

## Appendix 5B. Figures

Figure 5-1. Reactor Coolant System (Unit 1)

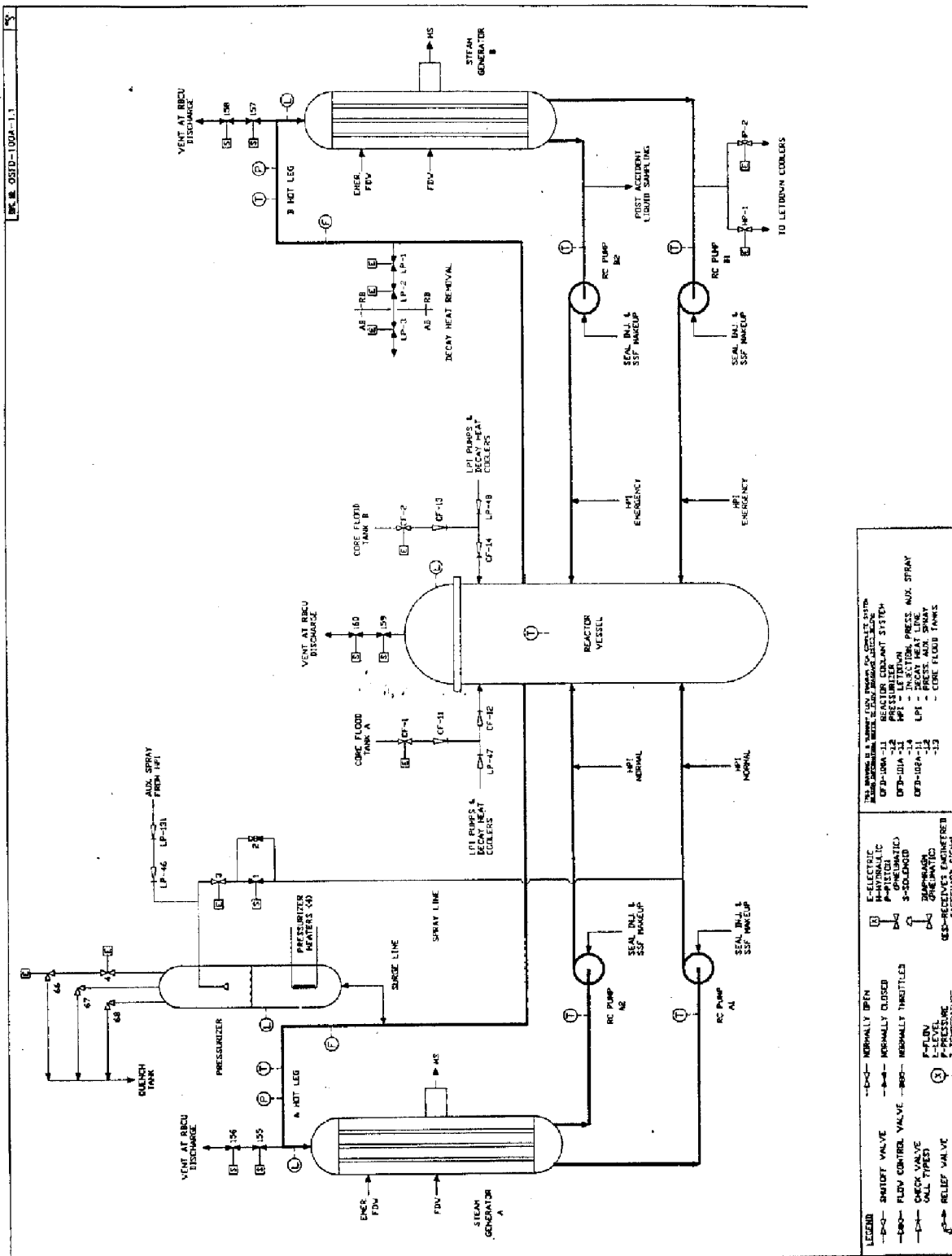


Figure 5-2. Reactor Coolant System (Units 2 & 3)

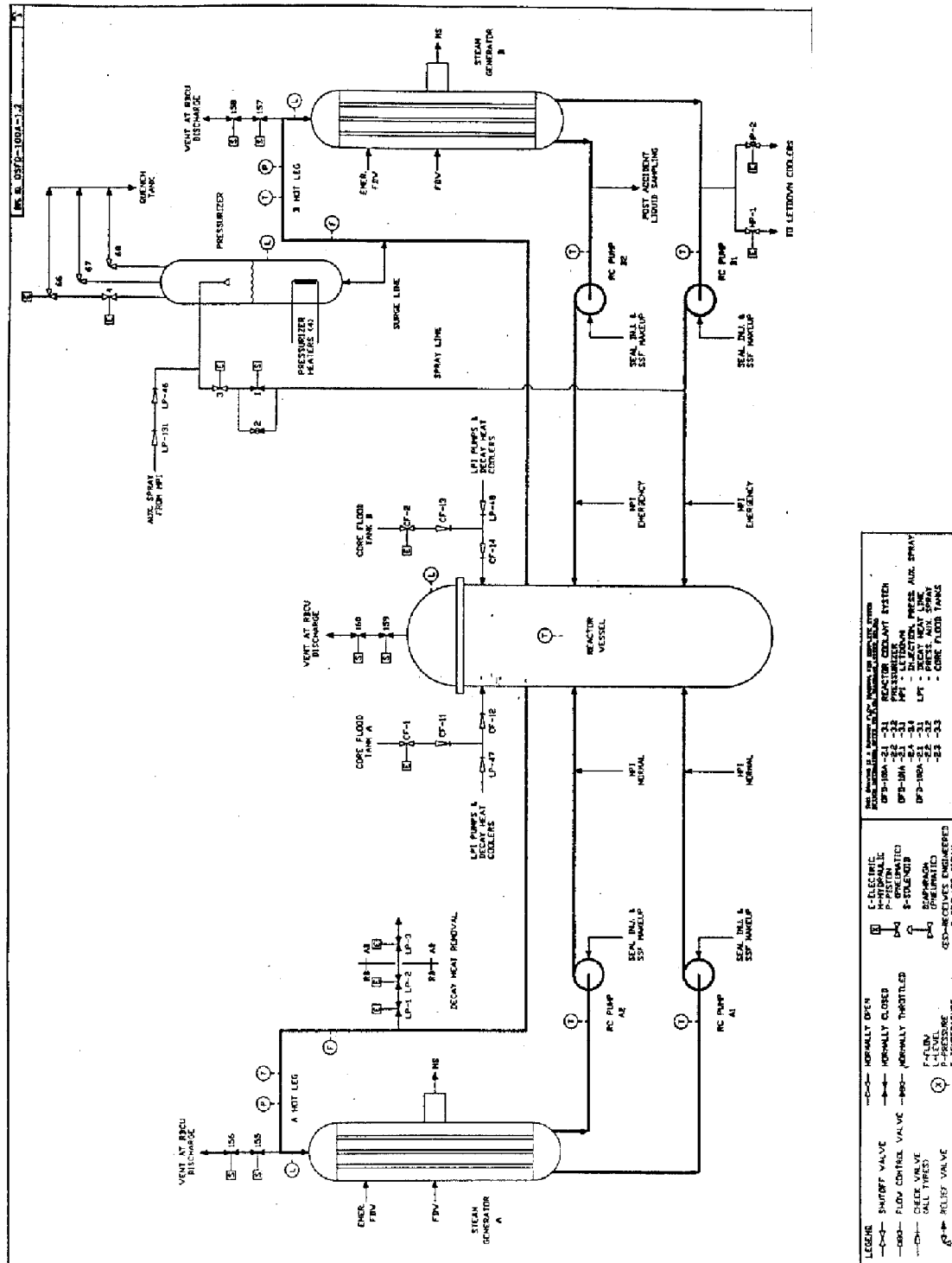
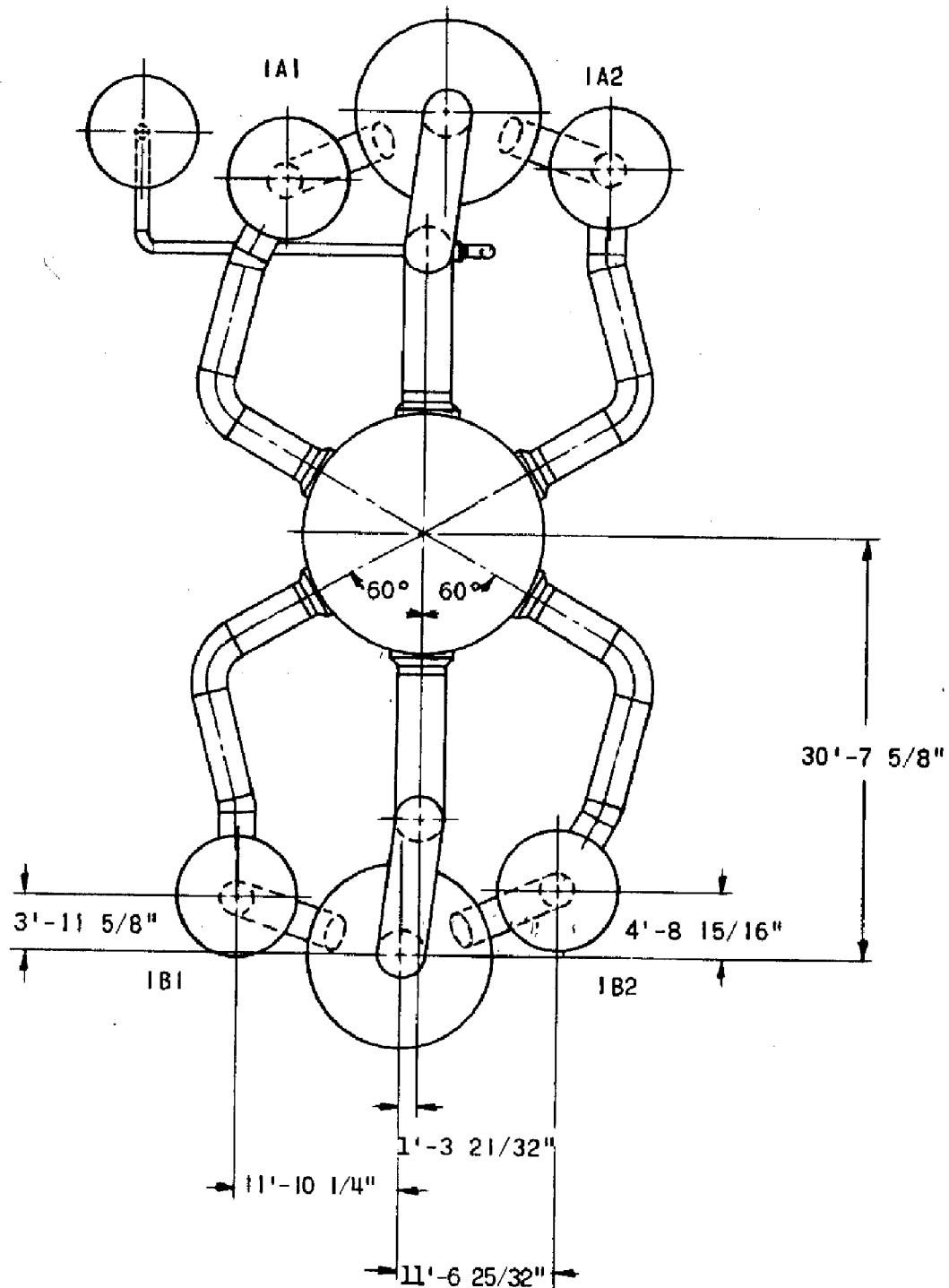


Figure 5-3. Reactor Coolant System, Arrangement Plan (Unit 1)



(31 DEC 2000)

