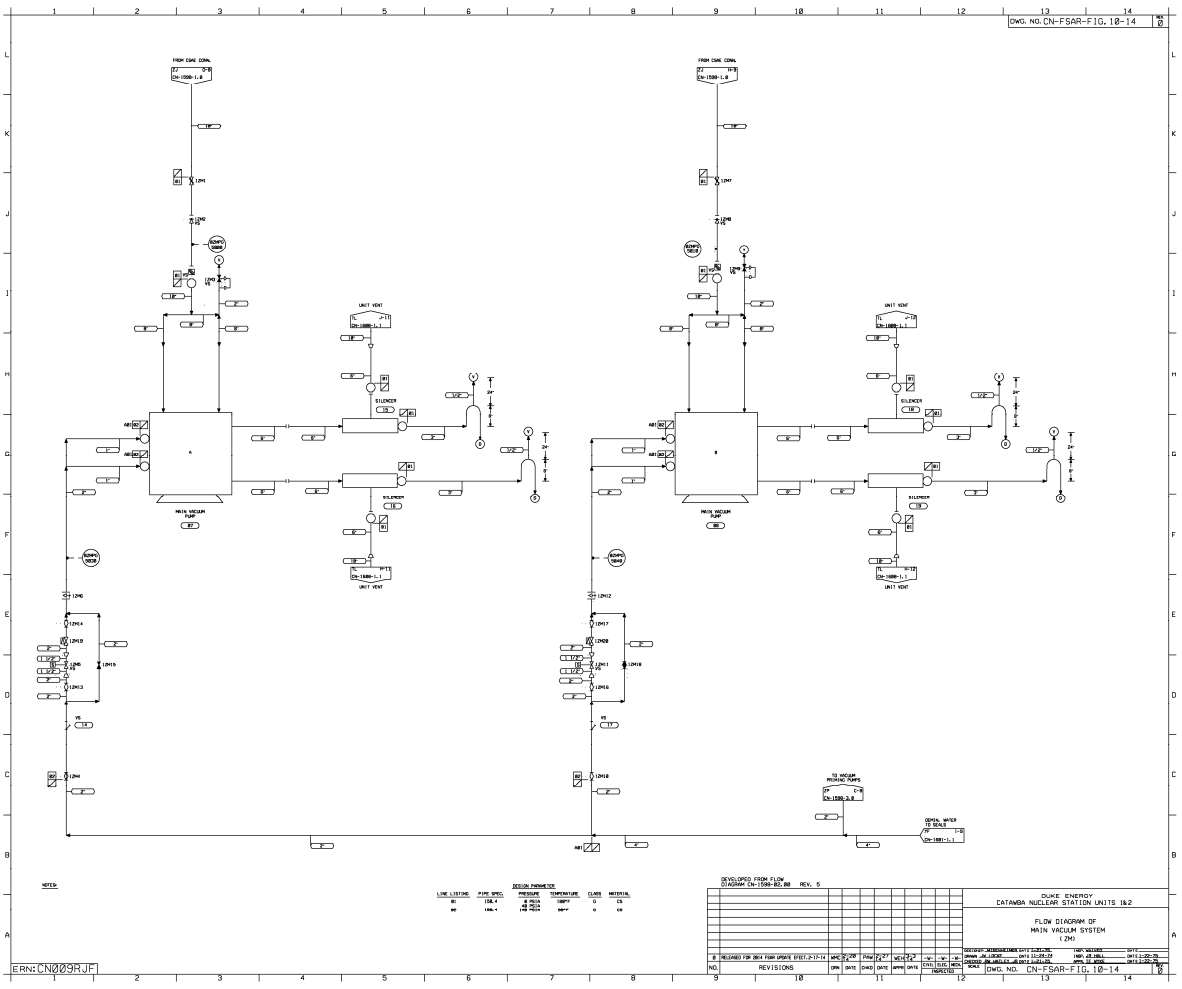


**Figure 10-13. Flow Diagram of Condenser Steam Air Ejection System**



## Figure 10-14. Flow Diagram of Main Vacuum System



## Figure 10-15. Flow Diagram of Main Turbine Leakoff & Steam Seal System

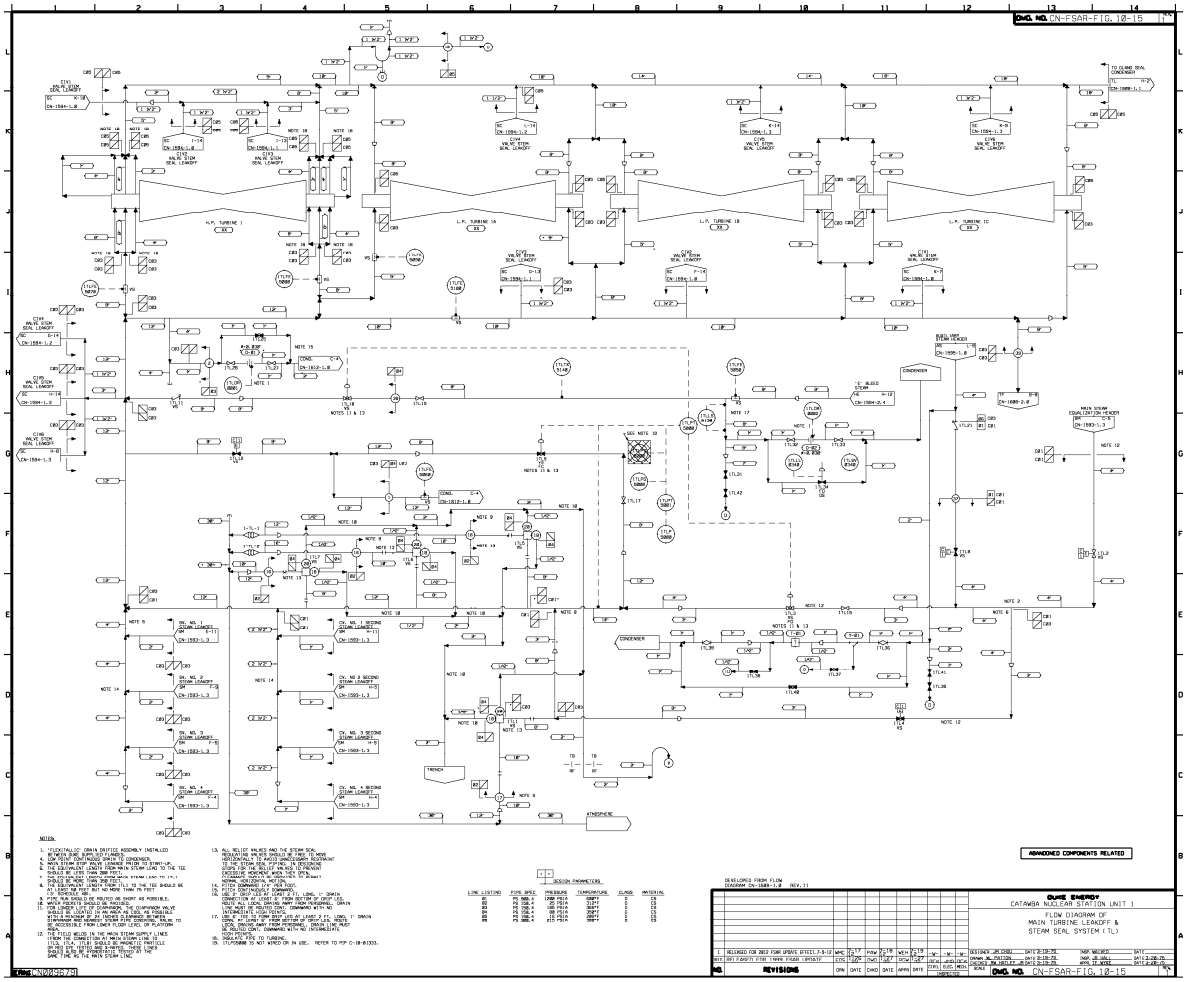


**Figure 10-16. Flow Diagram of Main Turbine Leakoff and Steam Seal System**

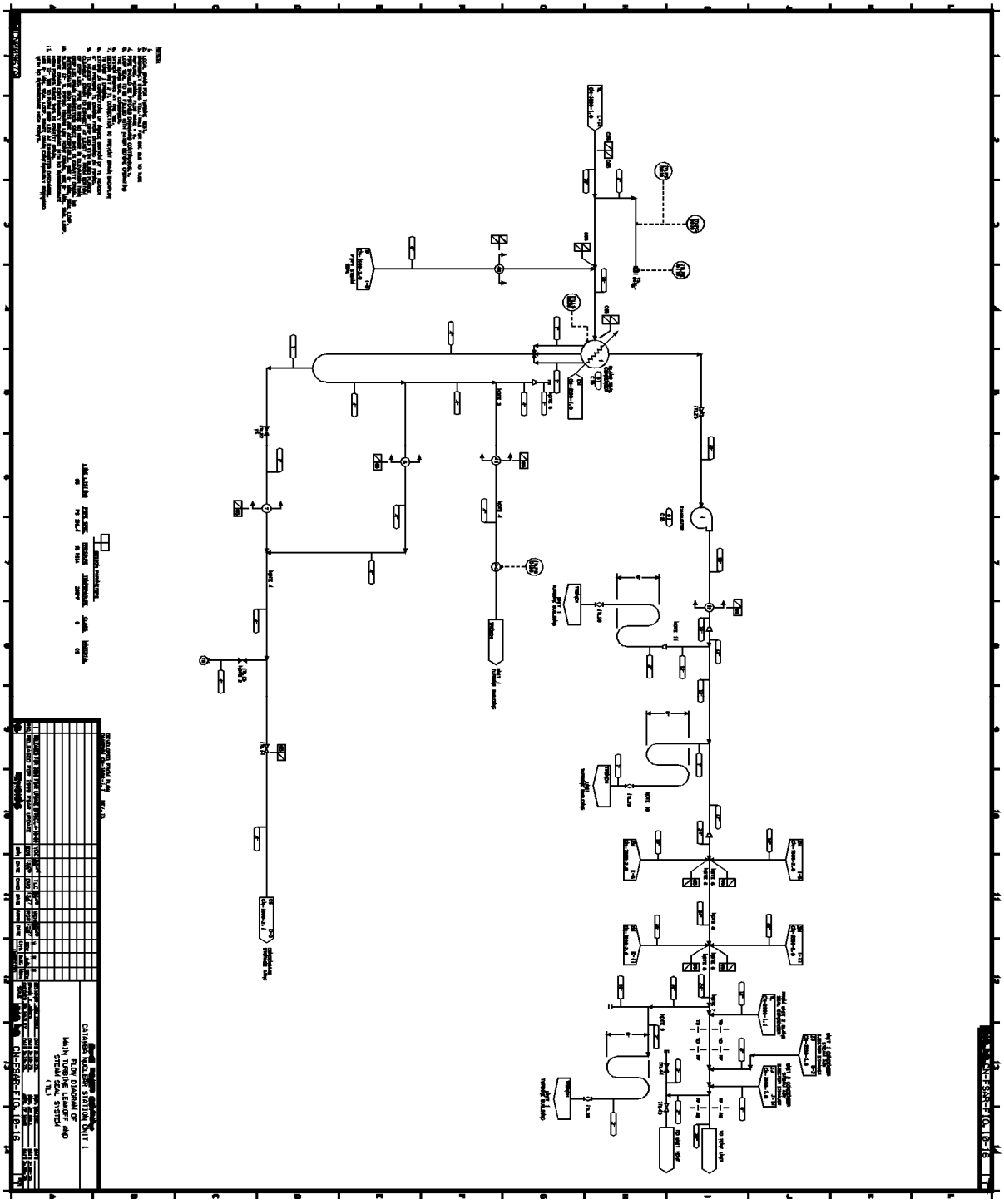
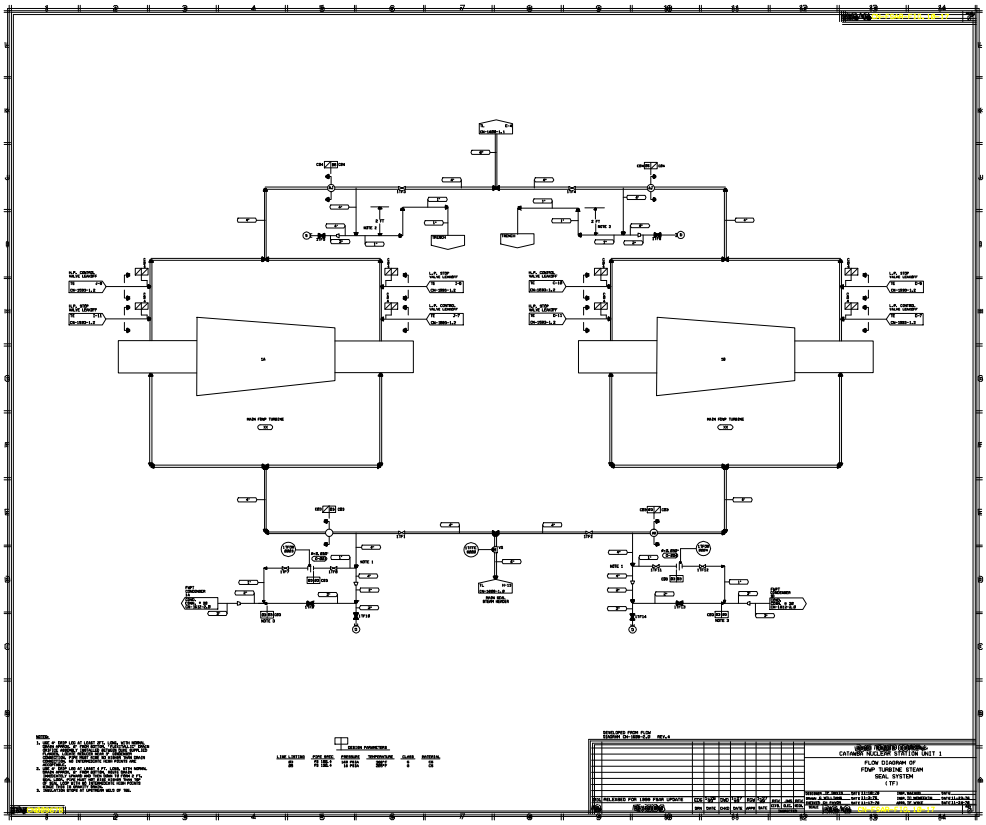


