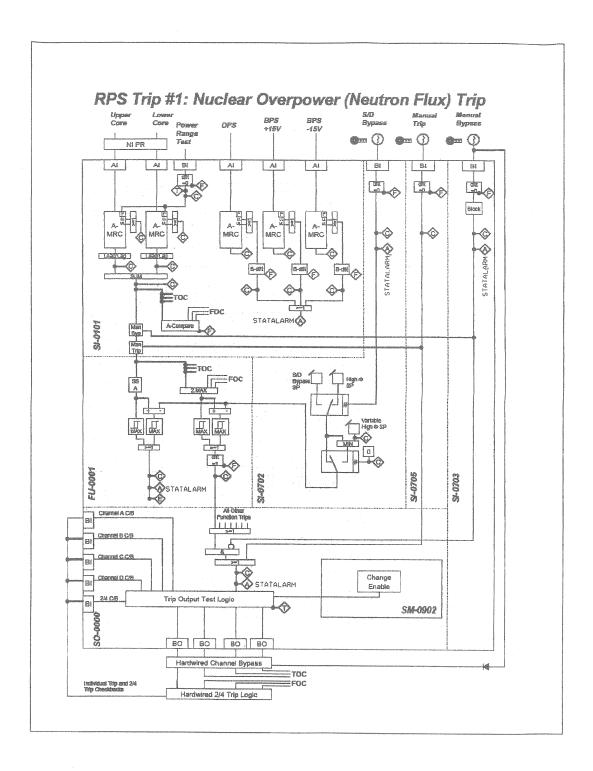
# Appendix 7B. Figures

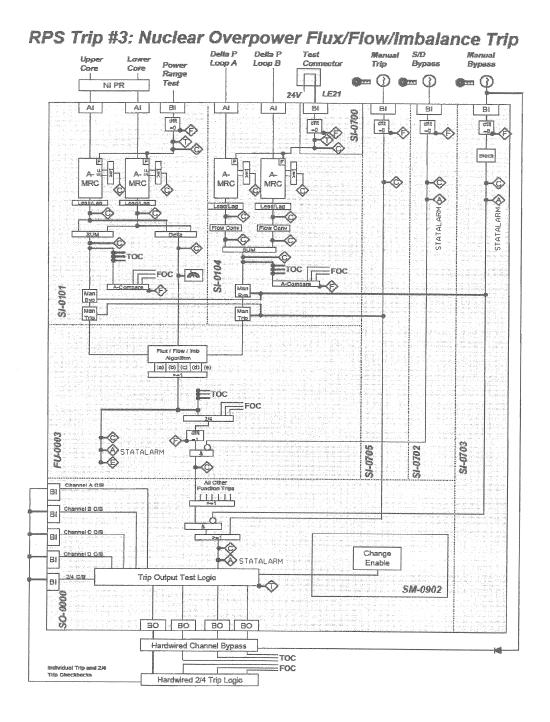
#### Figure 7-1. Reactor Protection System

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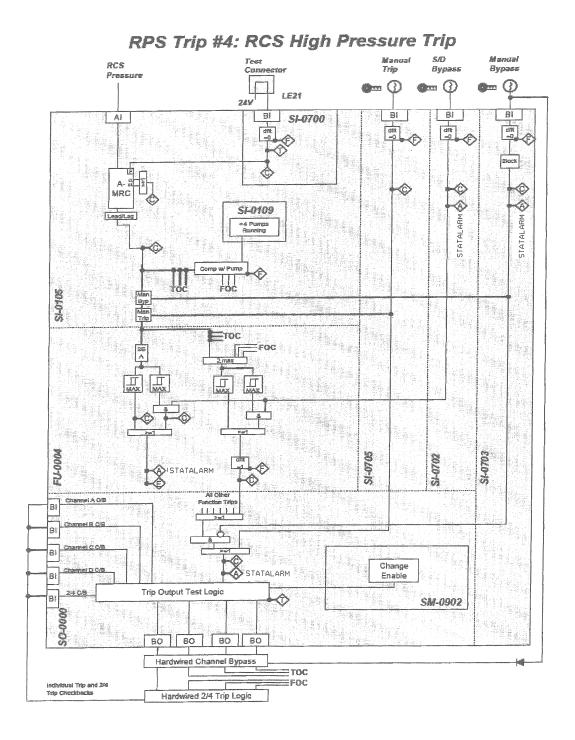
8 TXS RPS Protection Channel Interconnections Fiber Optic Cables Organises on annications shown. Other channes intercennesied similarly. and Reactor Trip Relay Logic DGID Gevatier C Trip FRP8 channel C 00 00 CRO Breamer Trip