**Figure 5-4. Reactor Coolant System, Arrangement Elevation (Unit 1)**

Security Related Information  
Figure withheld Under 10 CFR 2.390

Figure 5-5. Reactor Coolant System, Arrangement Plan (Unit 2)

Security Related Information  
Figure withheld Under 10 CFR 2.390

Figure 5-6. Reactor Coolant System, Arrangement Elevation (Unit 2)

Security Related Information  
Figure withheld Under 10 CFR 2.390

**Figure 5-7. Reactor Coolant System, Arrangement Plan (Unit 3)**

Security Related Information  
Figure withheld Under 10 CFR 2.390



**Figure 5-8. Reactor Coolant System, Arrangement Elevation (Unit 3)**

Security Related Information  
Figure withheld Under 10 CFR 2.390

**Figure 5-9. Reactor and Steam Temperatures versus Reactor Power.(Replacement Steam Generator)**

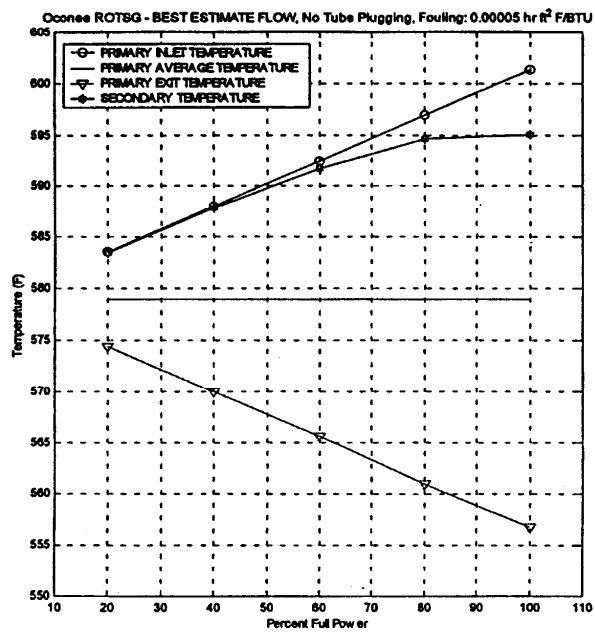


Figure 5-10. Points of Stress Analysis for Reactor Vessel

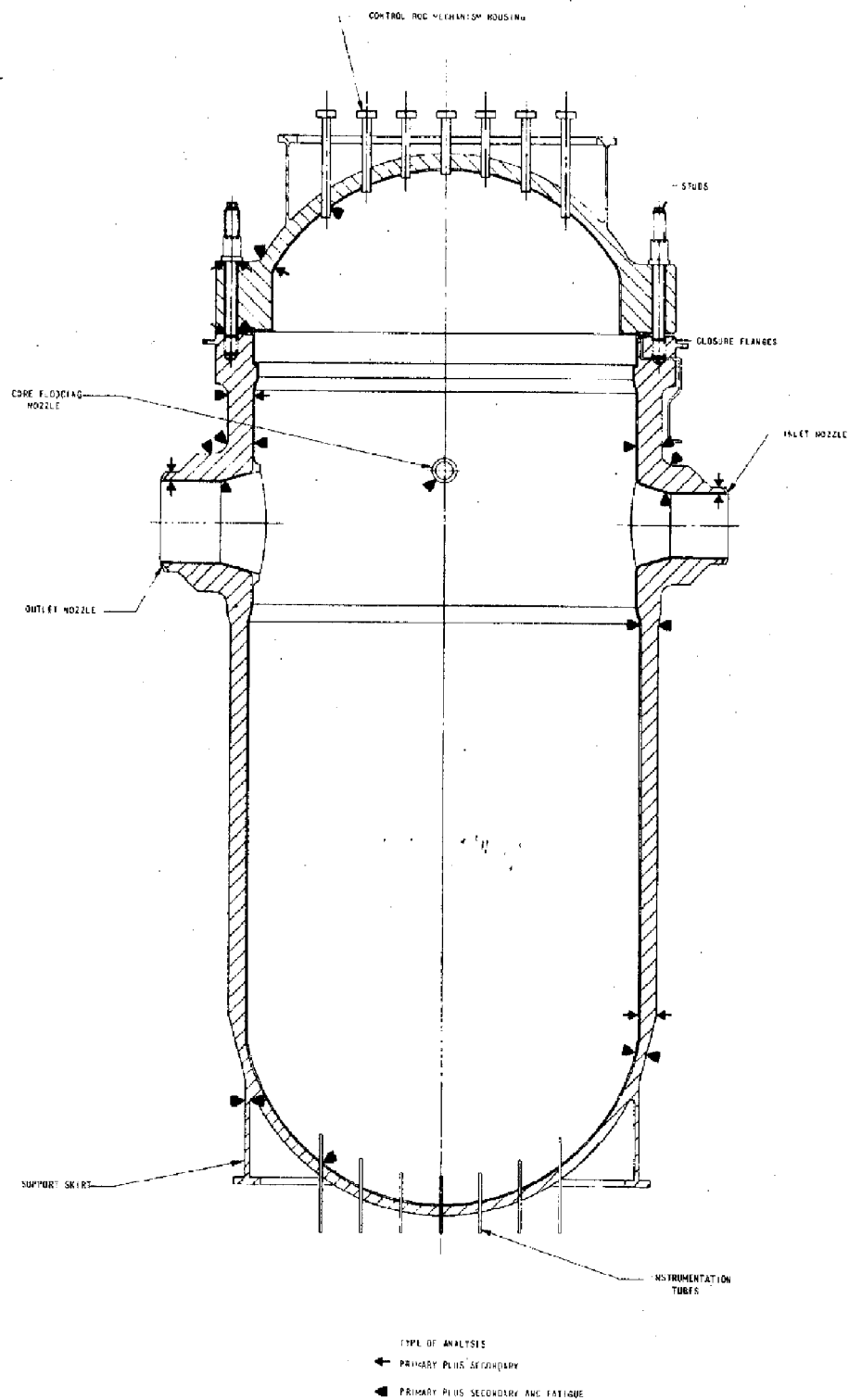
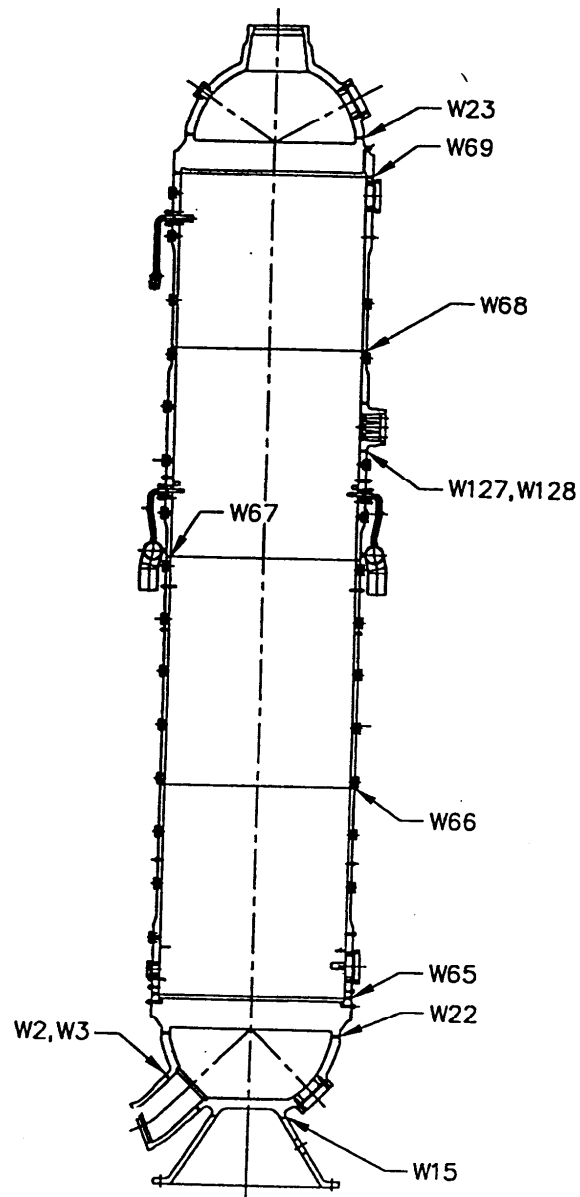


Figure 5-11. Location of Replacement Steam Generator Weld



**Figure 5-12. Deleted Per 1991 Update**

**Figure 5-13. Deleted Per 1991 Update**

Figure 5-14. Reactor Vessel Outline (Unit 1). (Shown with original reactor vessel head)

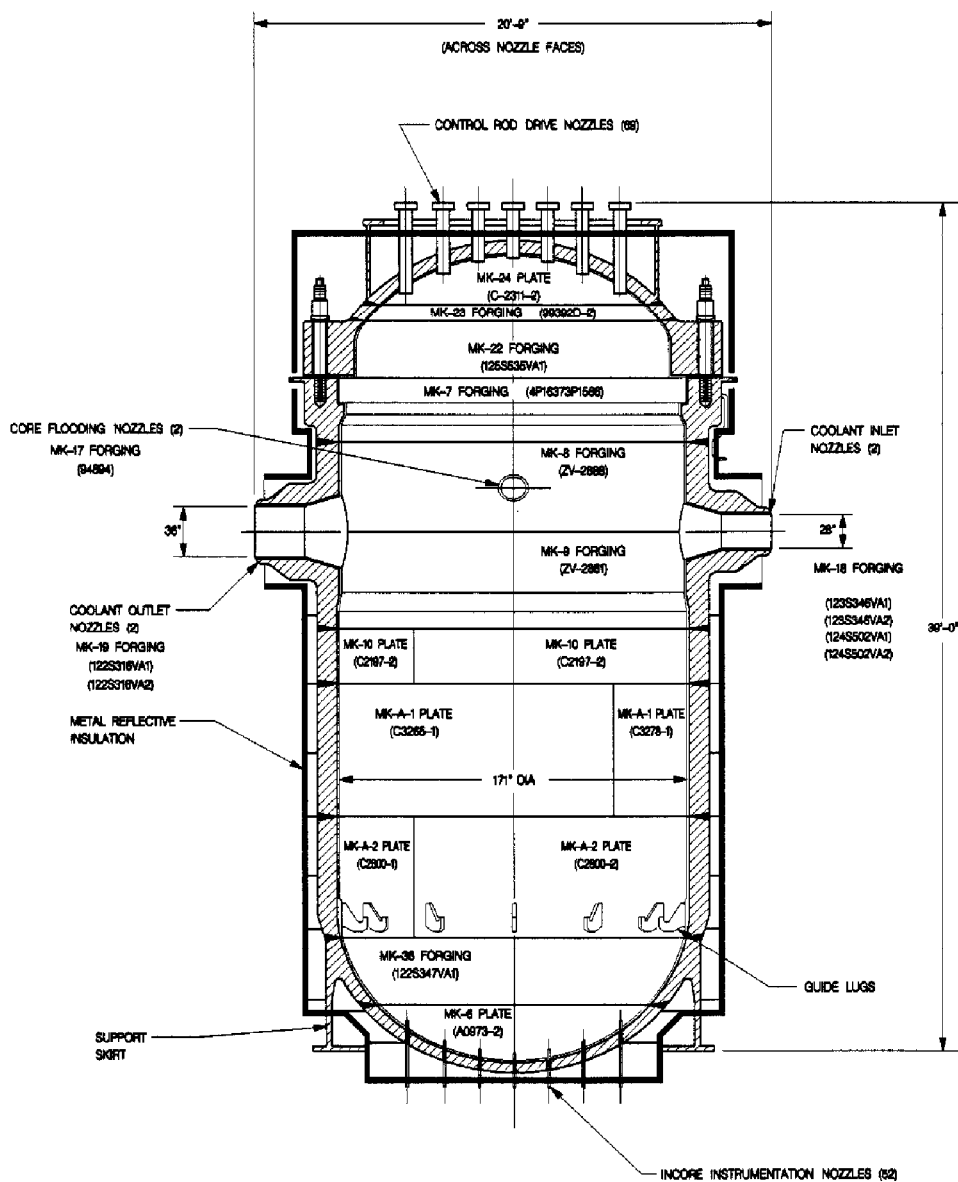


Figure 5-15. Reactor Vessel Outline (Unit 2). (Shown with original reactor vessel head)