**Figure 10-17. Flow Diagram of FDWP Turbine Steam Seal System**



## Figure 10-18. Flow Diagram of Condensate System

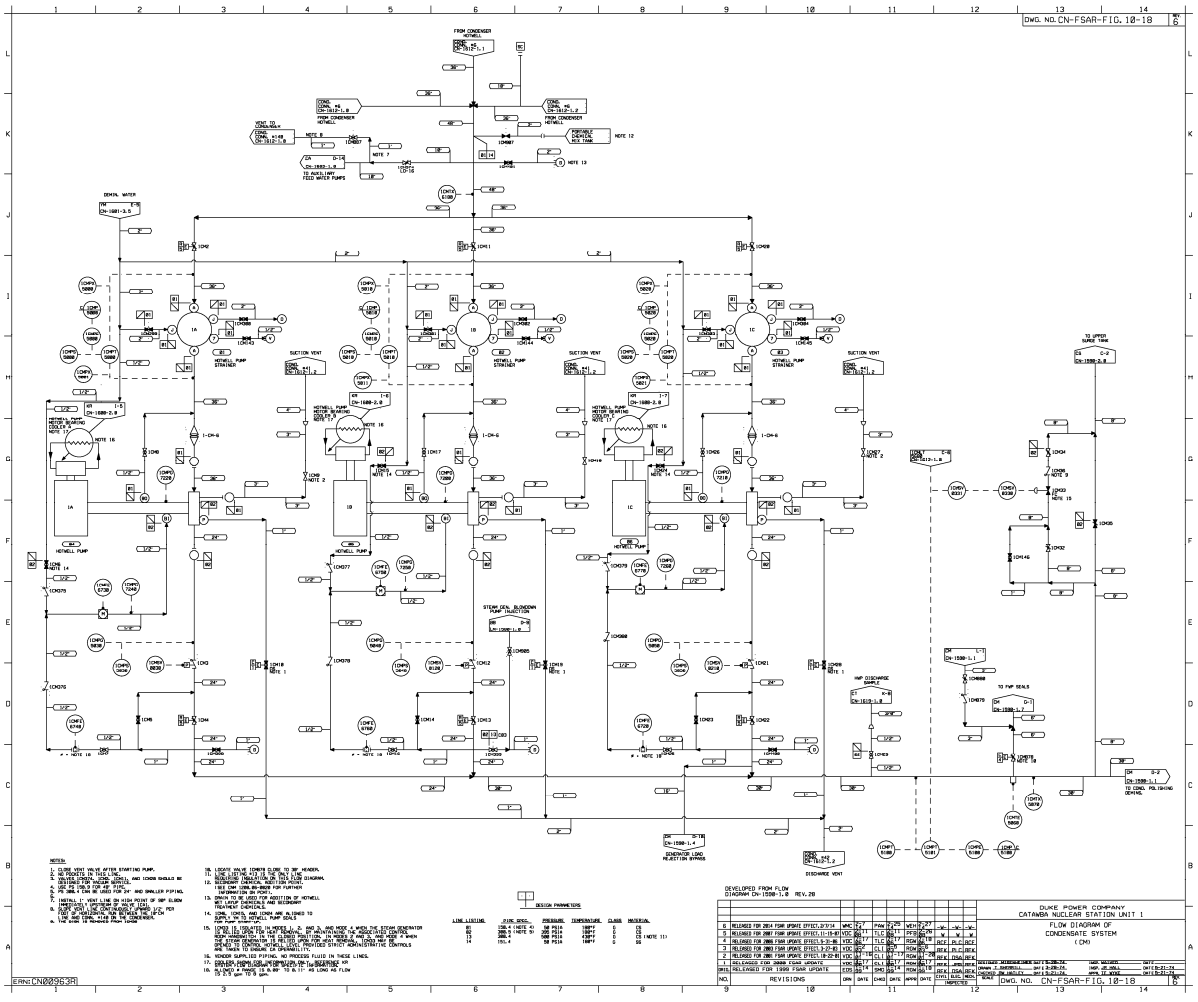


**Figure 10-19. Flow Diagram of Condensate System**

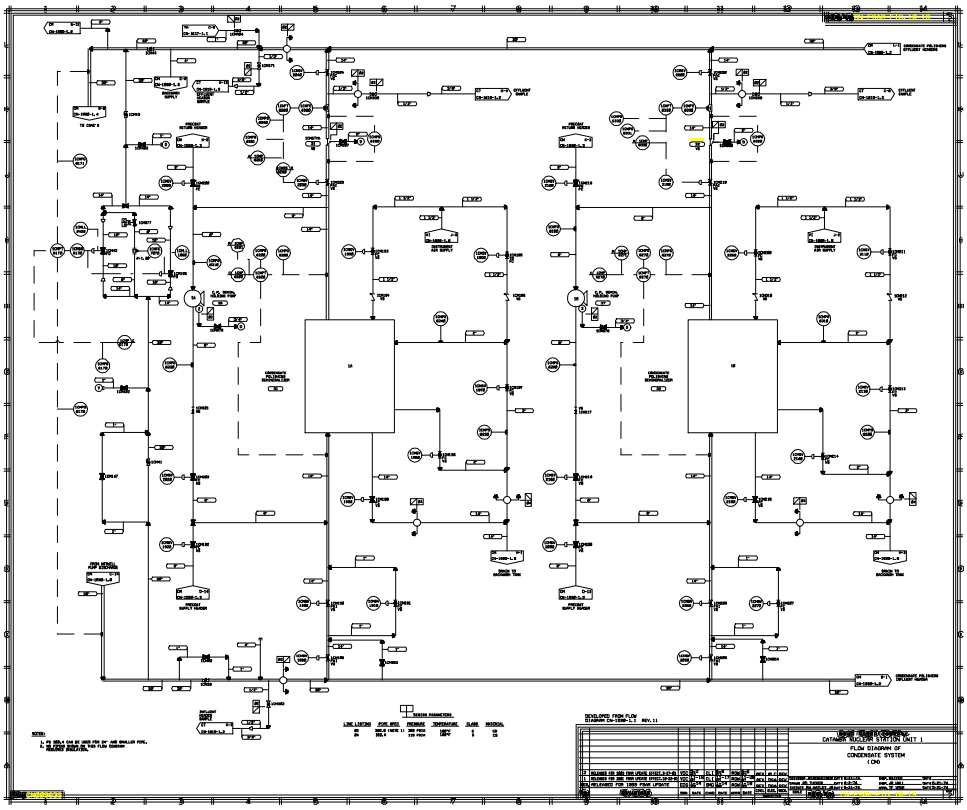


**Figure 10-20. Flow Diagram of Condensate System**

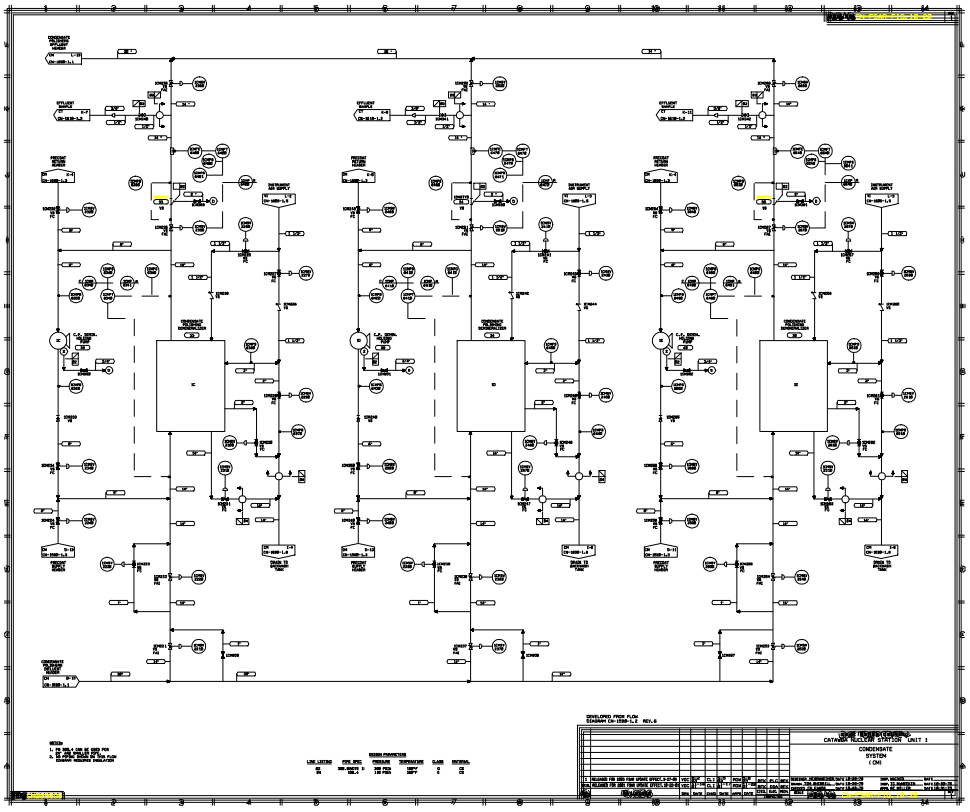
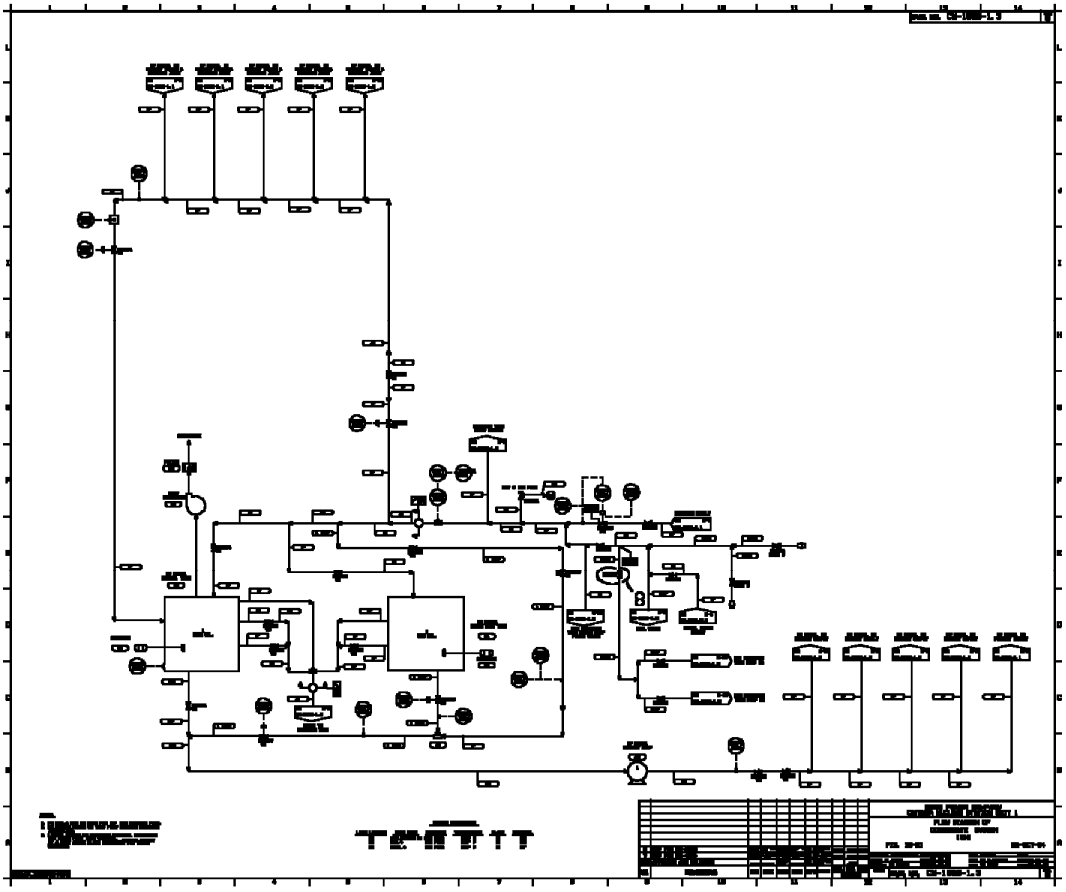
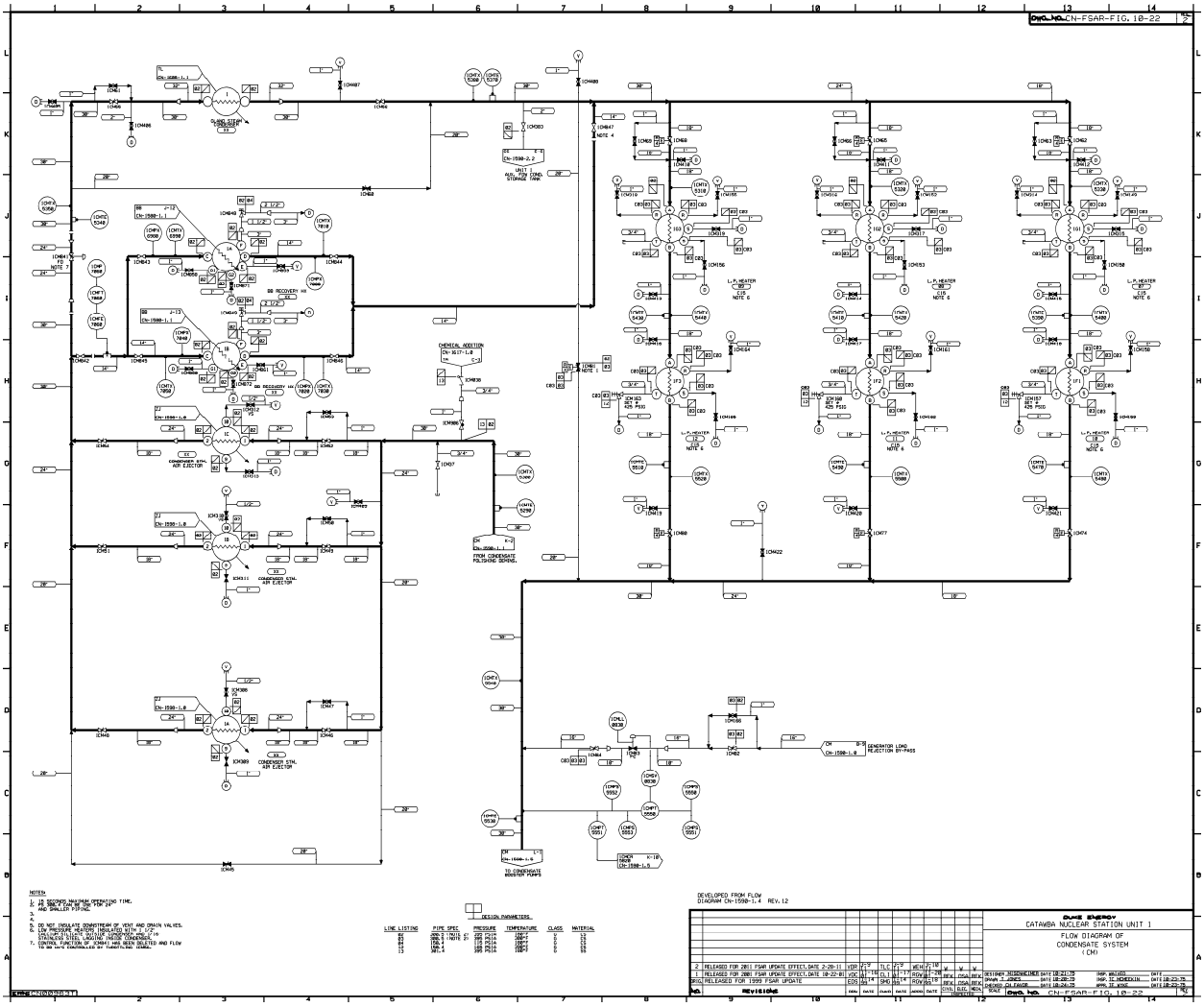