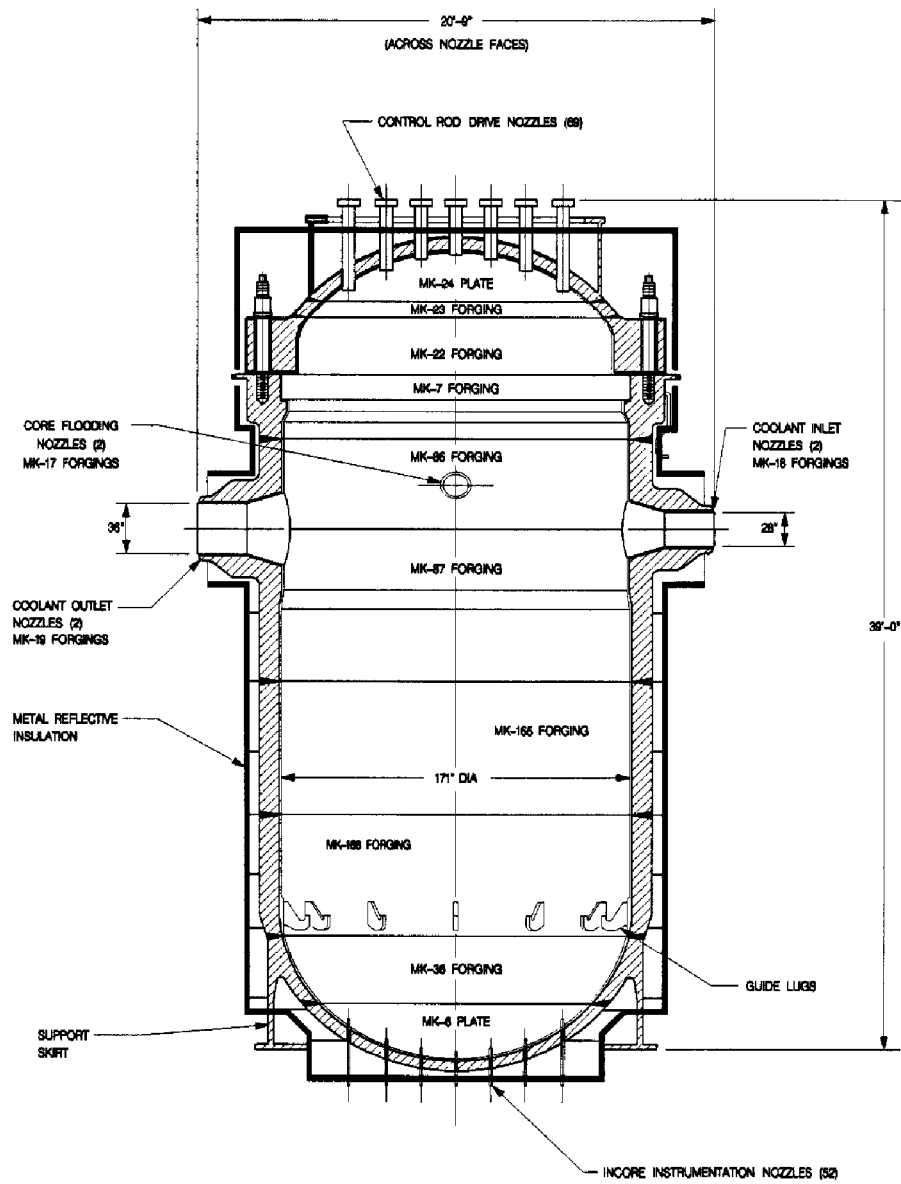




Figure 5-16. Reactor Vessel Outline (Unit 3). (Shown with original reactor vessel head)

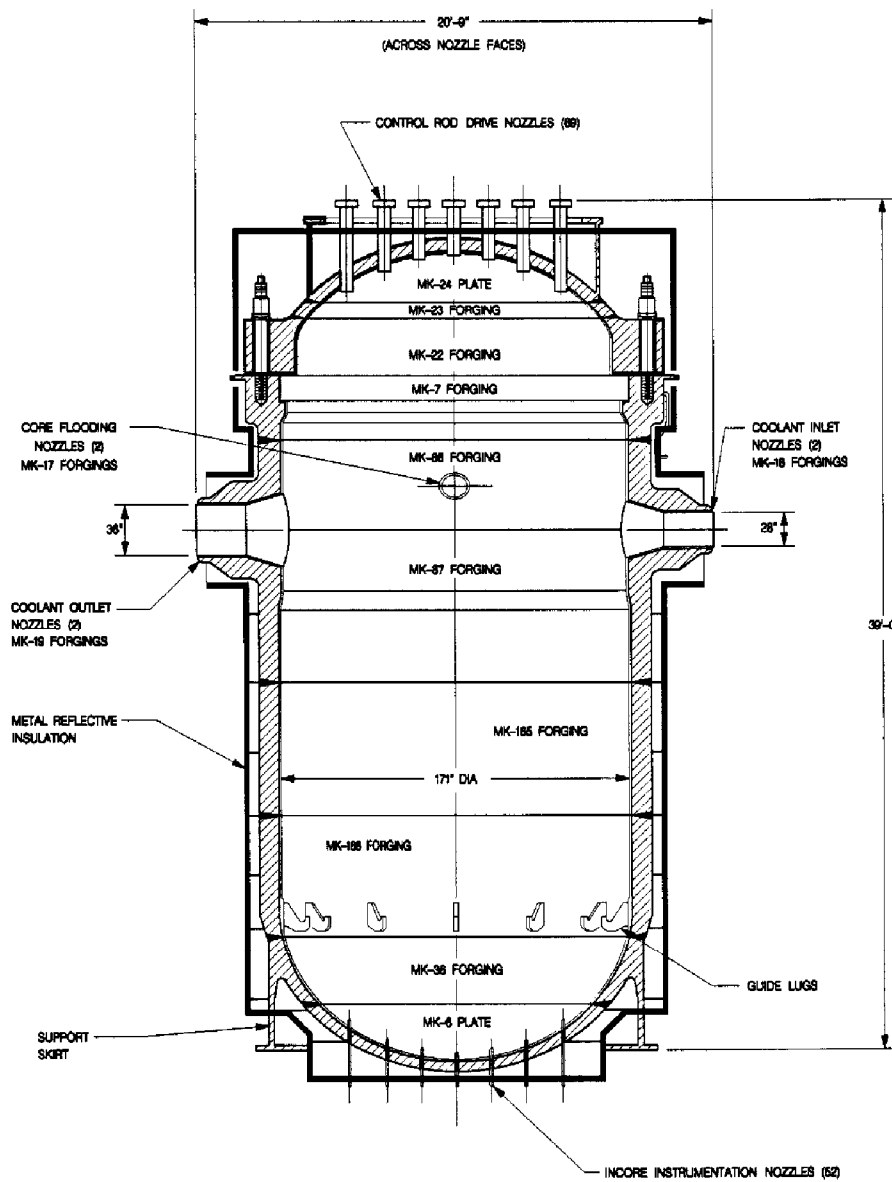


Figure 5-17. Reactor Coolant Controlled Leakage Pump (Unit 1)

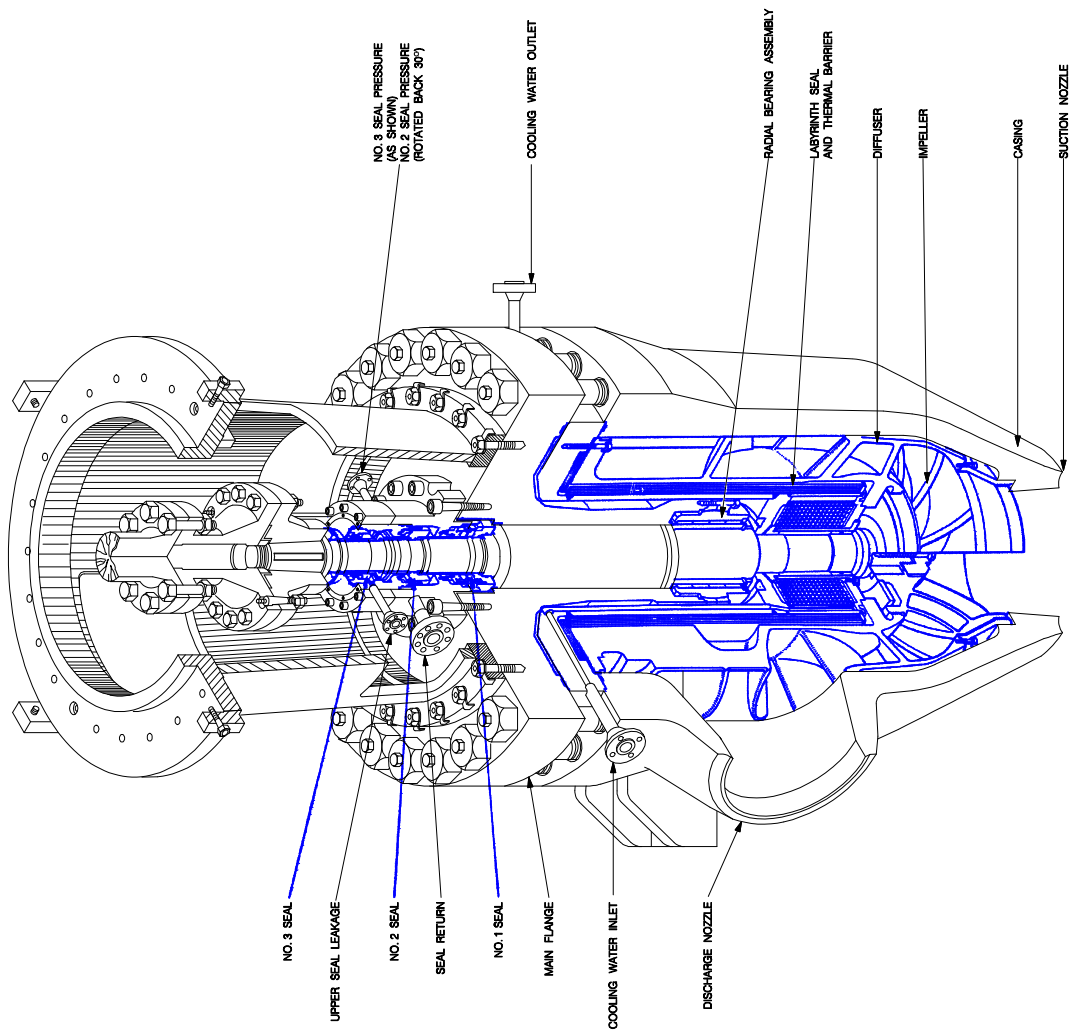


Figure 5-18. Reactor Coolant Pump Estimated Performance Characteristic (Unit 1)

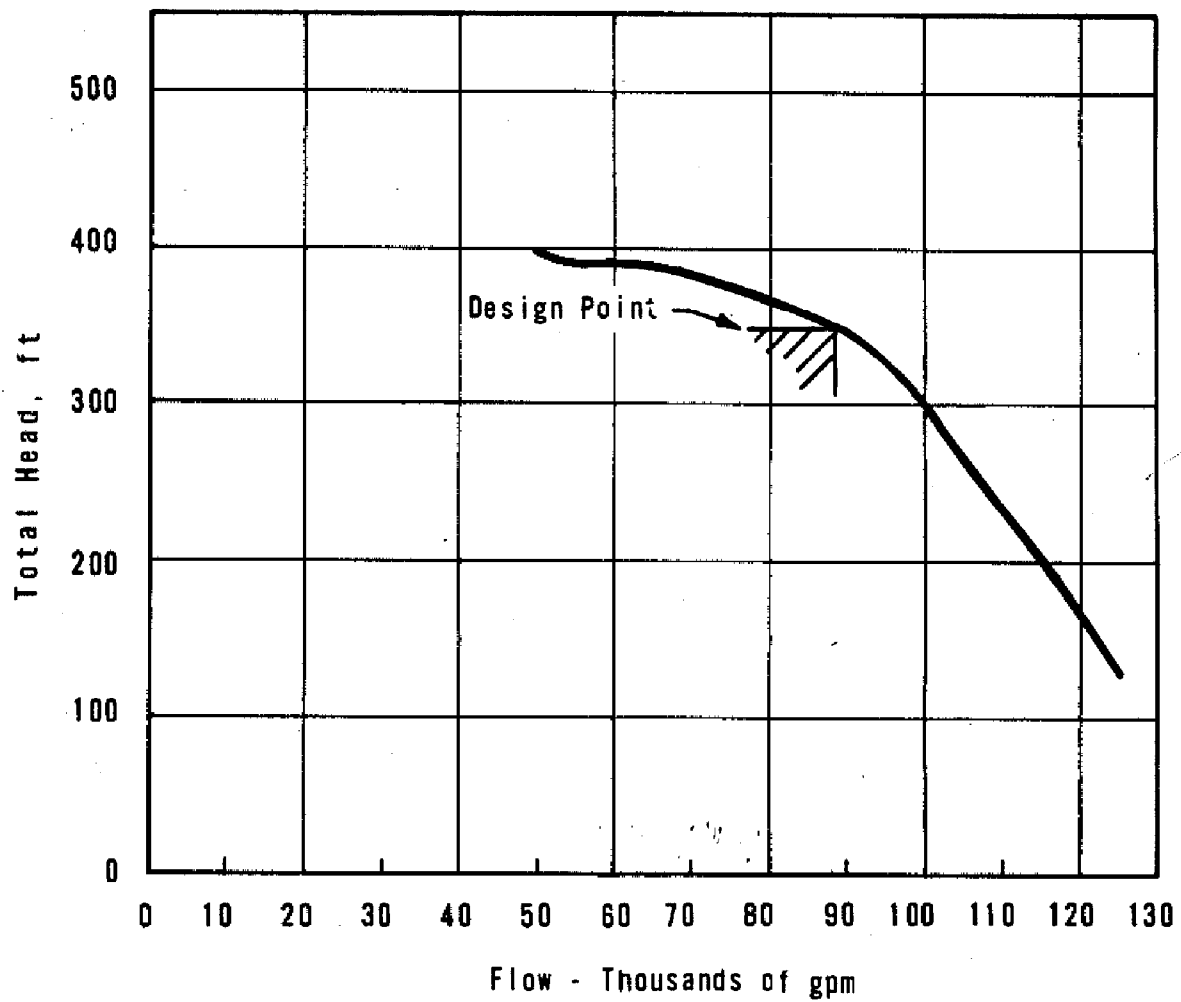


Figure 5-19. Reactor Coolant Pump (Units 2, 3)

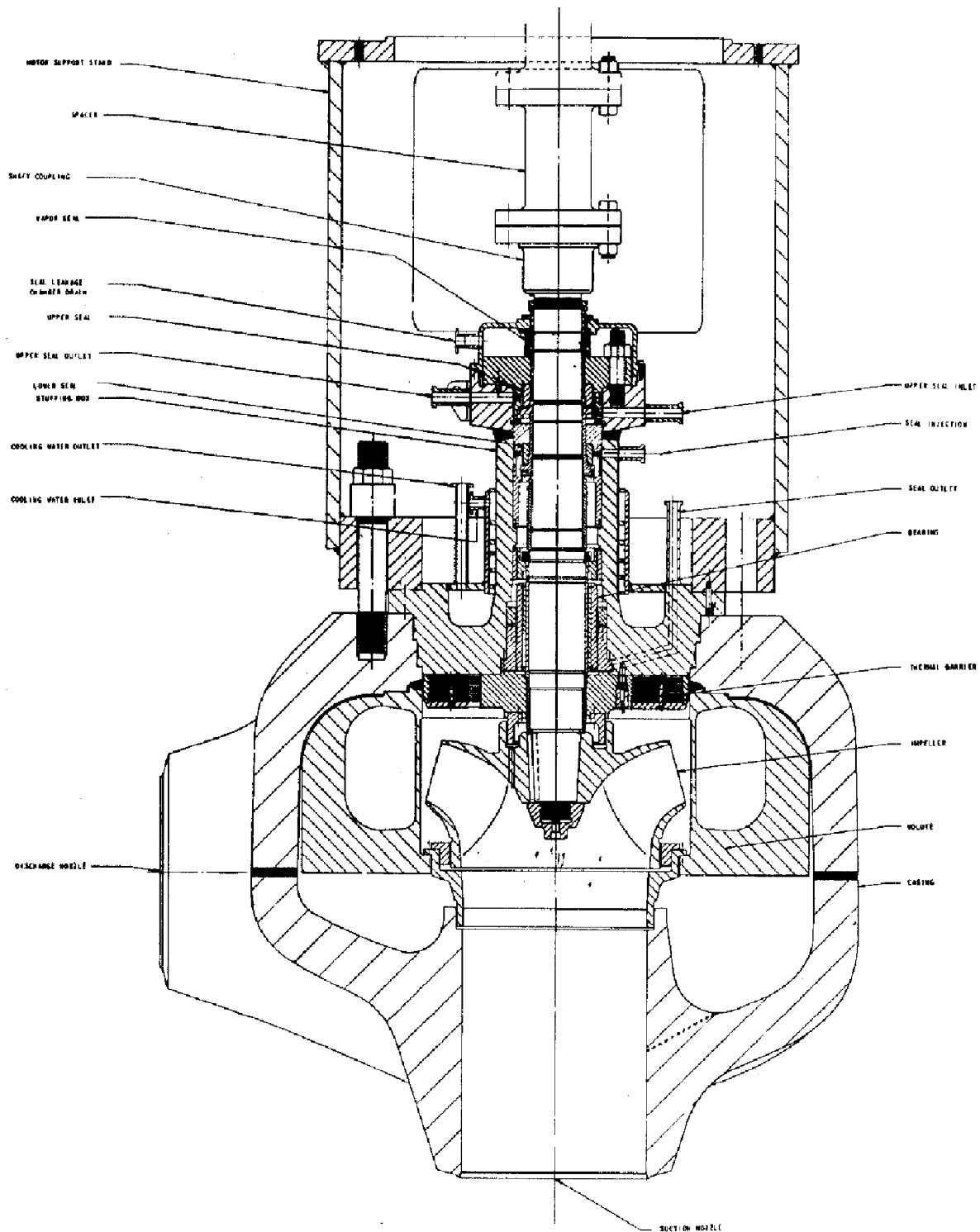


Figure 5-20. Reactor Coolant Pump Estimated Performance Characteristic (Units 2, 3)