**Figure 10-21. Flow Diagram of Condensate System**



## Figure 10-22. Flow Diagram of Condensate System



## Figure 10-23. Flow Diagram of Condensate System

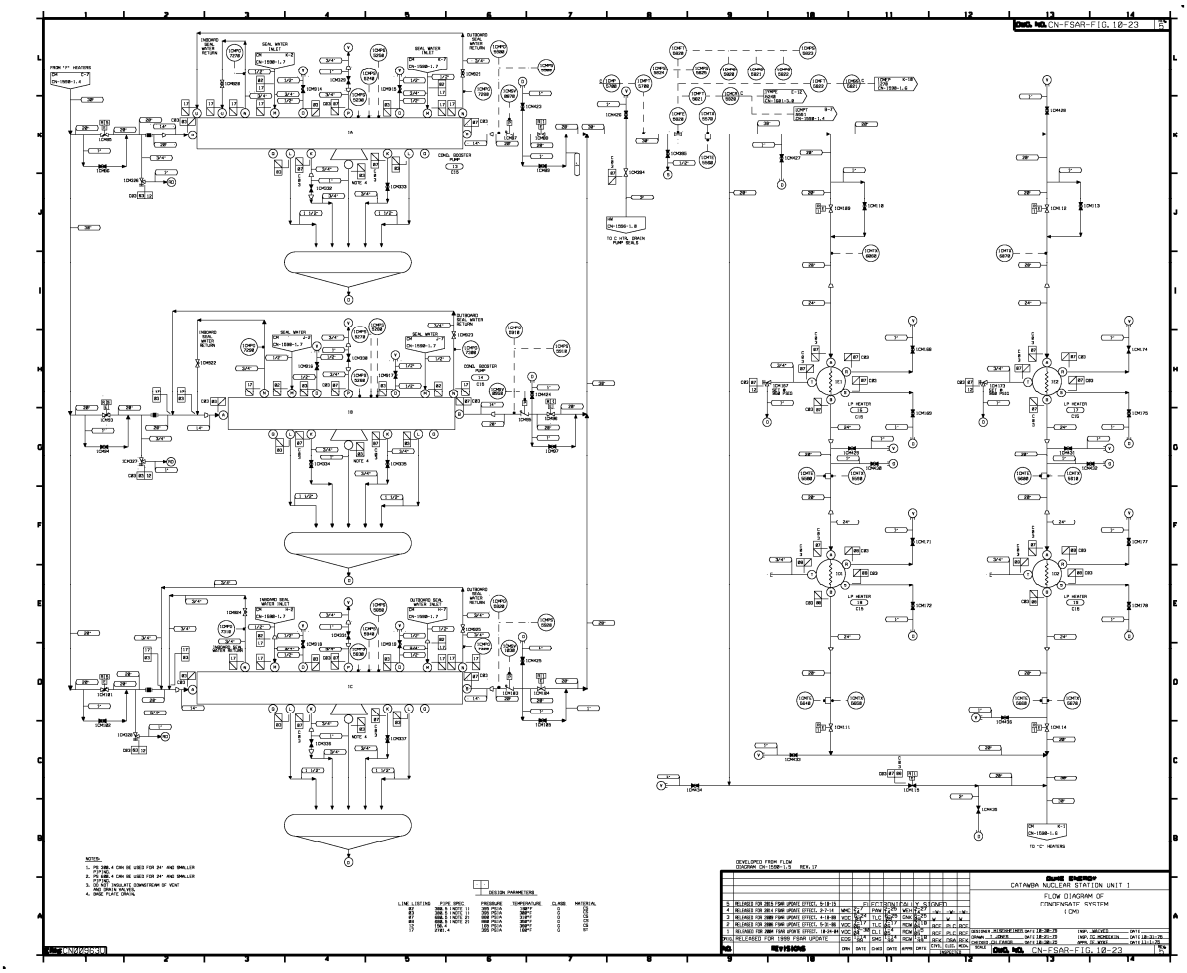


**Figure 10-24. Flow Diagram of Condensate System**

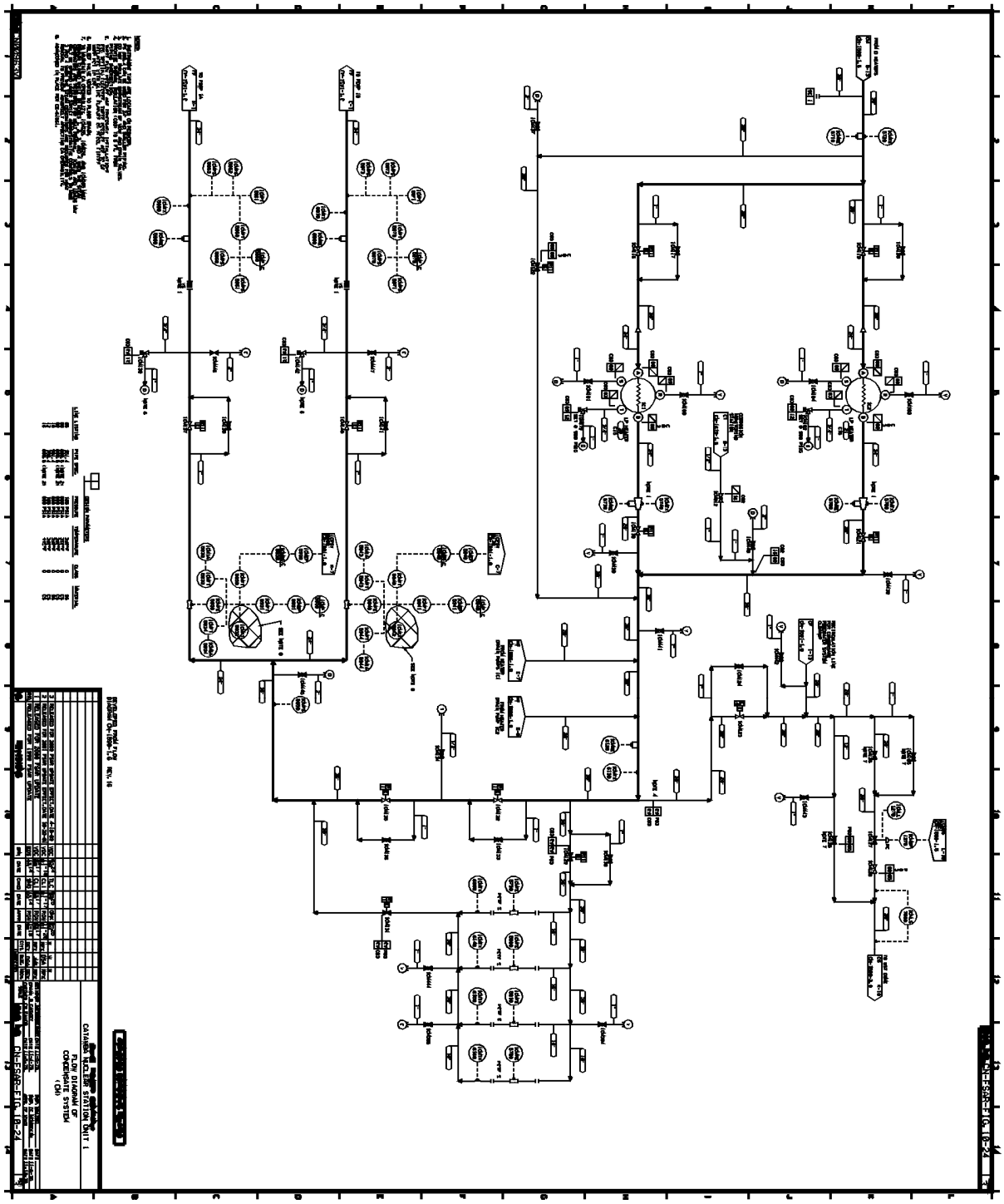


**Figure 10-25. Flow Diagram of Condensate System**

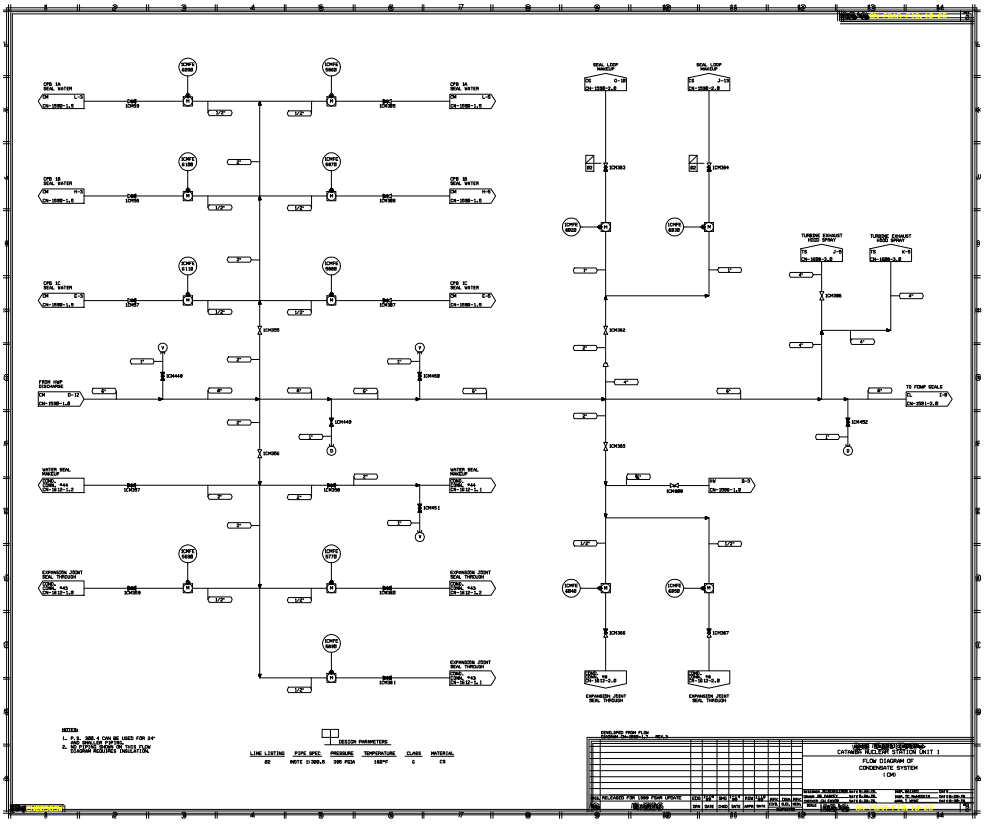