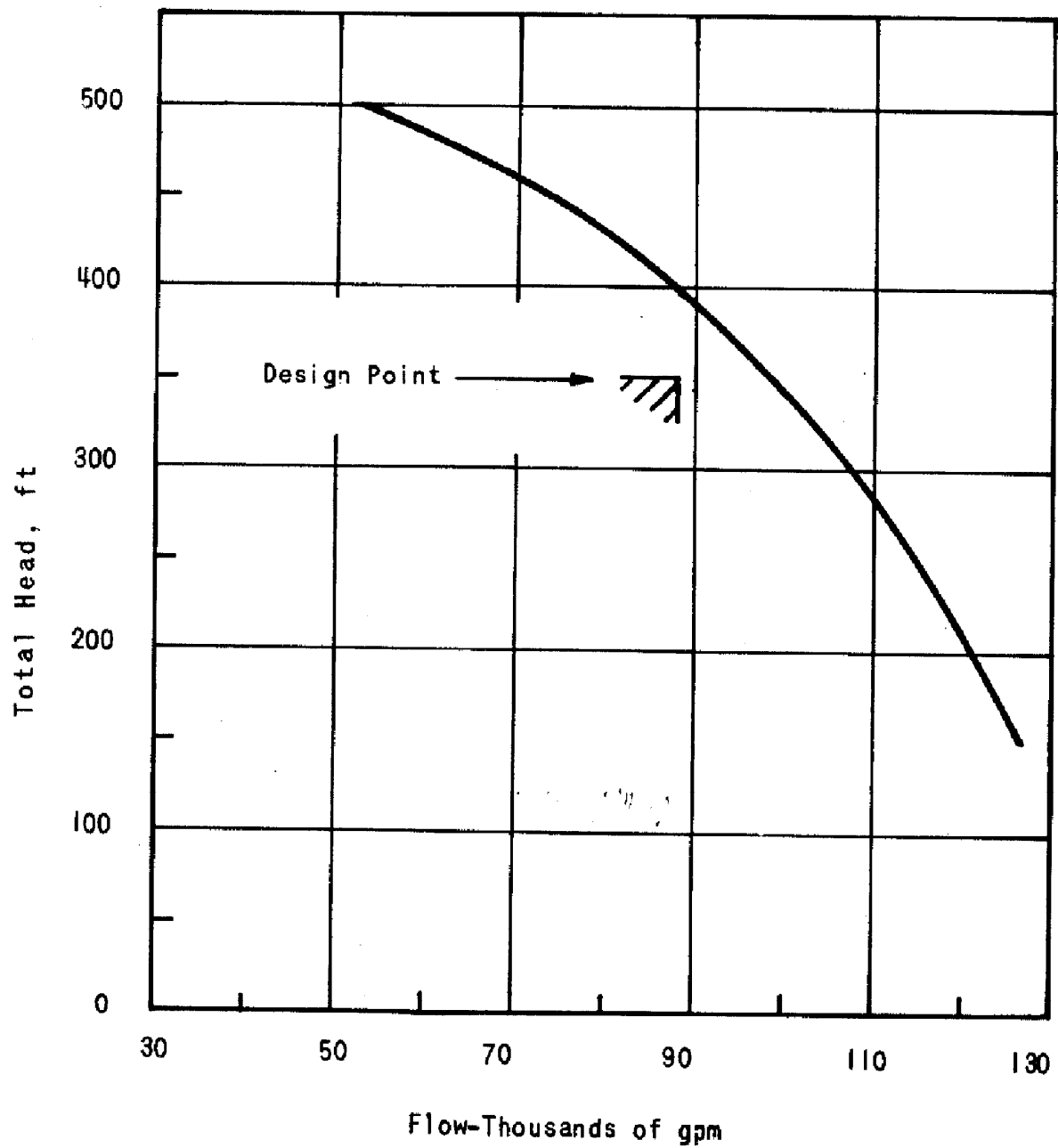
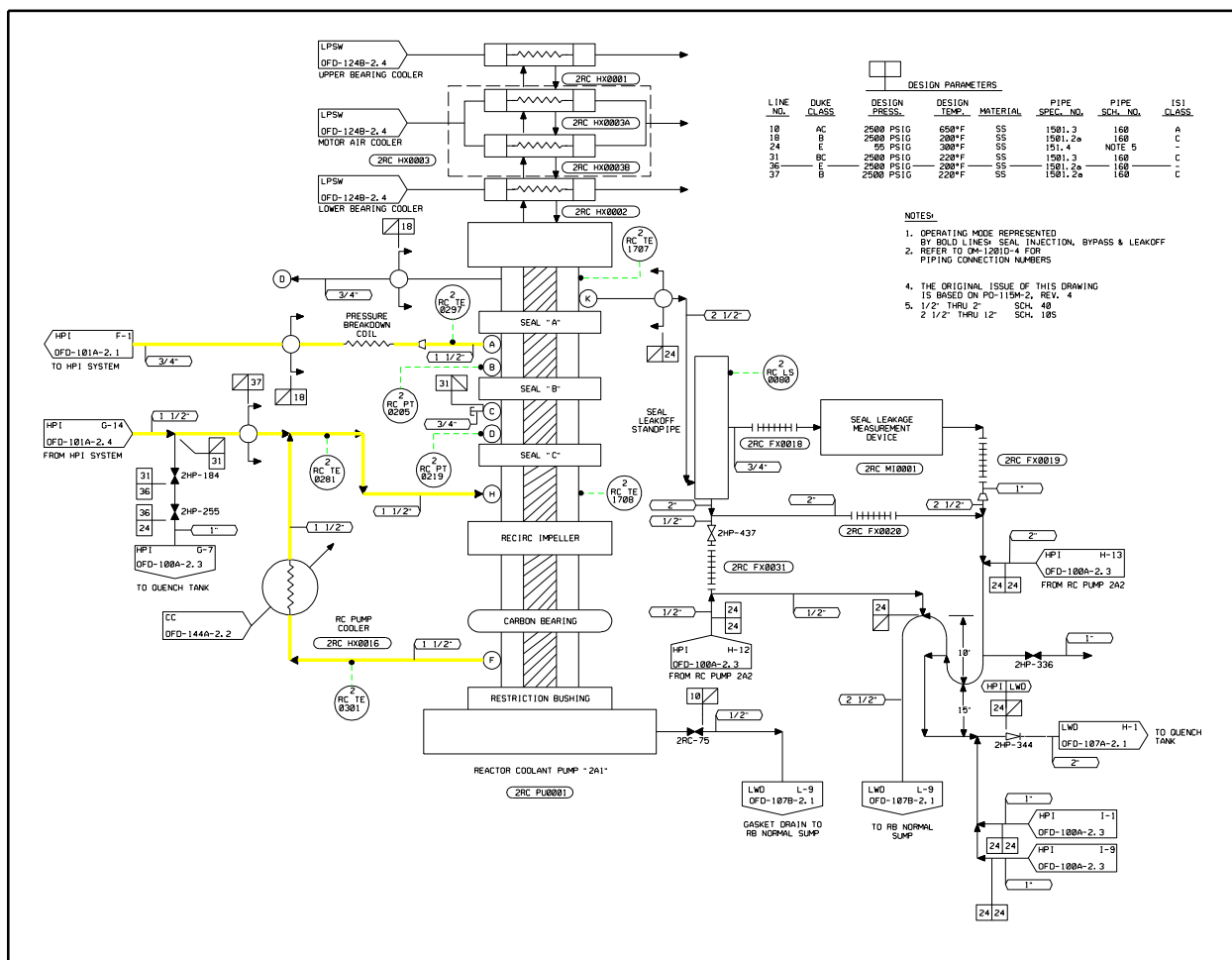
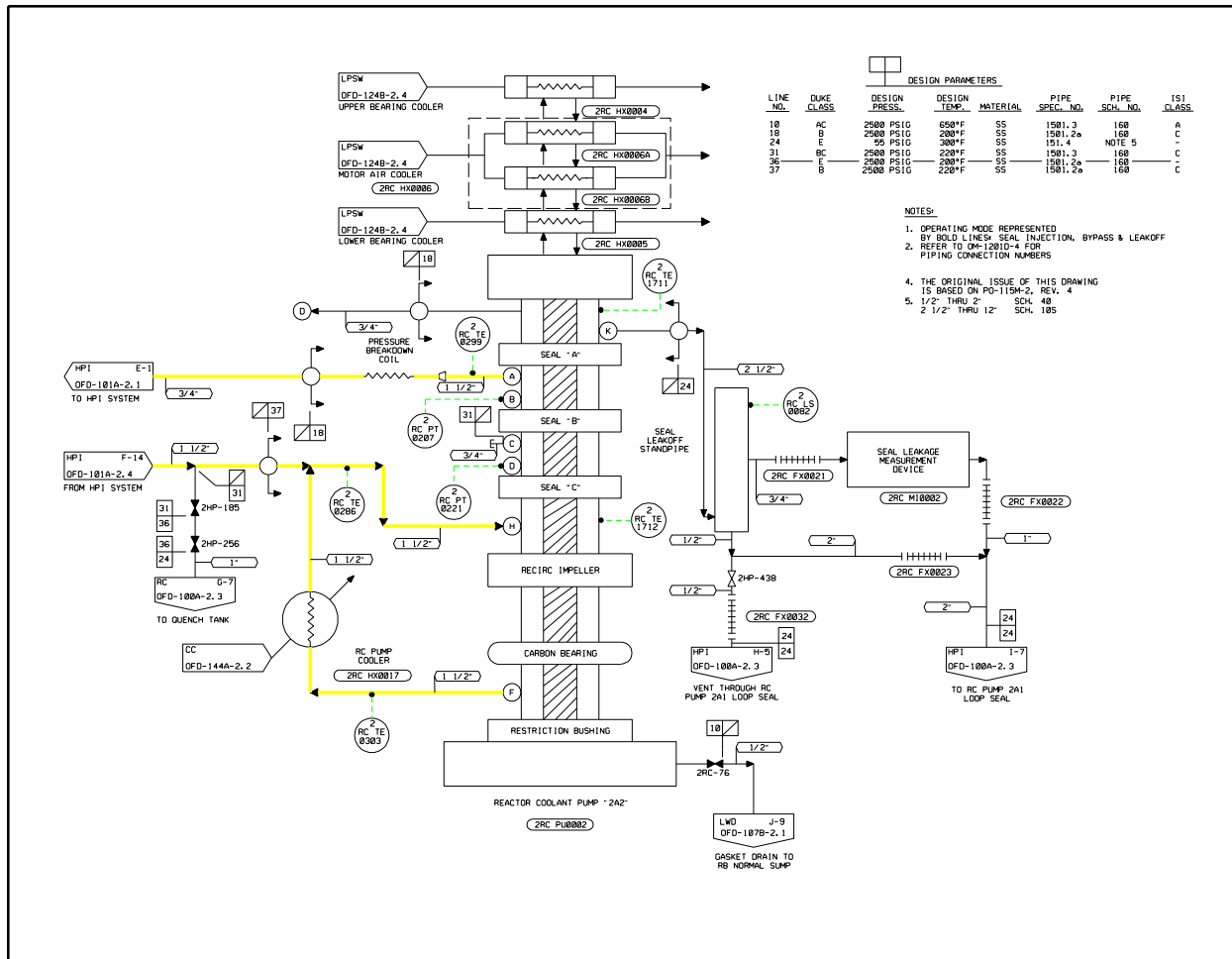


Figure 5-21. Flow Diagram of Bingham Reactor Coolant Pump-Piping Diagram





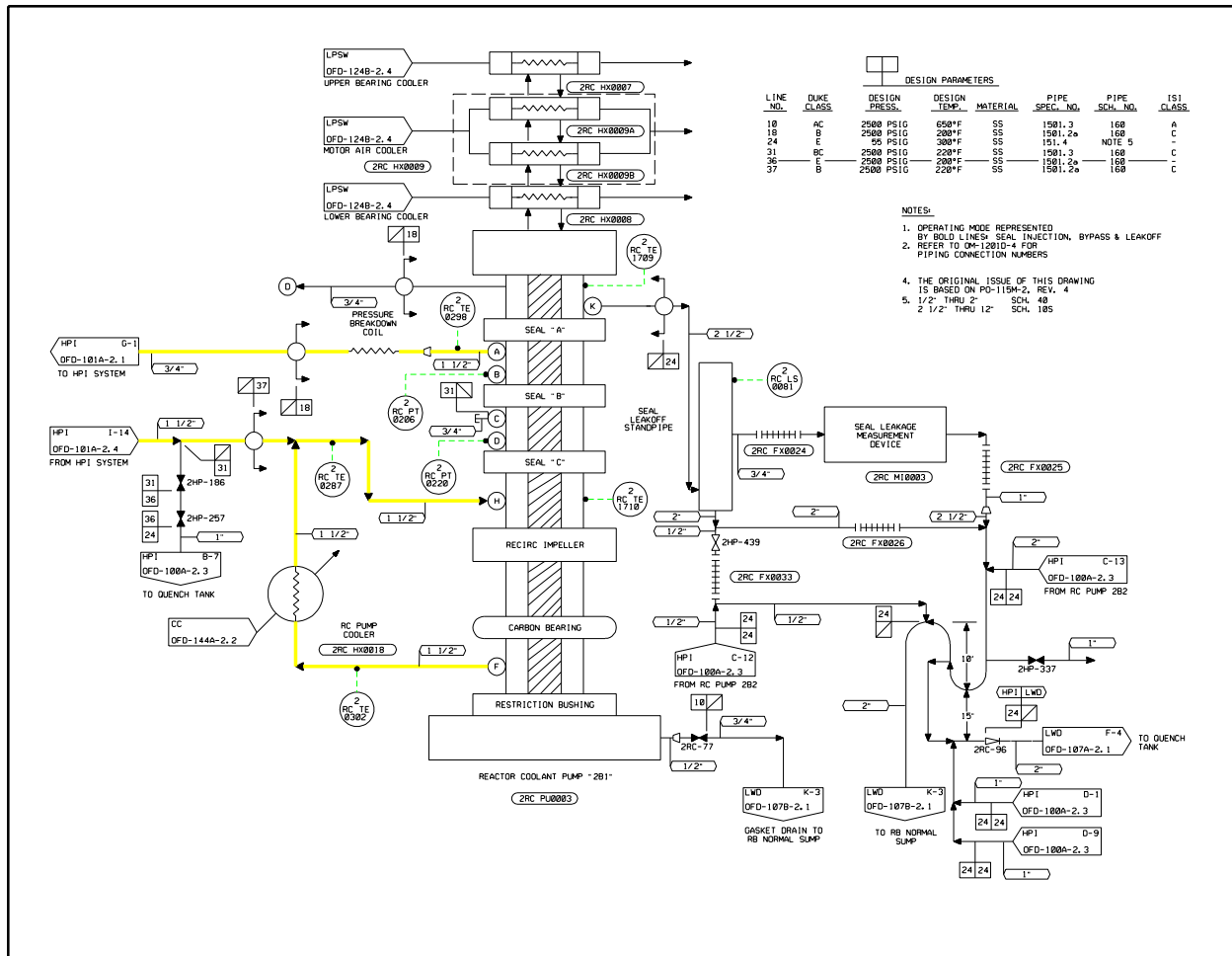
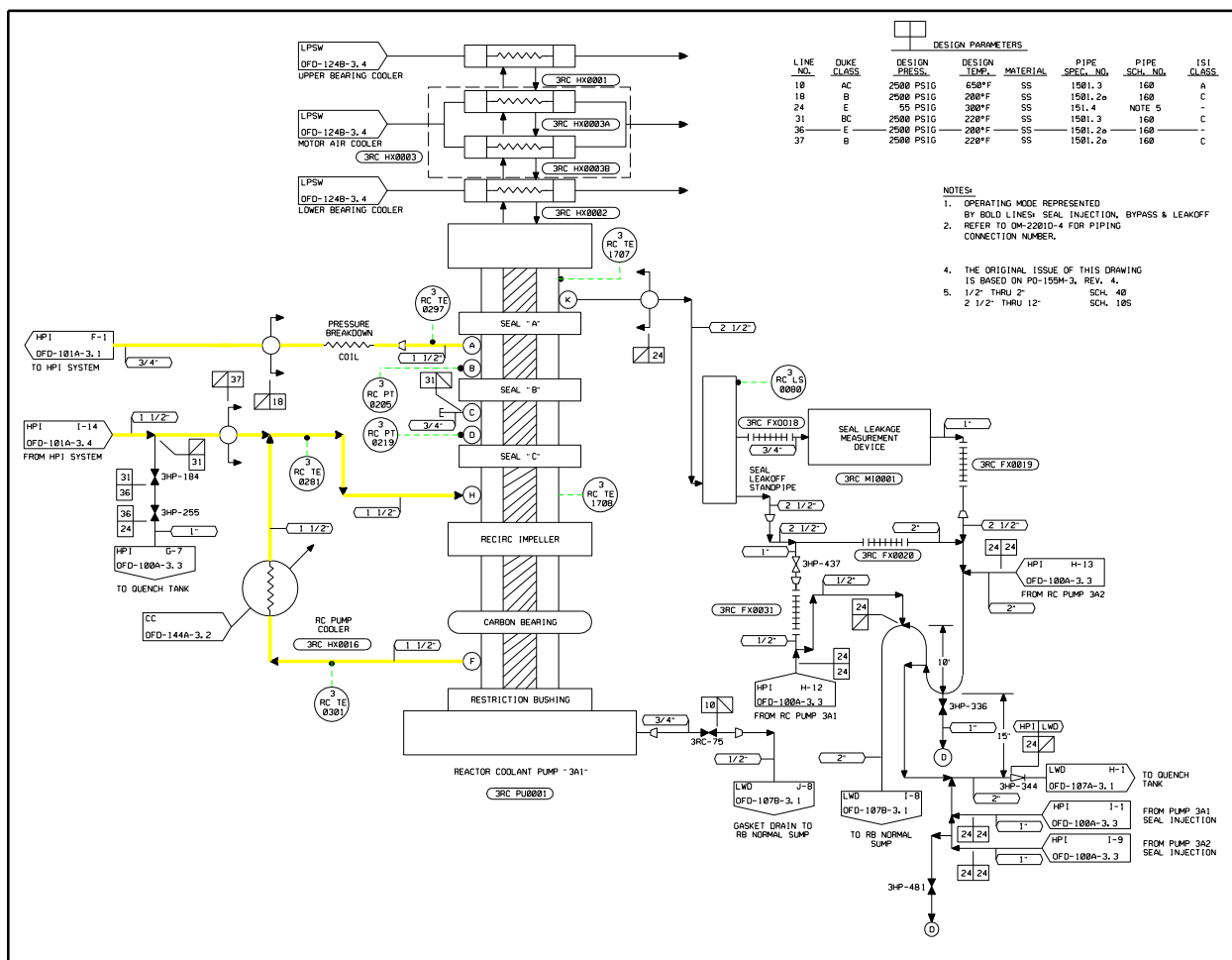