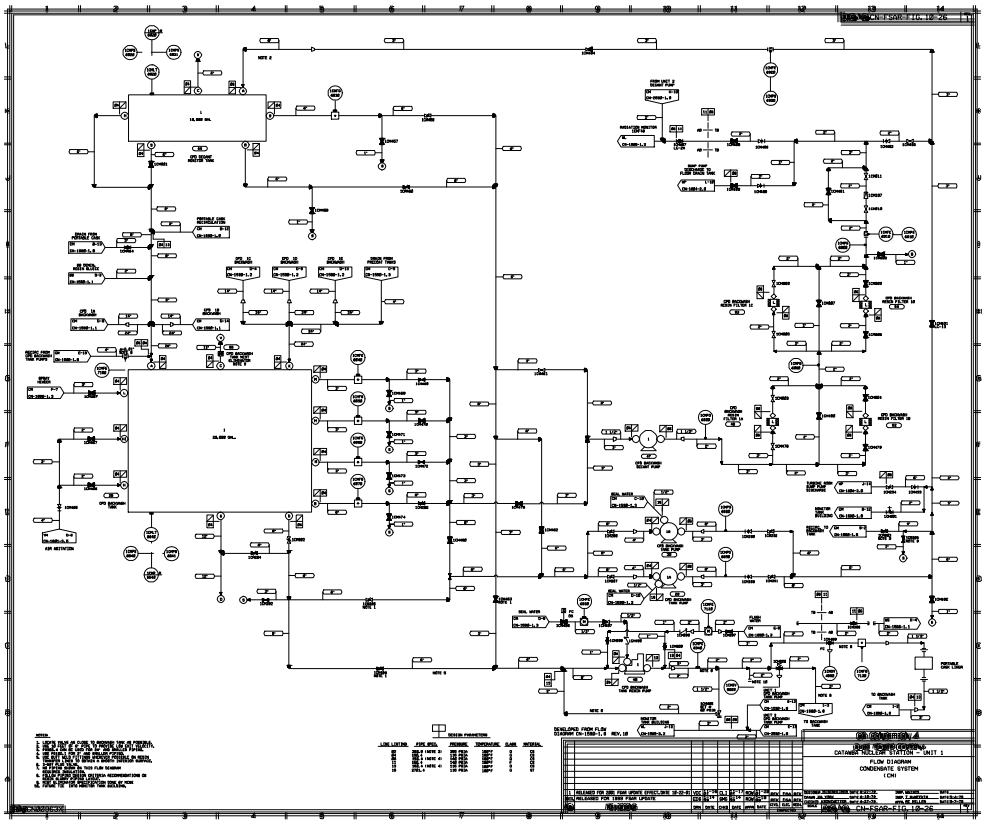
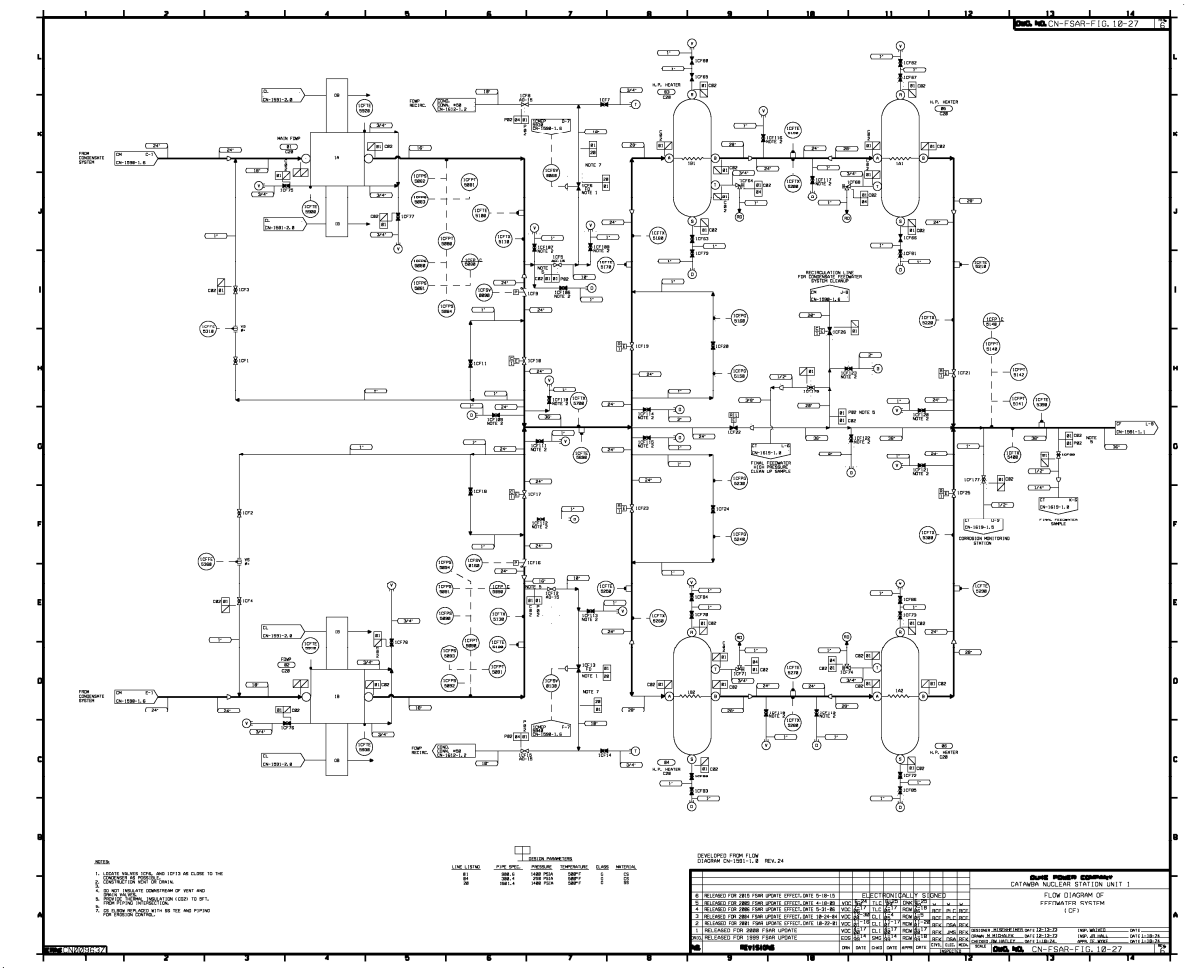


**Figure 10-26. Flow Diagram of Condensate System**



## Figure 10-27. Flow Diagram of Feedwater System



## Figure 10-28. Flow Diagram of Feedwater System

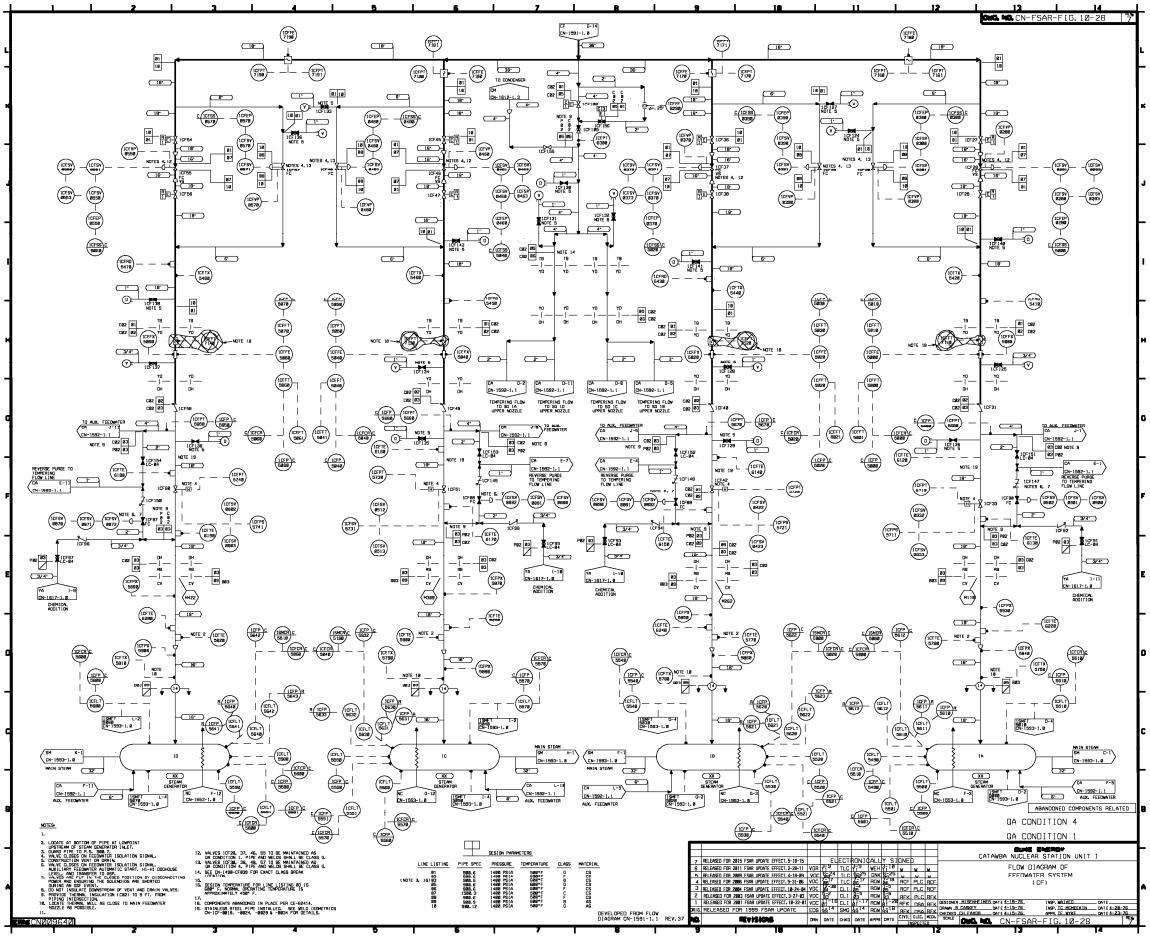
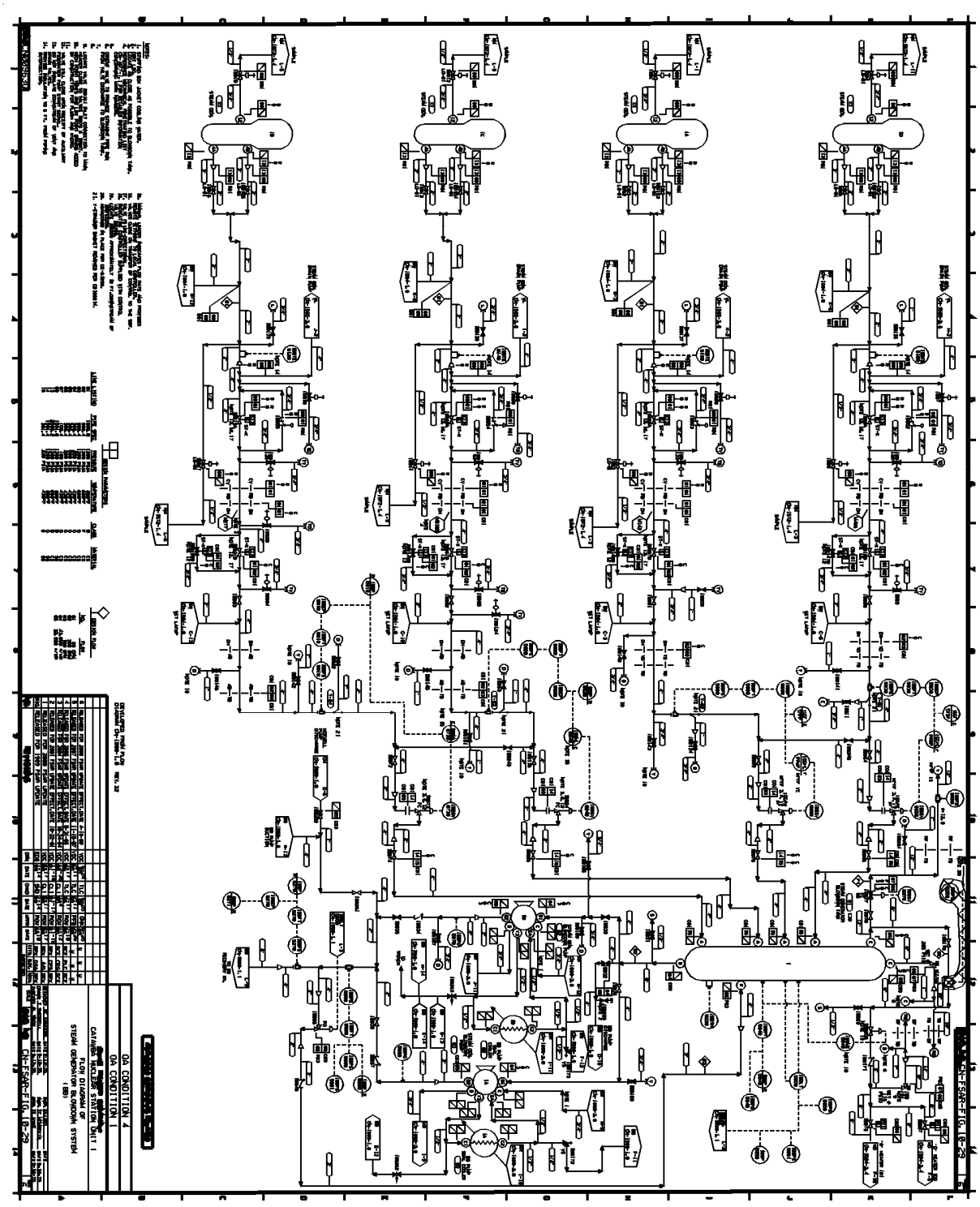
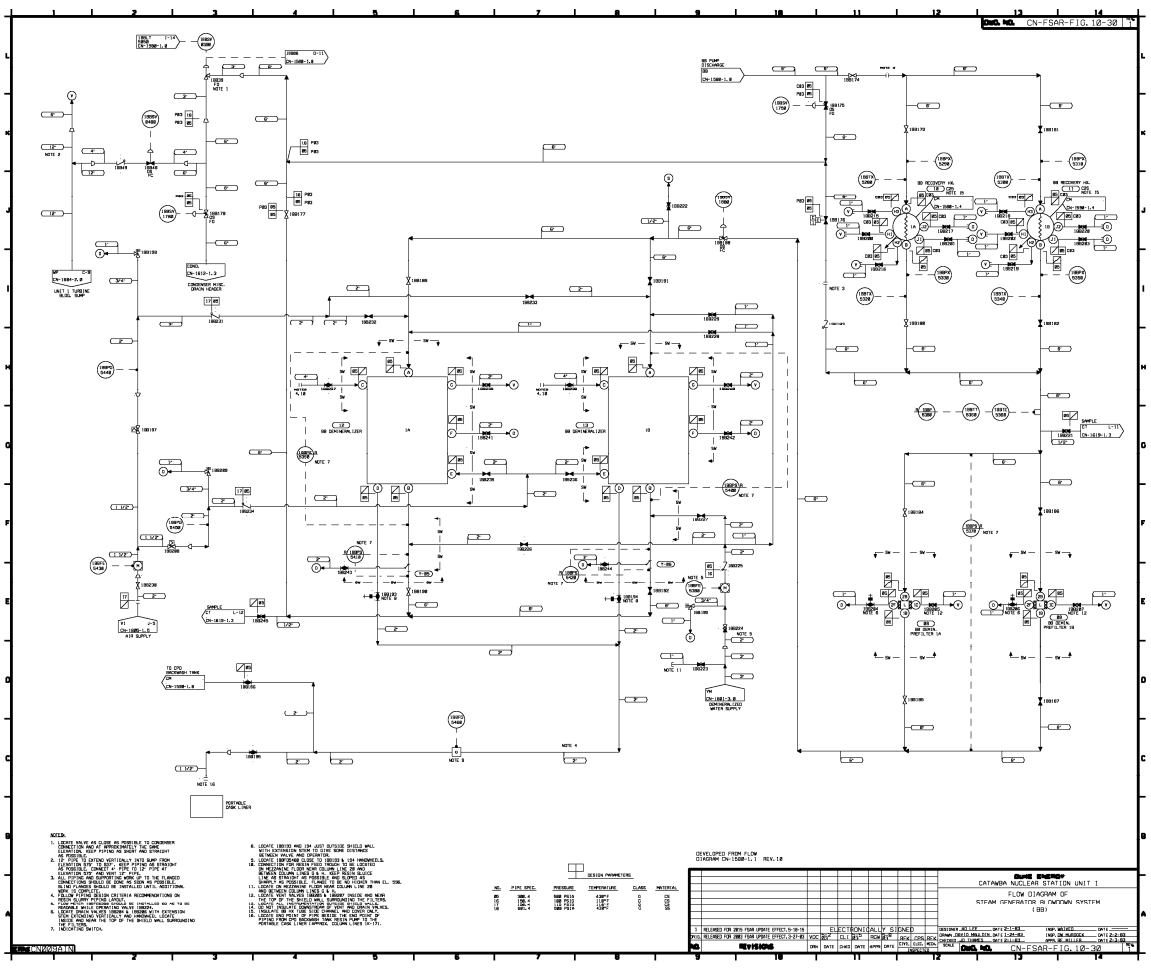