Figure 5-22. Flow Diagram of Bingham Reactor Coolant Pump-Piping Diagram





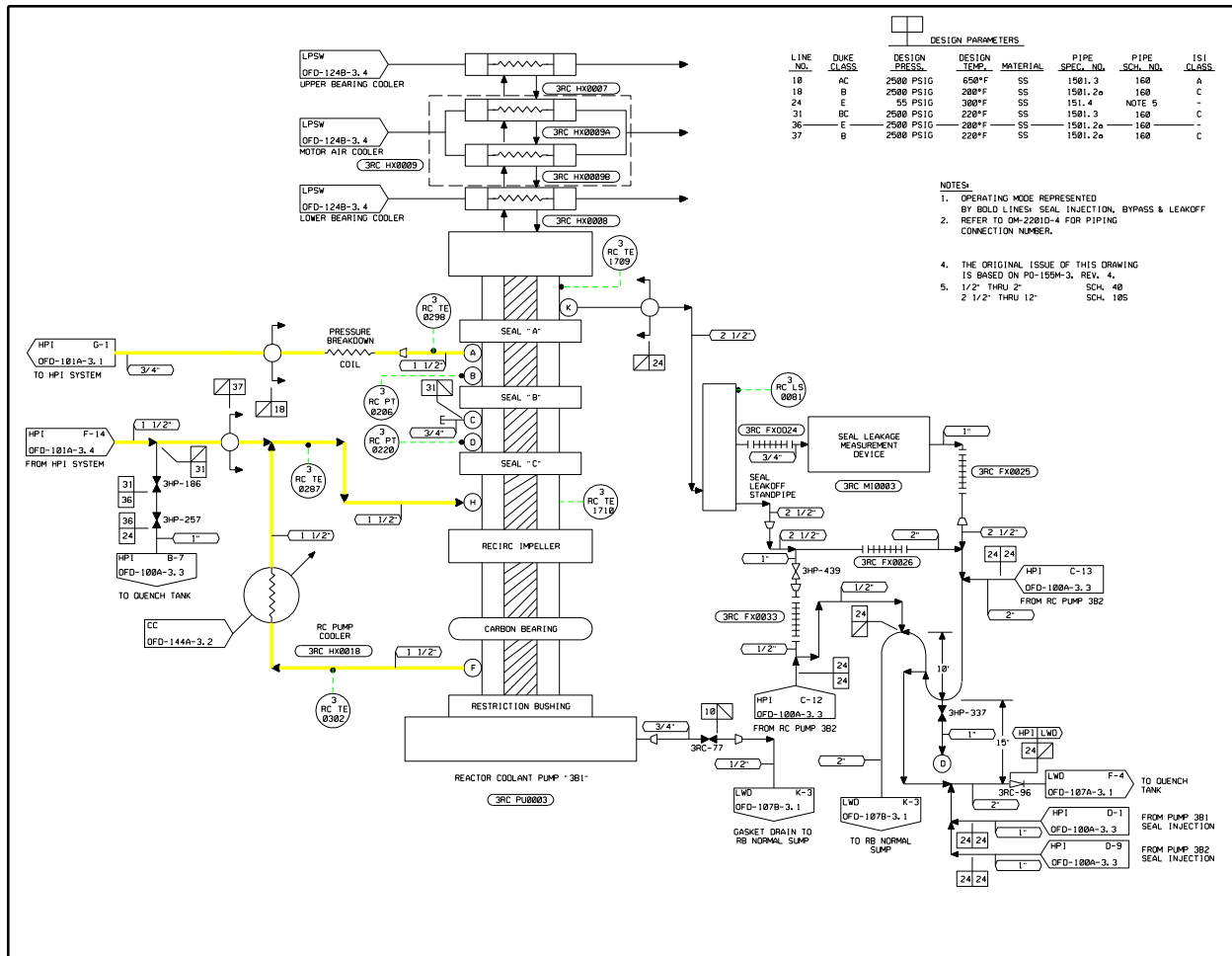




Figure 5-23. Code Allowables and Reinforcing Limits Nozzles and Bowls

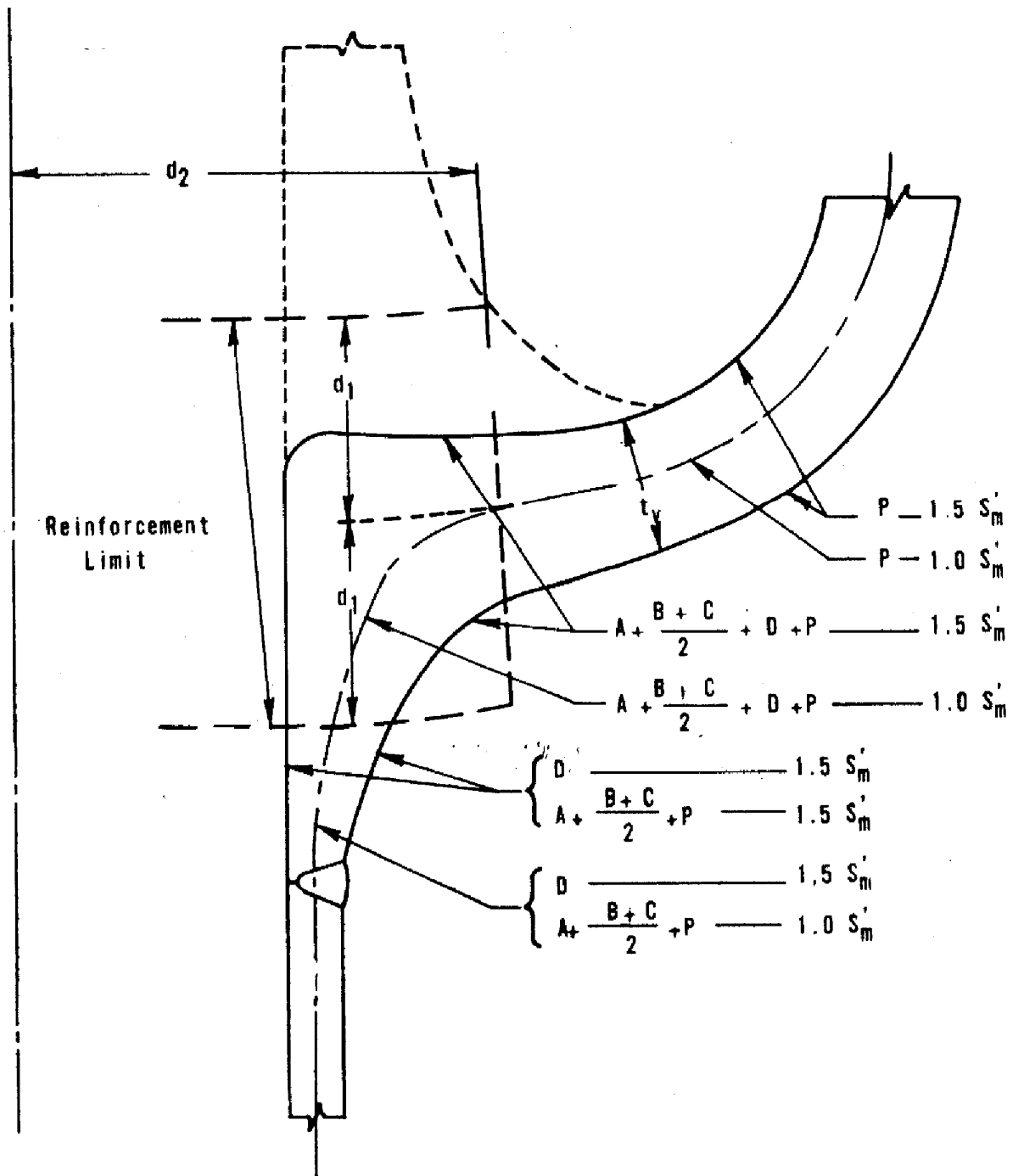


Figure 5-24. Code Allowables, Cover

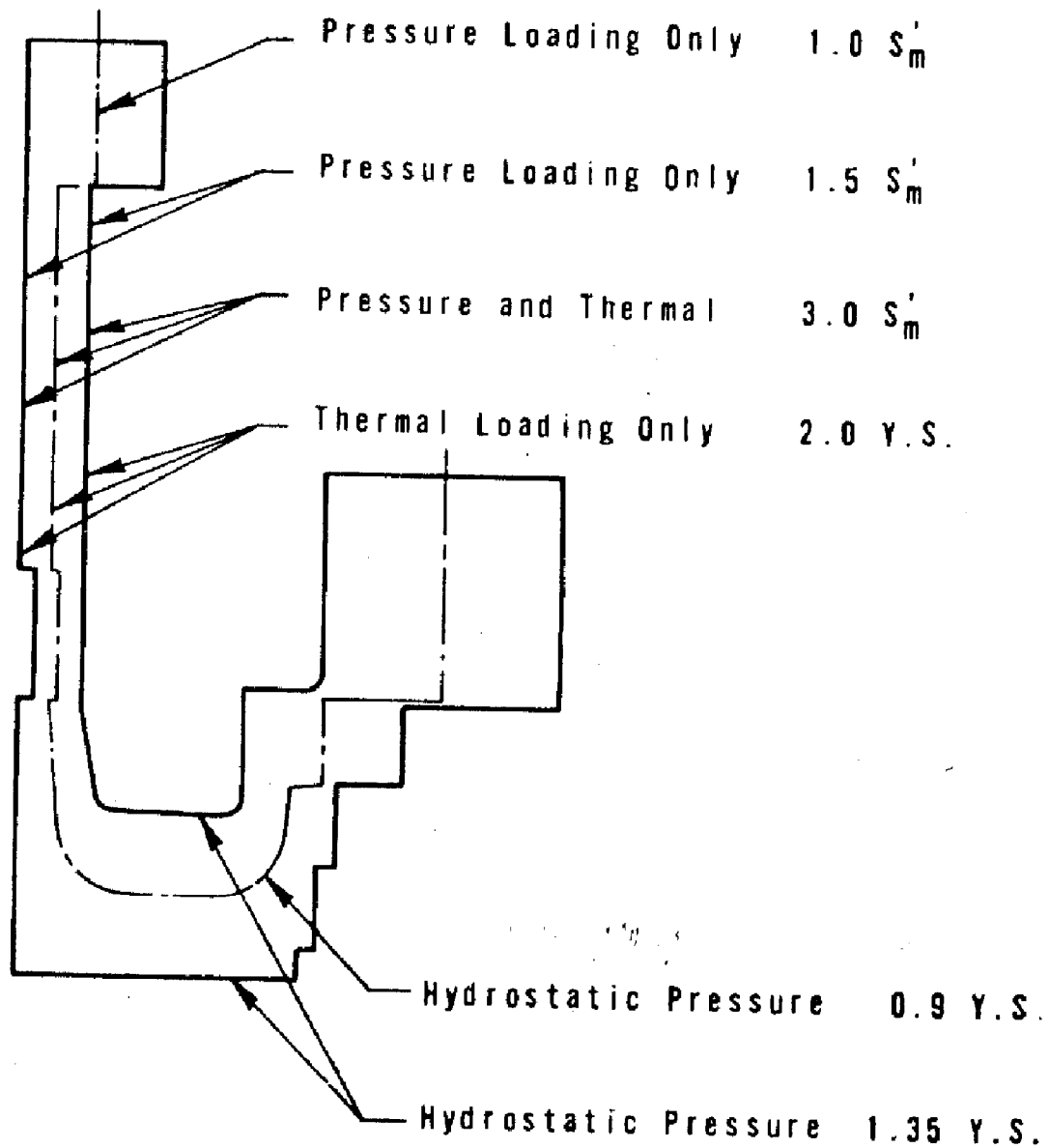
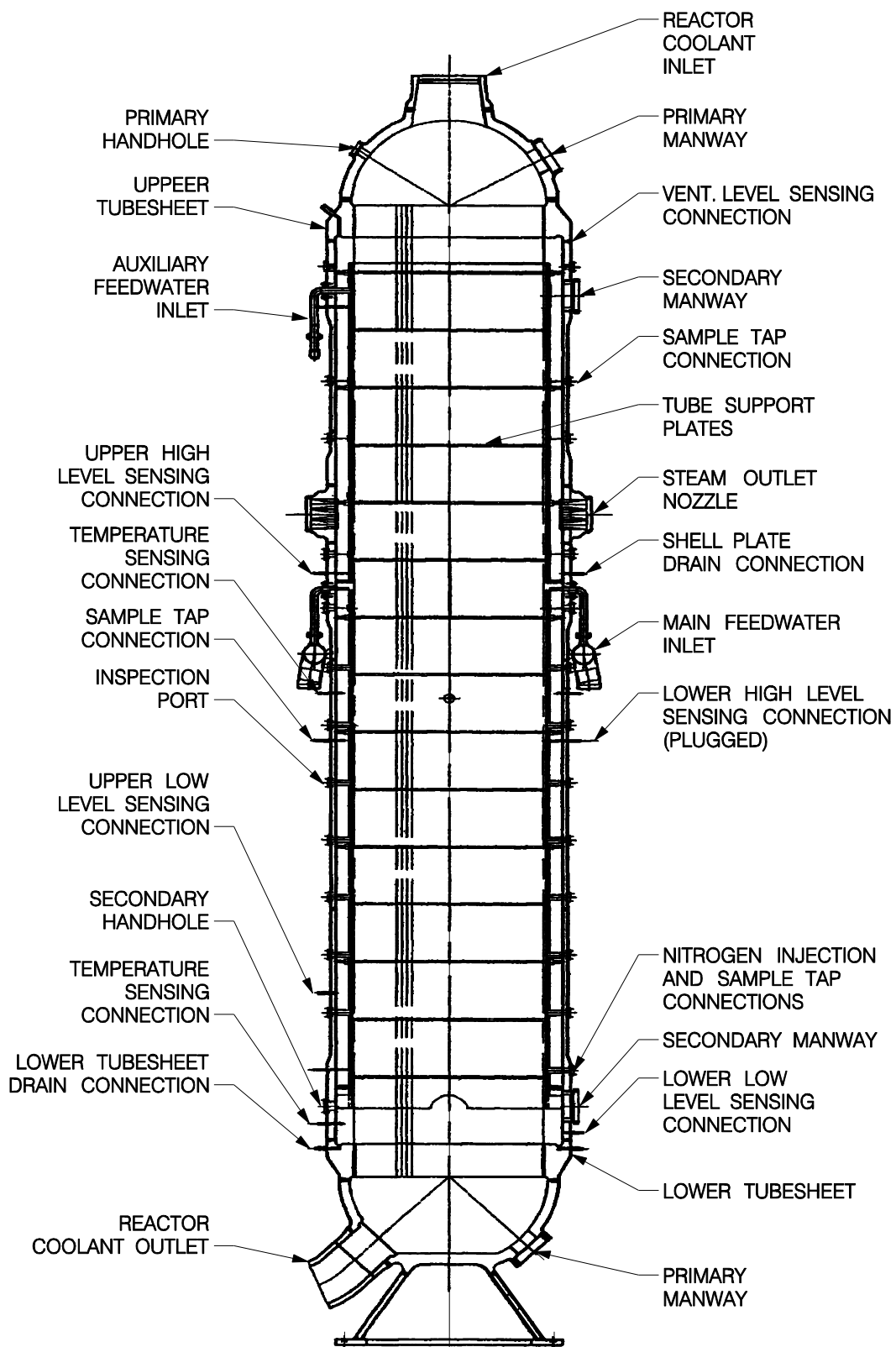


Figure 5-25. Steam Generator Outline





**Figure 5-26. Deleted Per 2004 Update**

(31 DEC 2004)