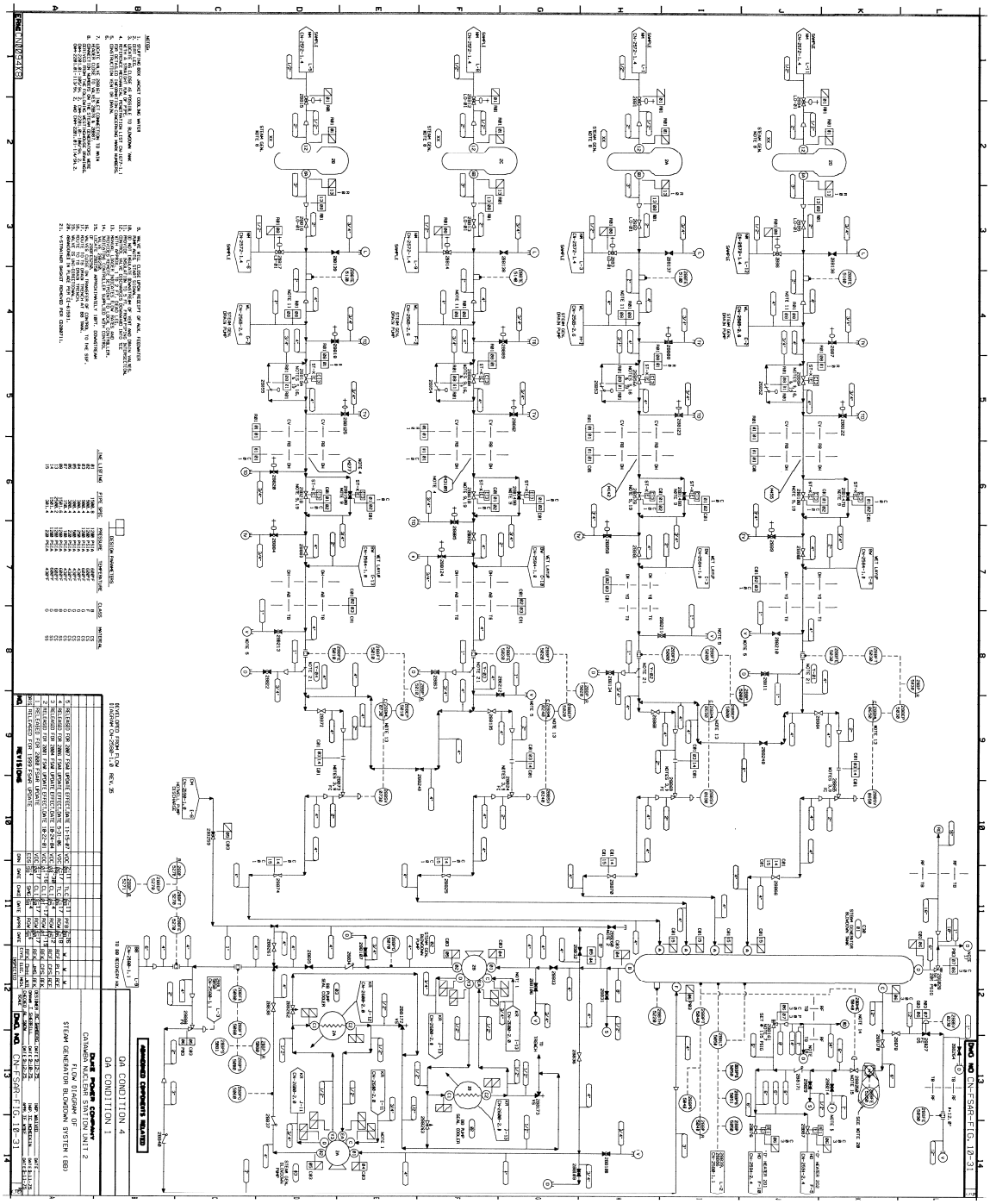
**Figure 10-29. Flow Diagram of Steam Generator Blowdown System**



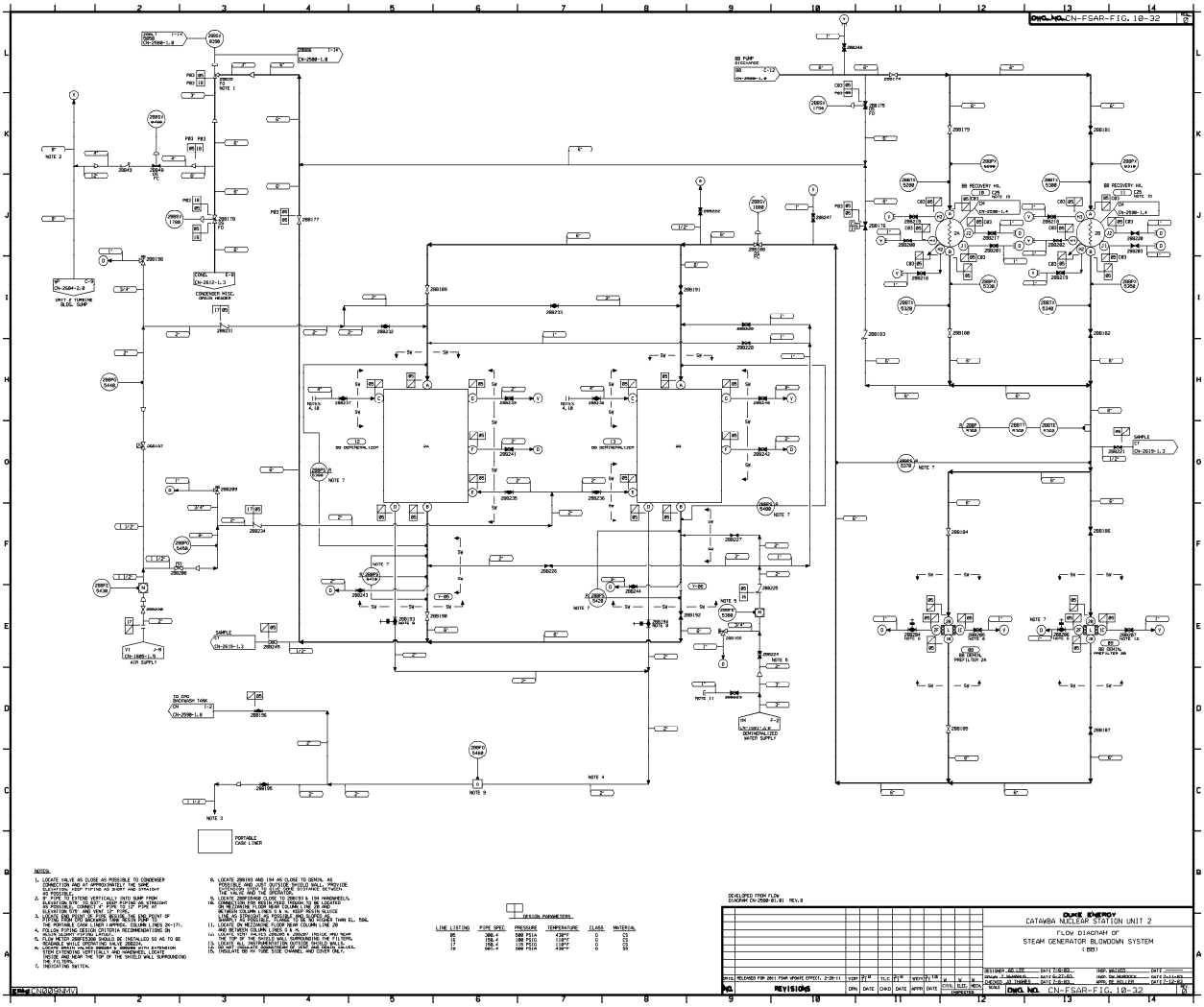
## Figure 10-30. Flow Diagram of Steam Generator Blowdown System



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



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



## Figure 10-33. Flow Diagram of Auxiliary Feedwater System

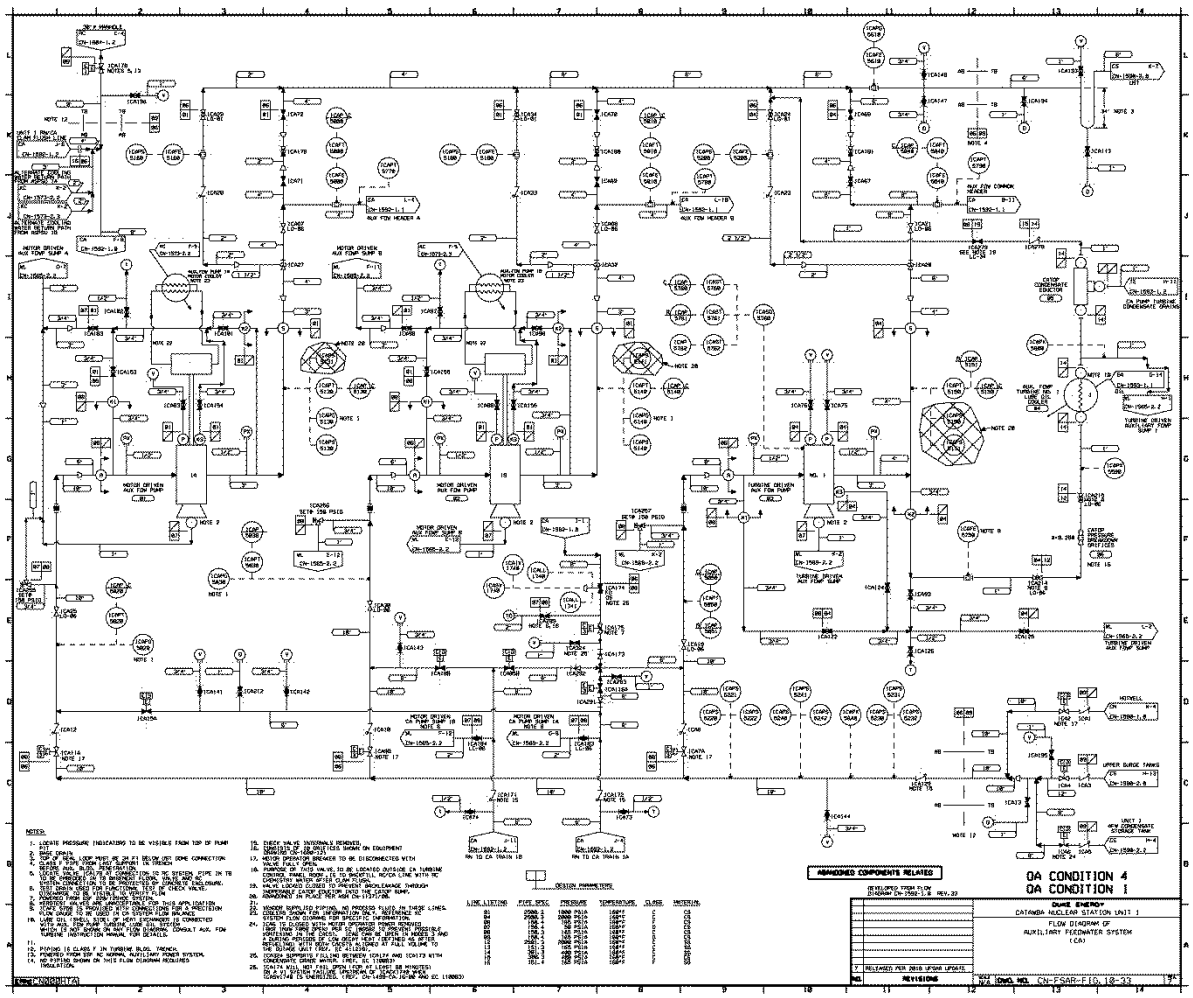
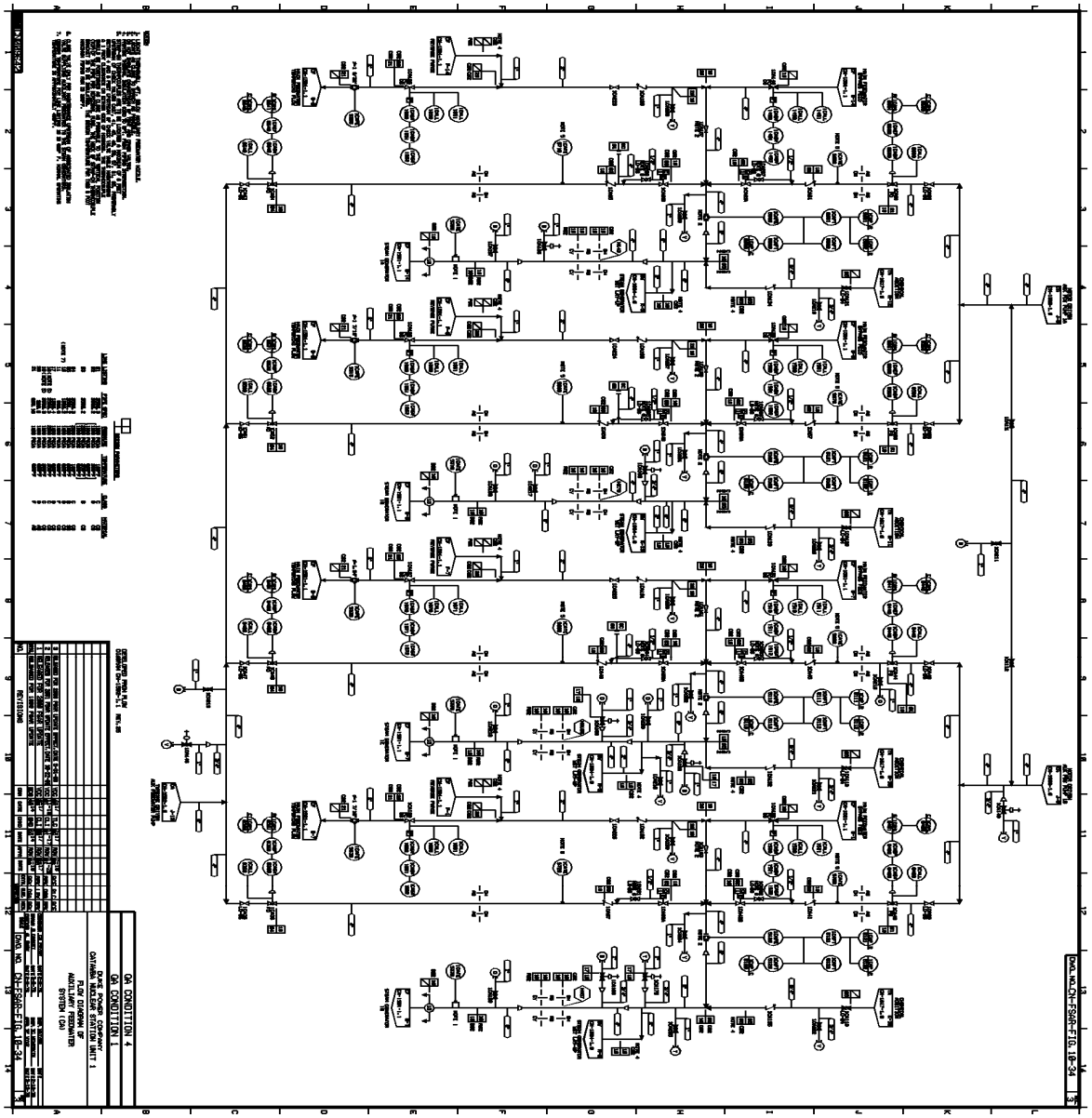
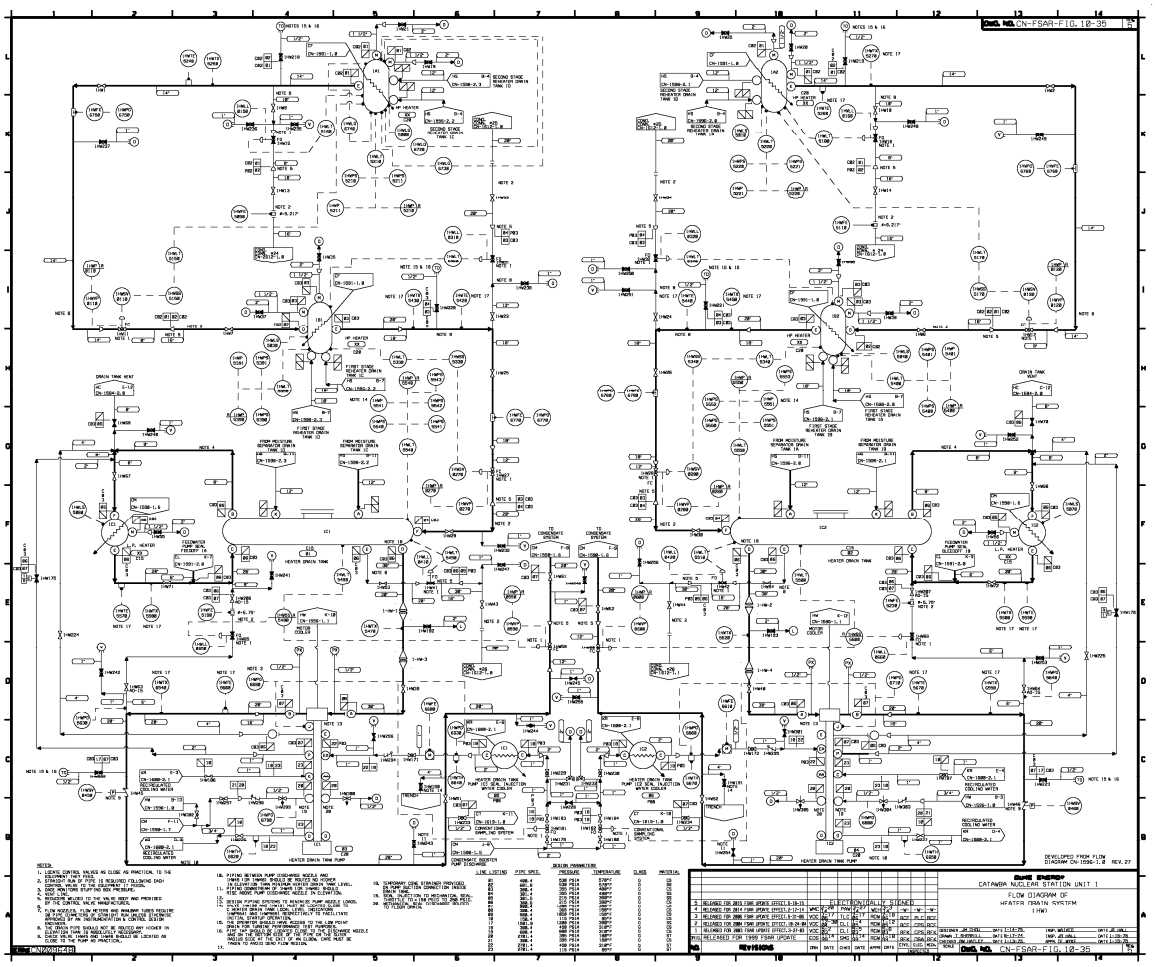


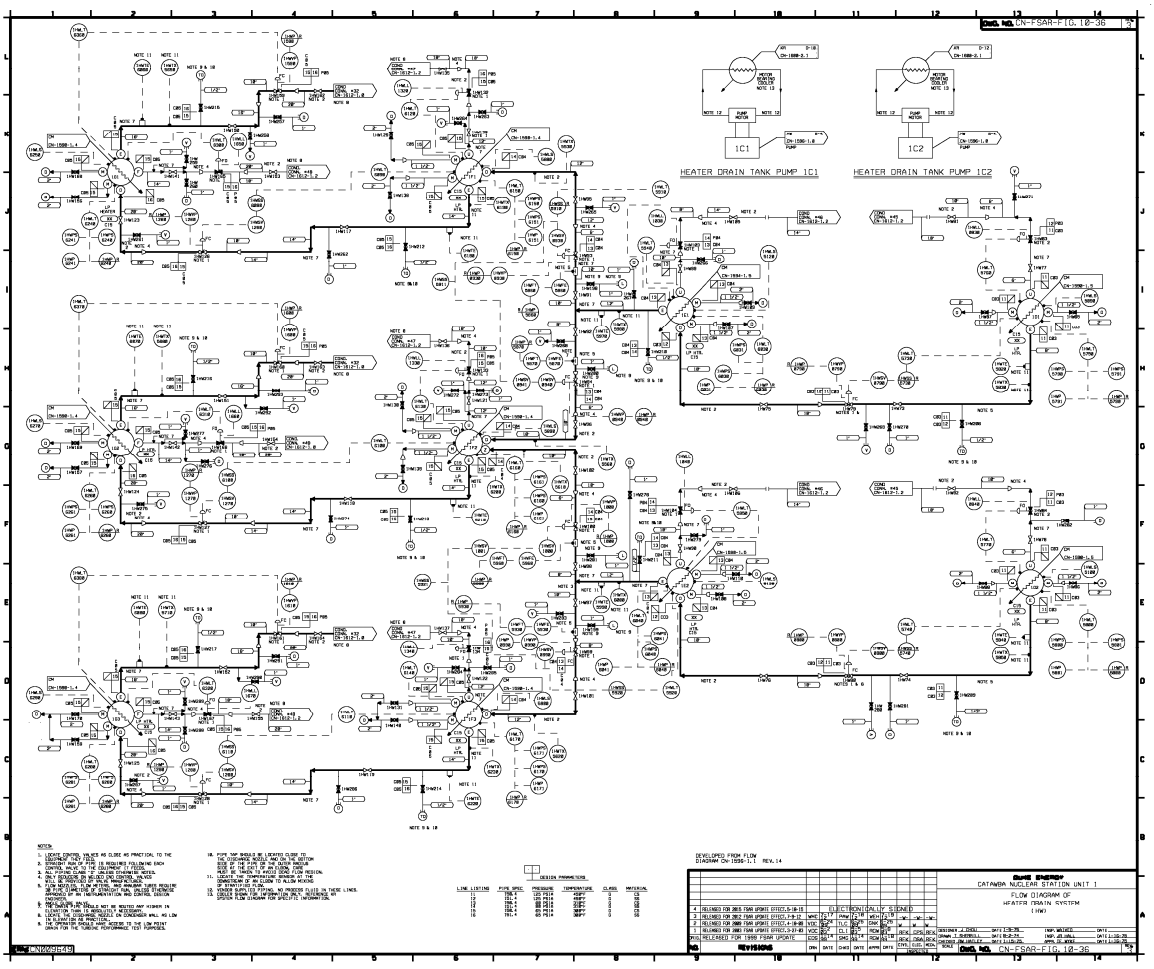
**Figure 10-34. Flow Diagram of Auxiliary Feedwater System**