Figure 5-27. Turbine Generator Speed Response Following Load Rejection

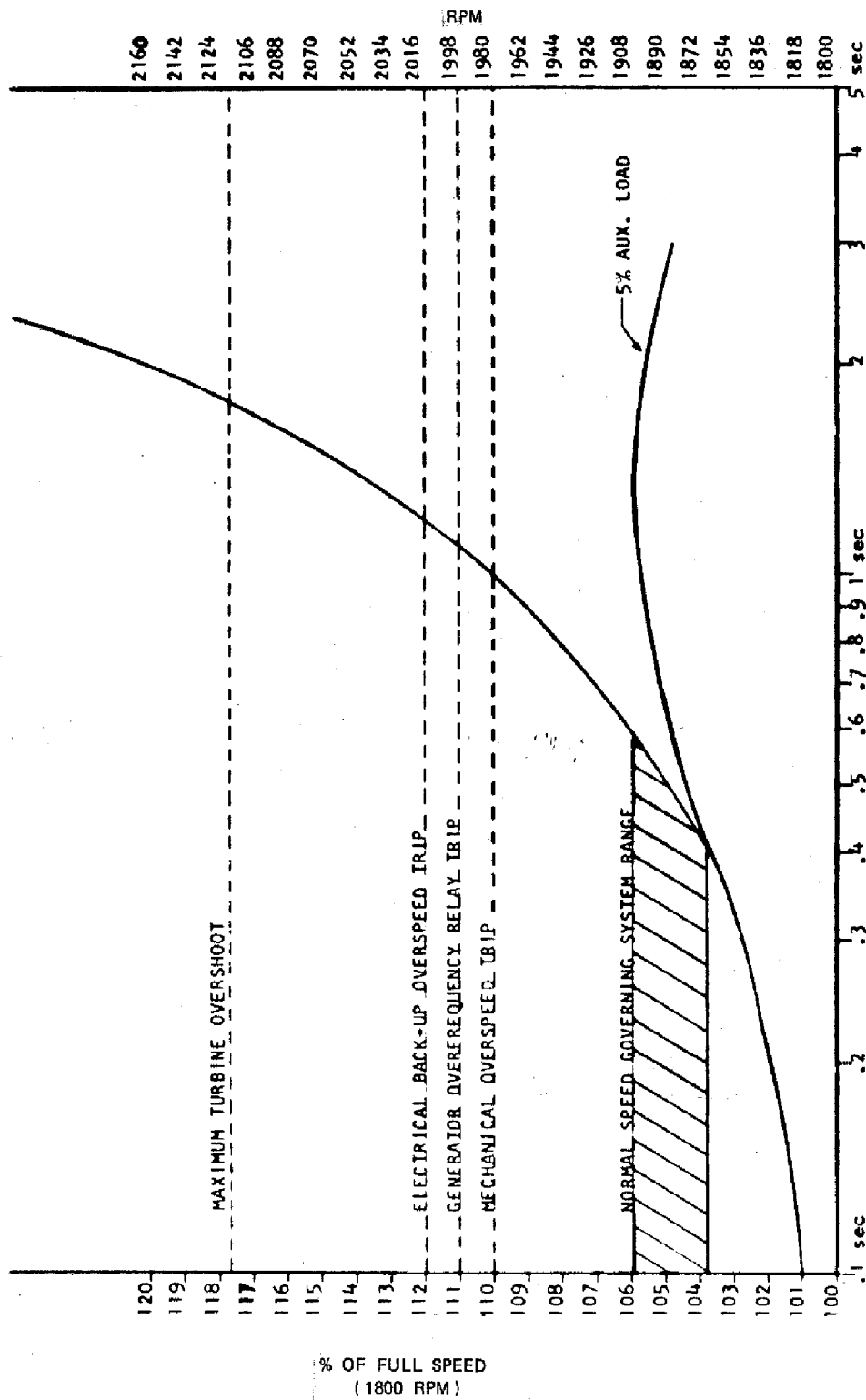


Figure 5-28. Pressurizer Outline

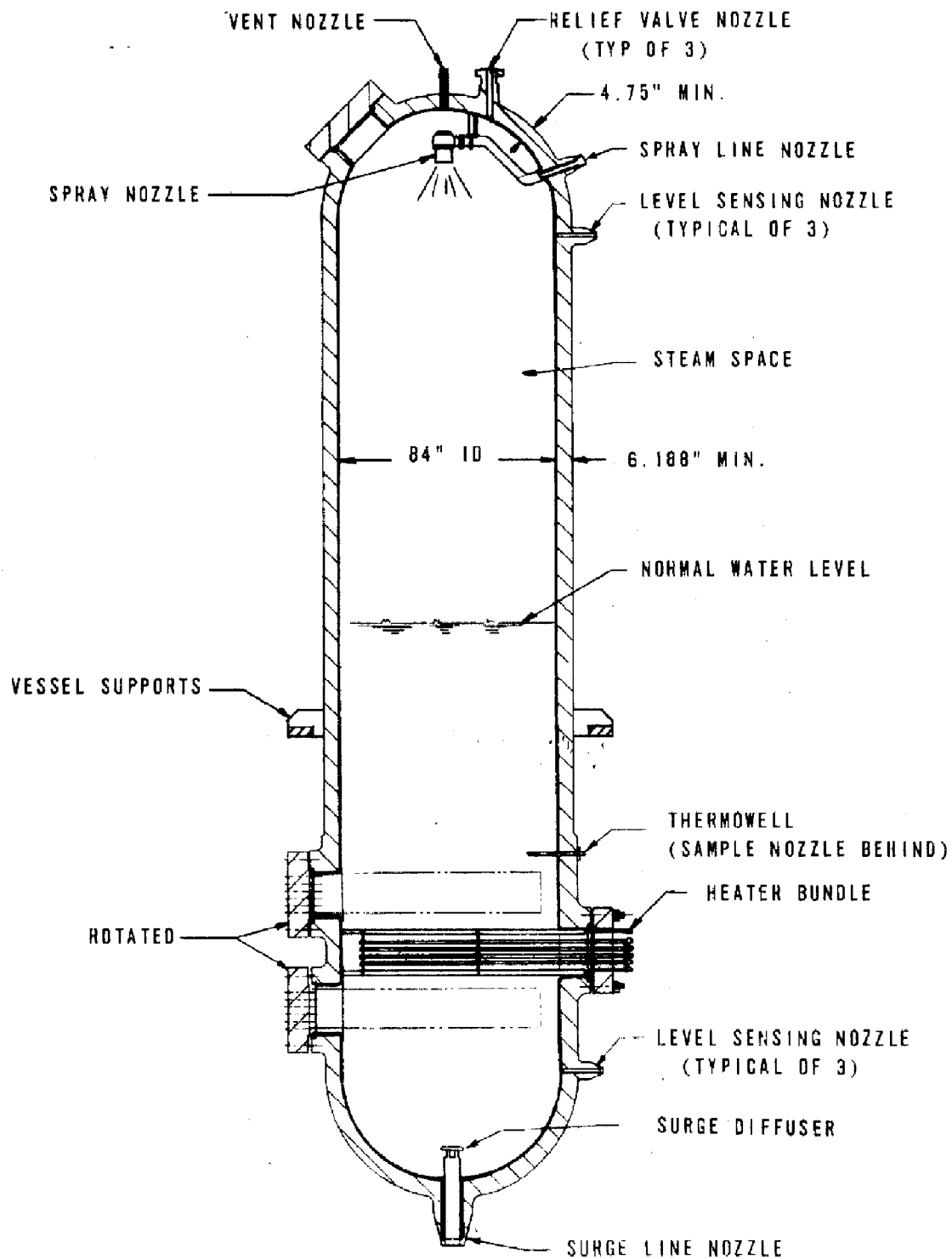


Figure 5-29. Reactor Coolant System Arrangement Elevation (Typical)

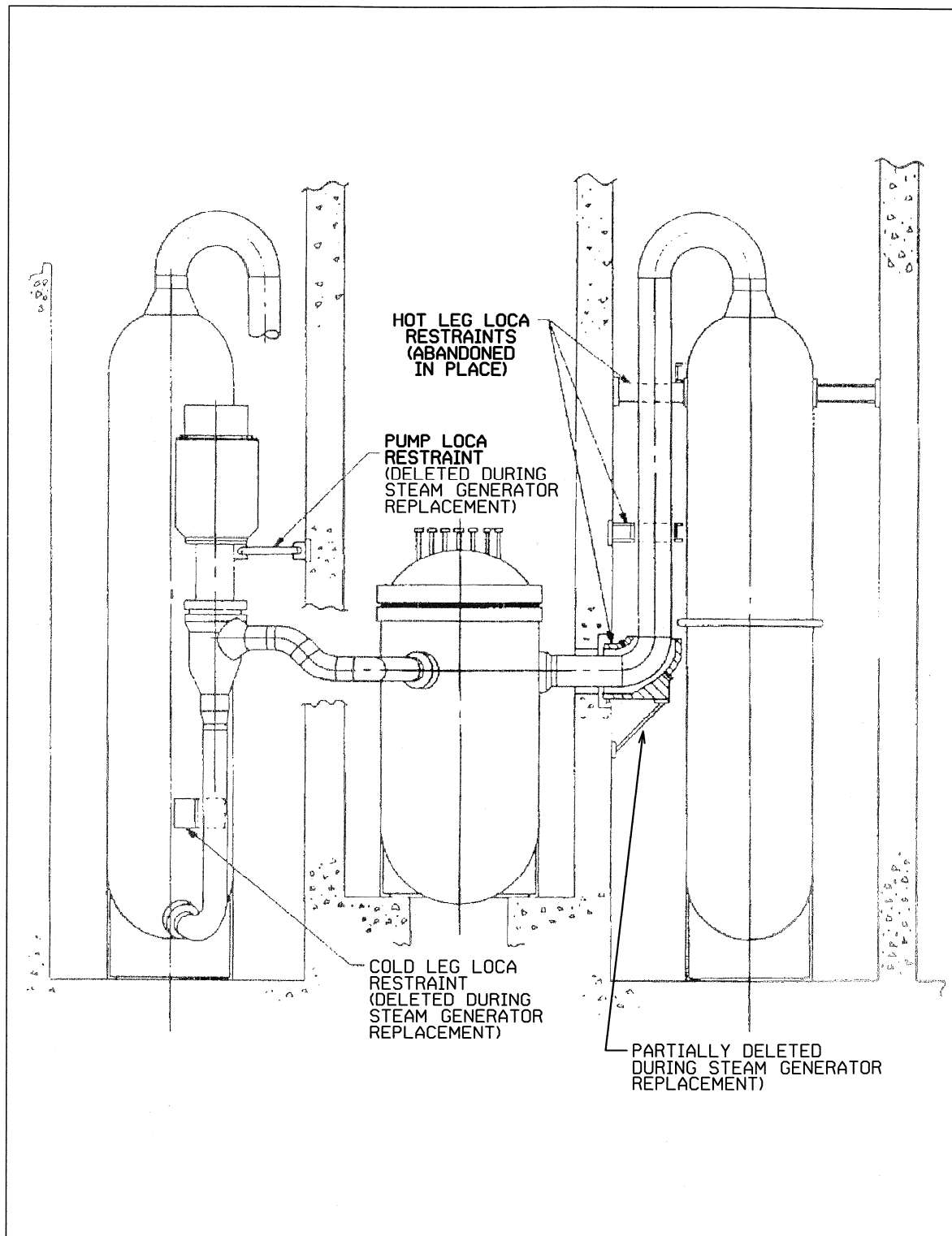


Figure 5-30. Reactor Coolant System Arrangement - Plan (Typical)

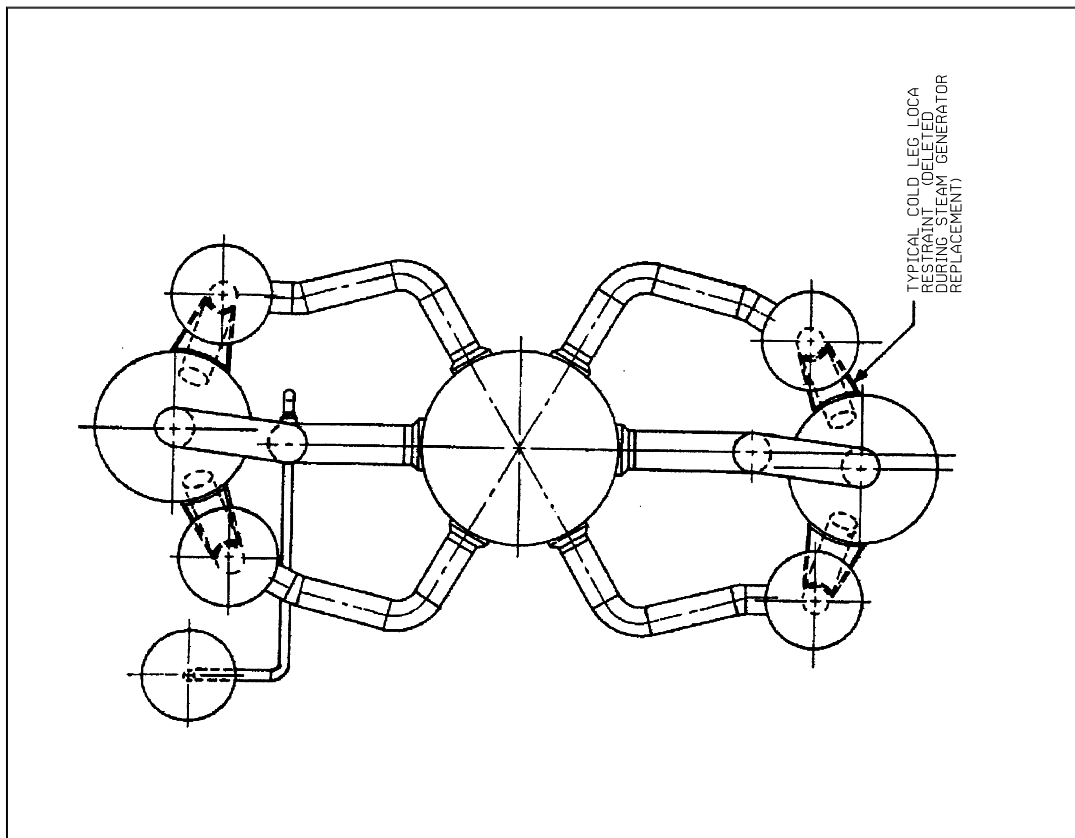
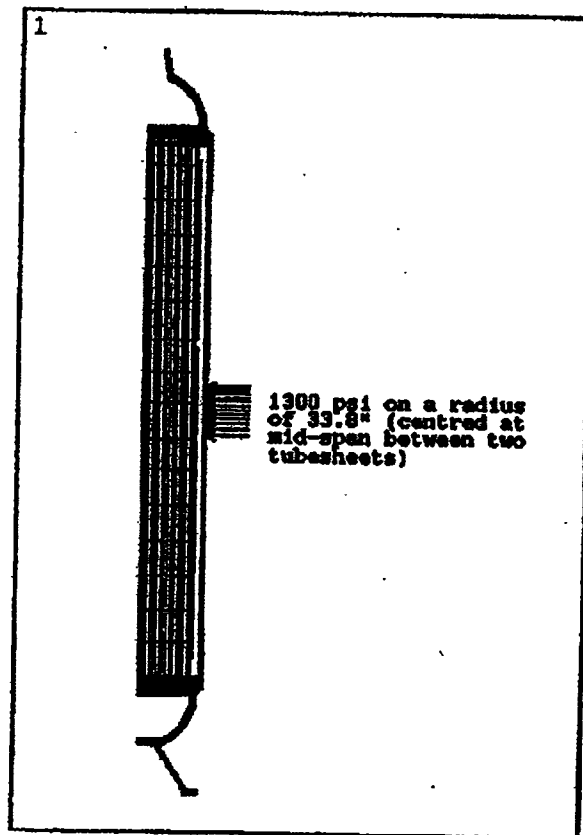


Figure 5-31. Jet Impingement Load on the Replacement Steam Generator

**Notes:**

- [1] Base support and upper lateral support Level D loads already include the effect of this jet impingement load.
- [2] For the determination of shell stresses, the shell can be considered fixed at the lower tubesheet and simply supported at the upper tubesheet.

**Figure 5-32. Deleted Per 2003 Update**

(31 DEC 2003)

**Figure 5-33. Replacement Reactor Vessel Closure Head Outline**