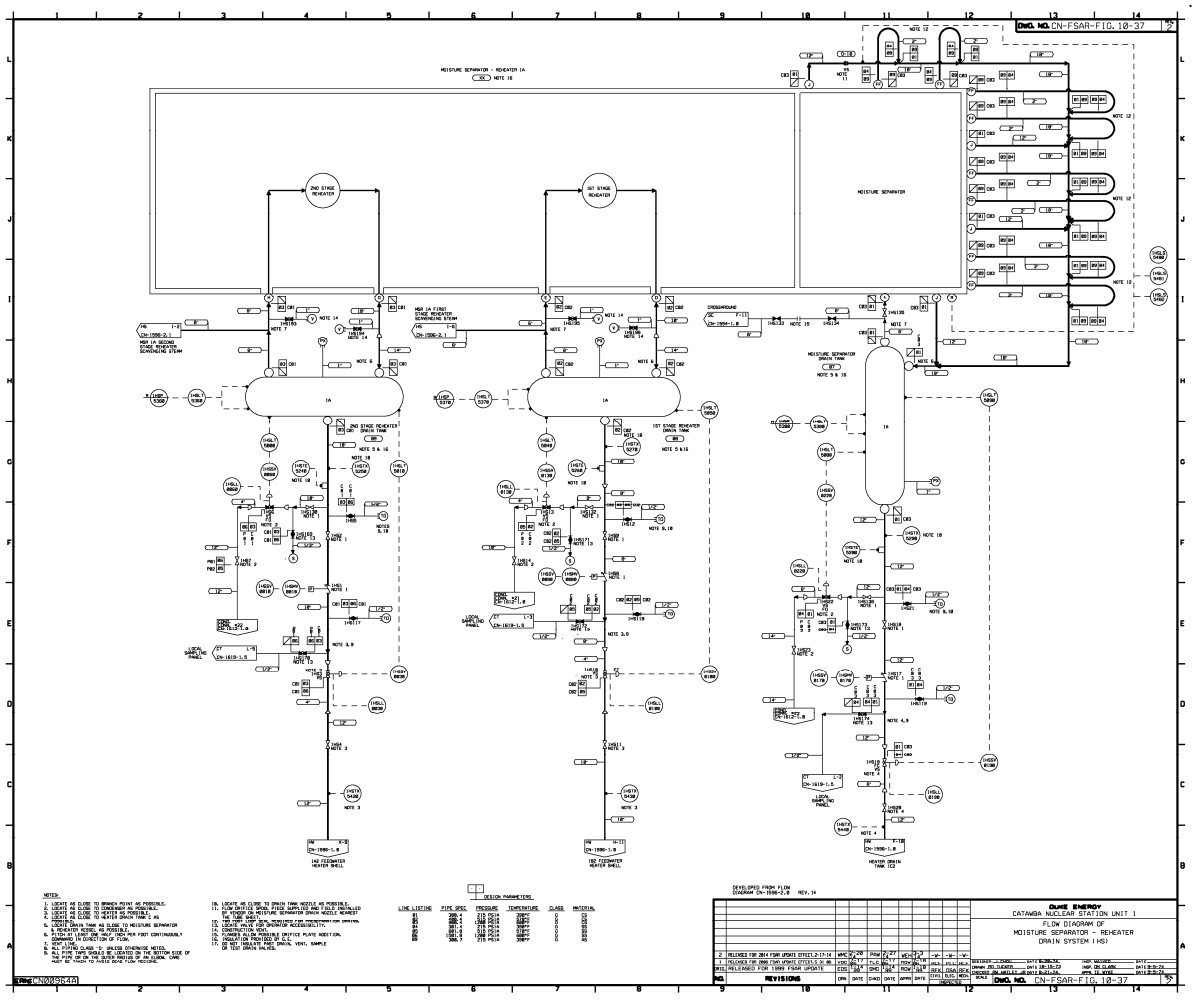
## Figure 10-35. Flow Diagram of Heater Drain System (HW)



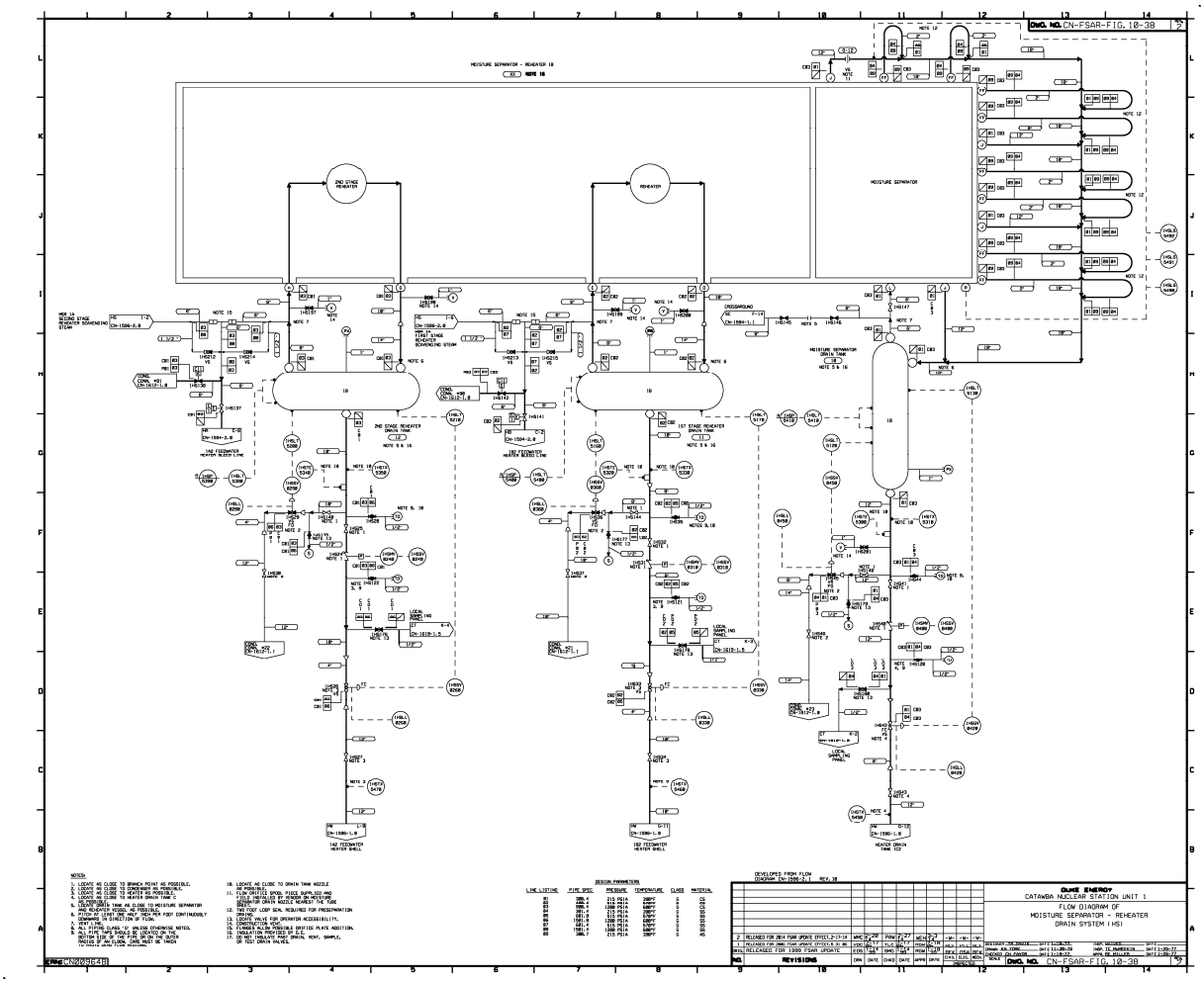
## Figure 10-36. Flow Diagram of Heater Drain System (HW)



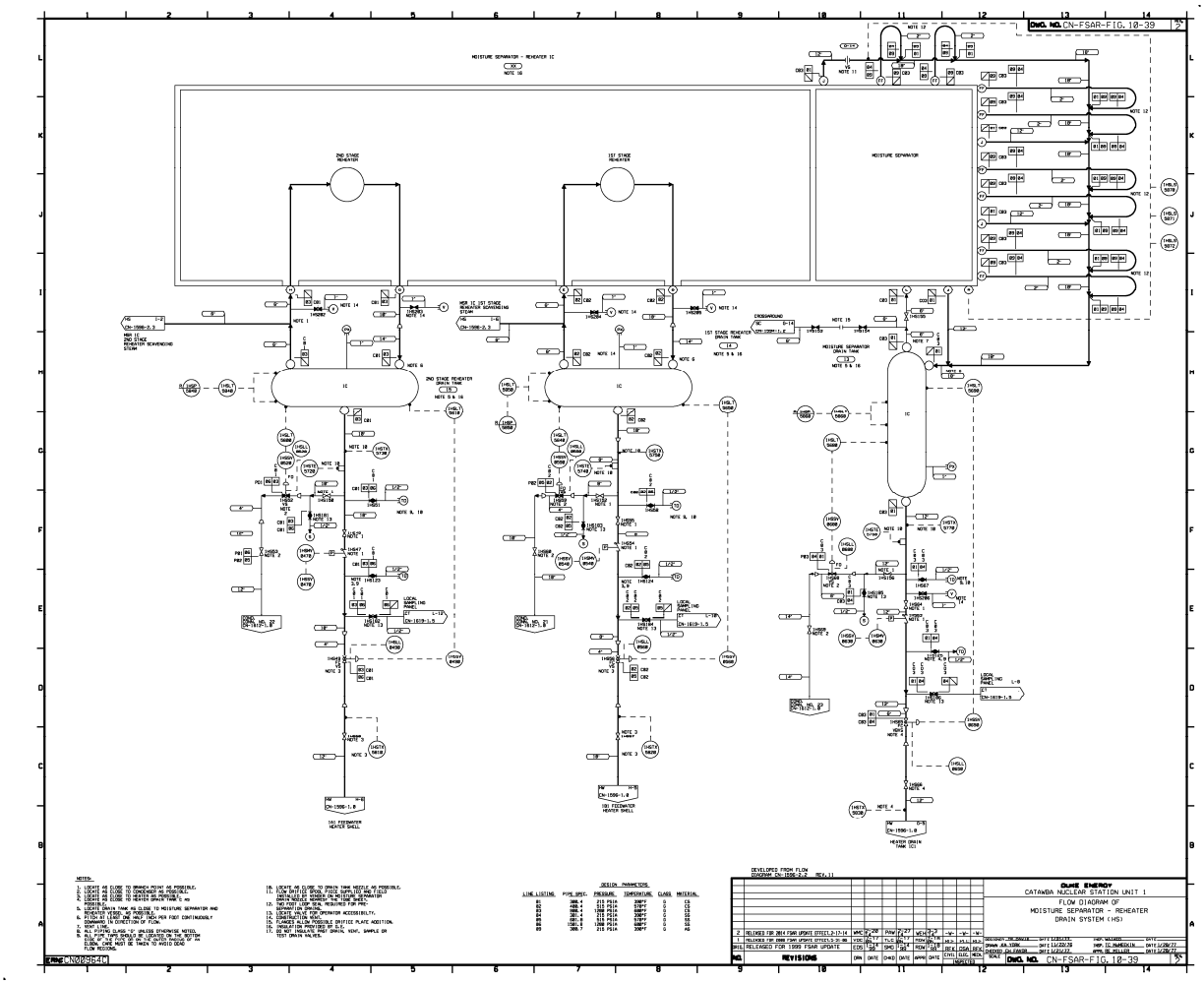
## Figure 10-37. Flow Diagram of Moisture Separator-Reheater Drain System (HS)



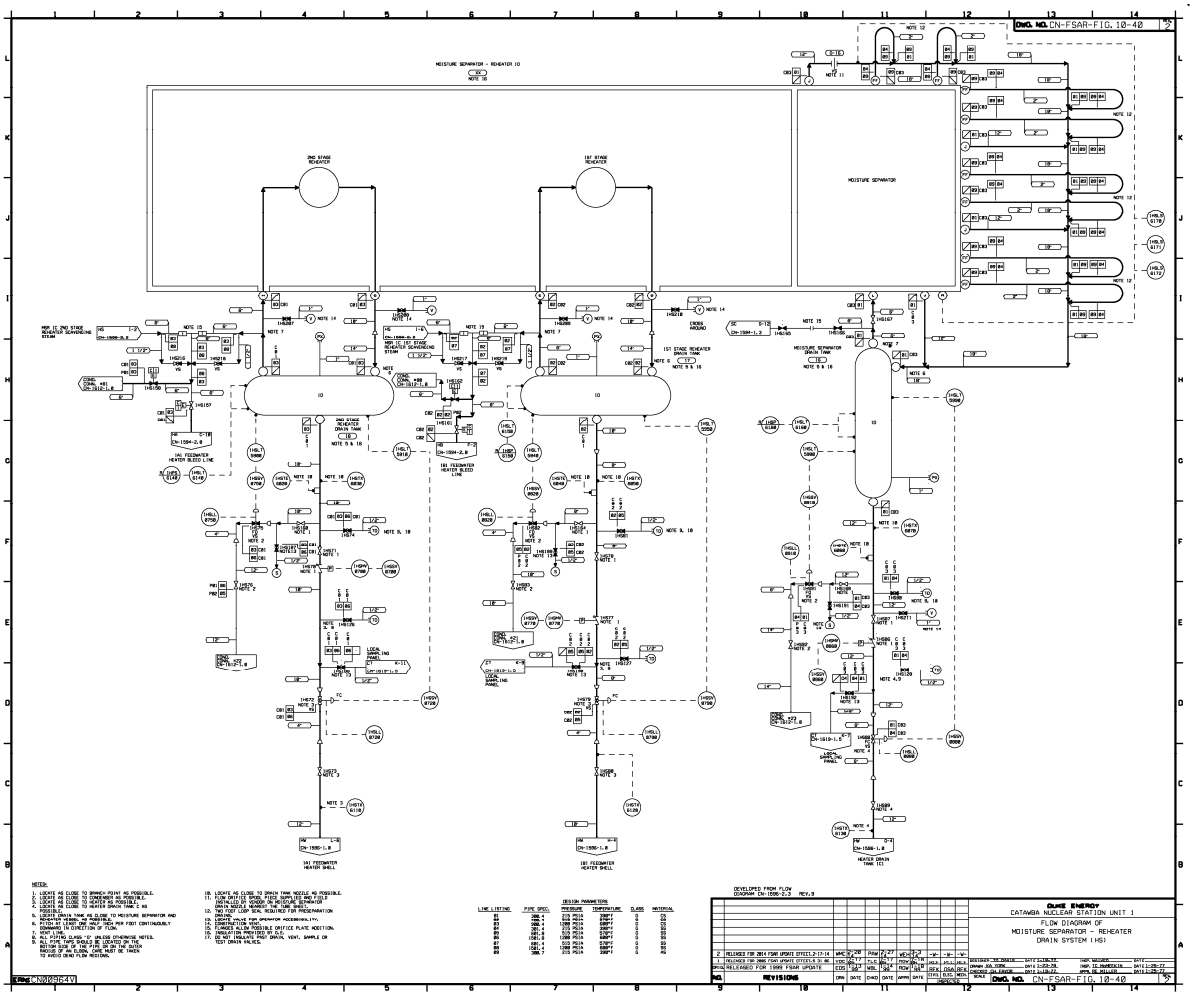
## Figure 10-38. Flow Diagram of Moisture Separator-Reheater Drain System (HS)



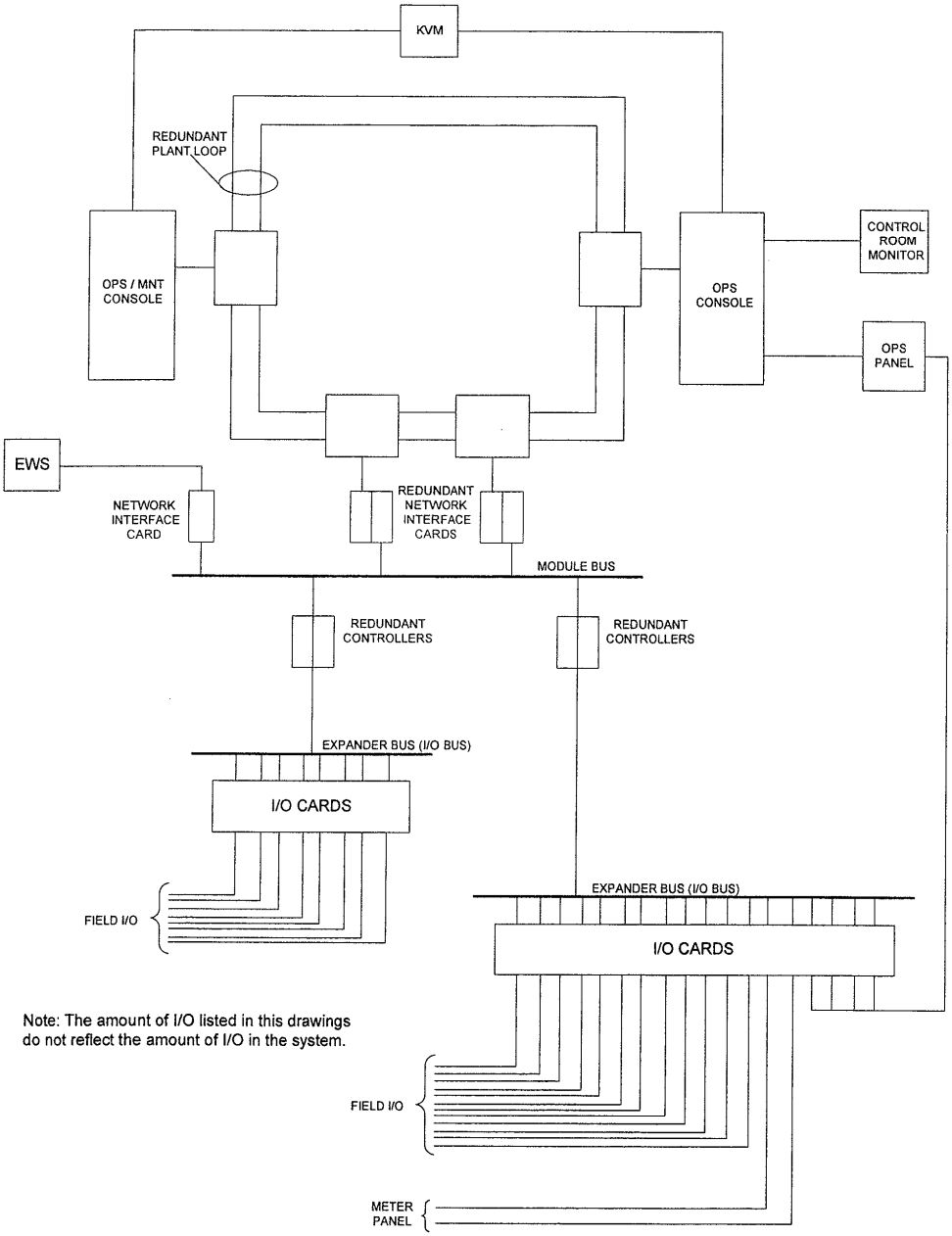
## Figure 10-39. Flow Diagram of Moisture Separator-Reheater Drain System (HS)



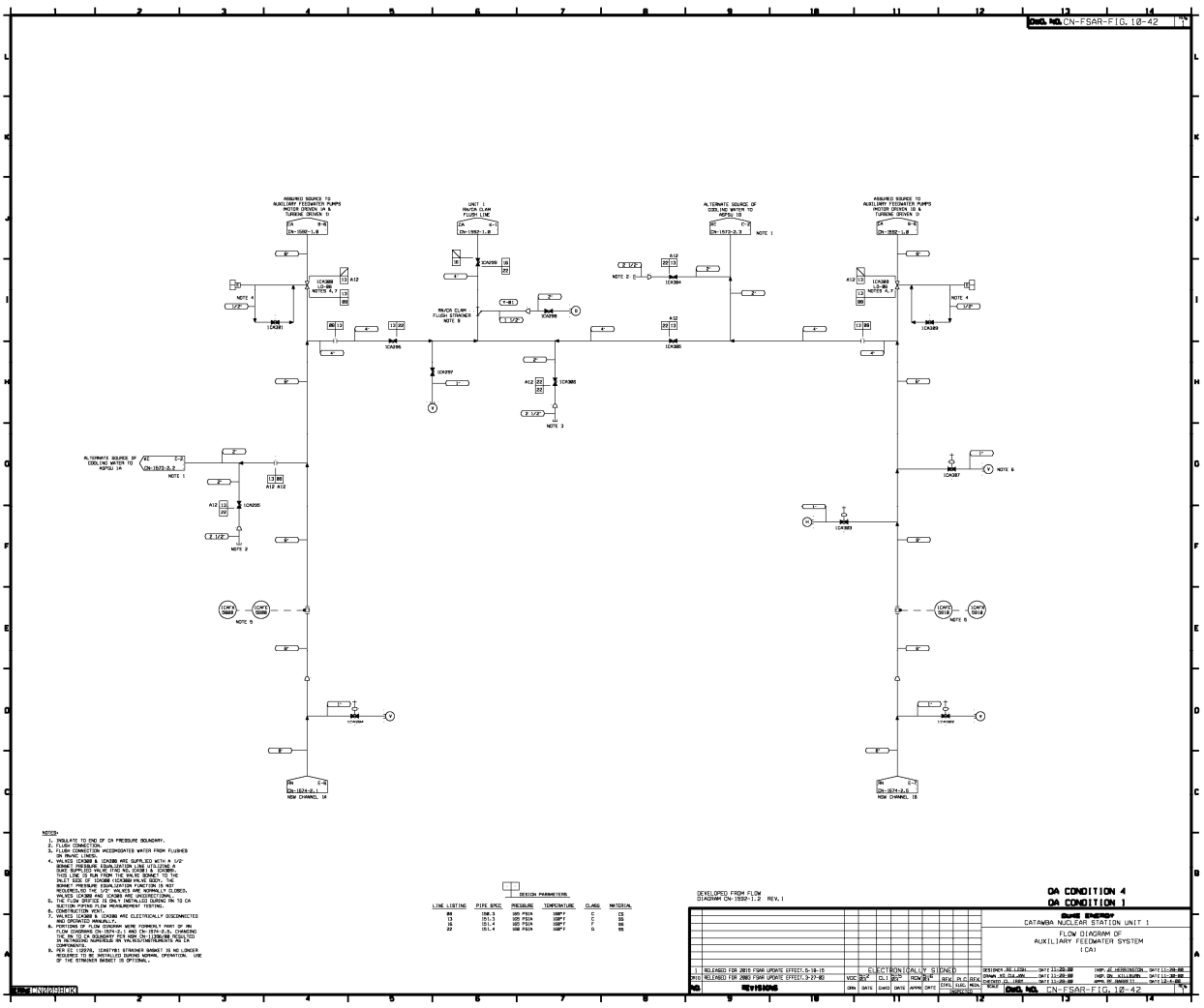
## Figure 10-40. Flow Diagram of Moisture Separator-Reheater Drain System (HS)



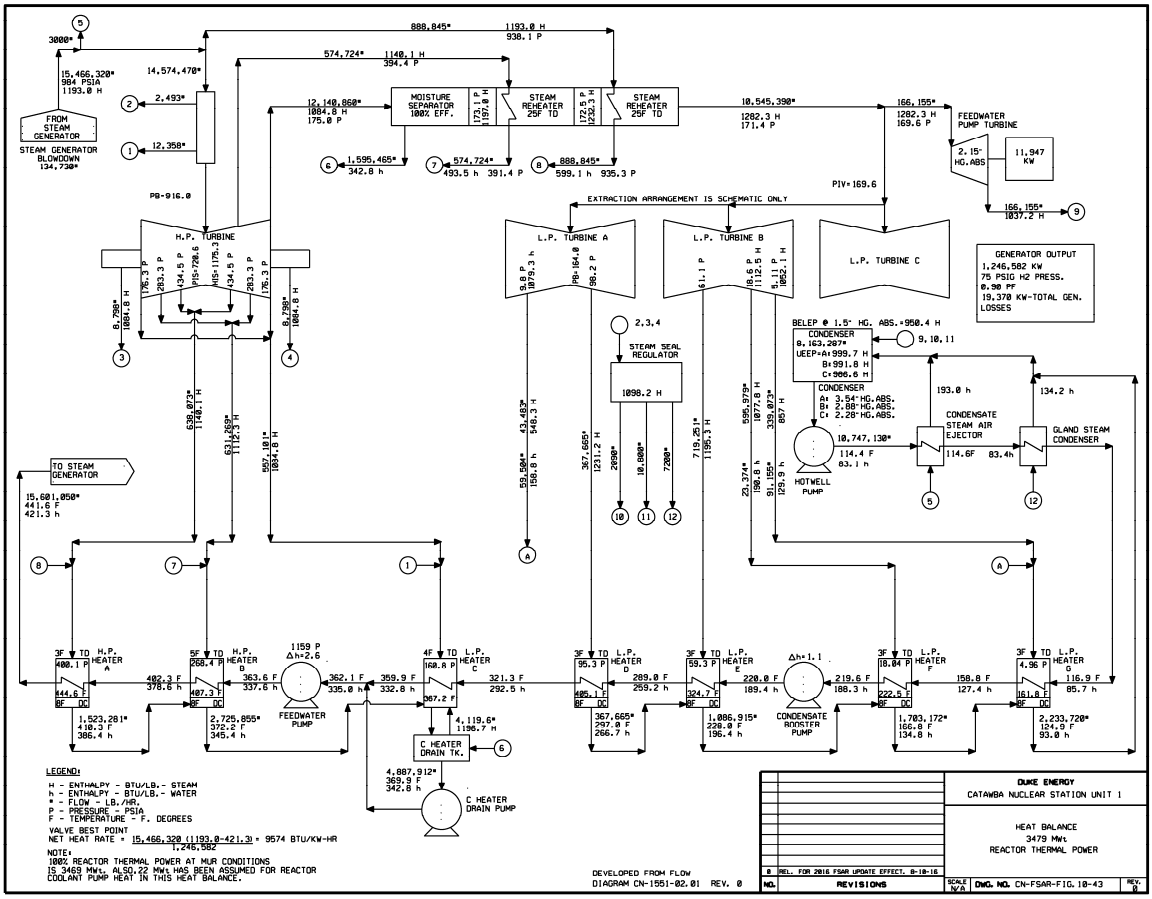
## Figure 10-41. System Overview of the Turbine Control System



## Figure 10-42. Flow Diagram of Auxiliary Feedwater System



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



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