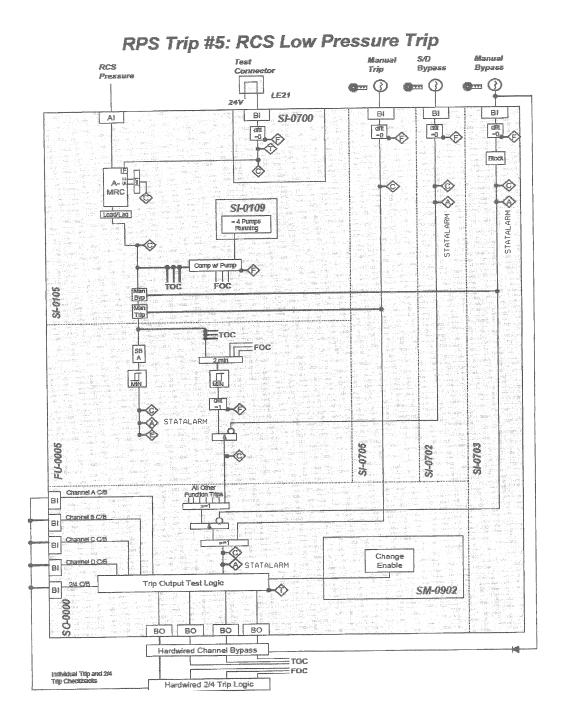


RPS #2 Trip Not Used



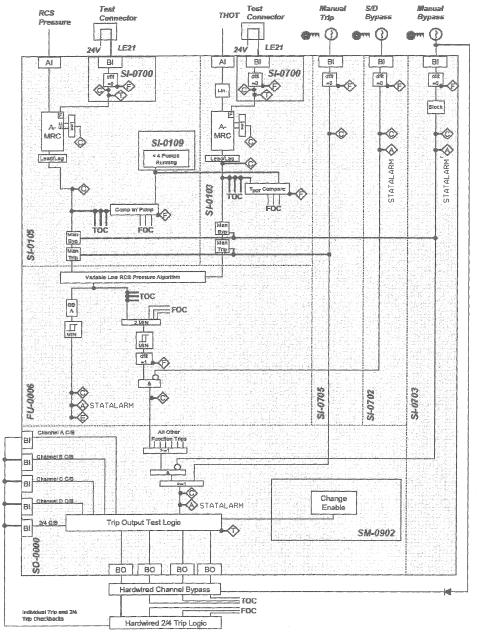
(31 DEC 2013)



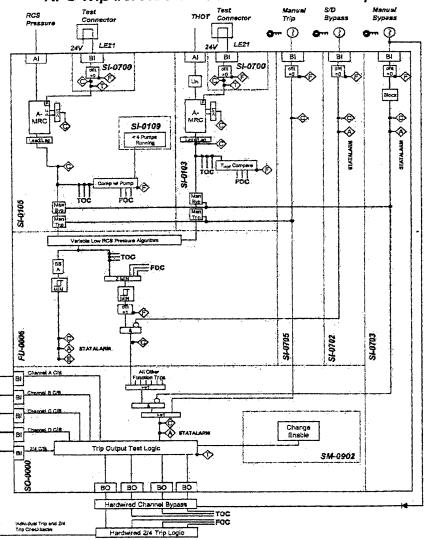


UNIT 1 ONLY

RPS Trip #6: RCS Variable Low Pressure Trip

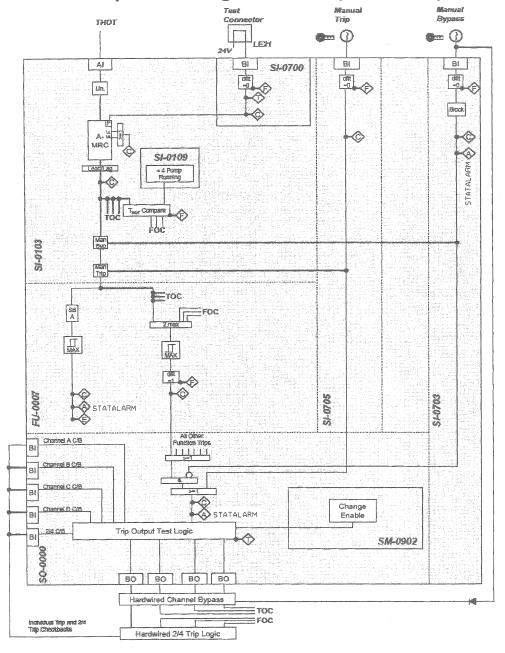


UNITS 2 & 3 ONLY RPS Trip #6: RCS Variable Low Pressure Trip Test THOT Connector



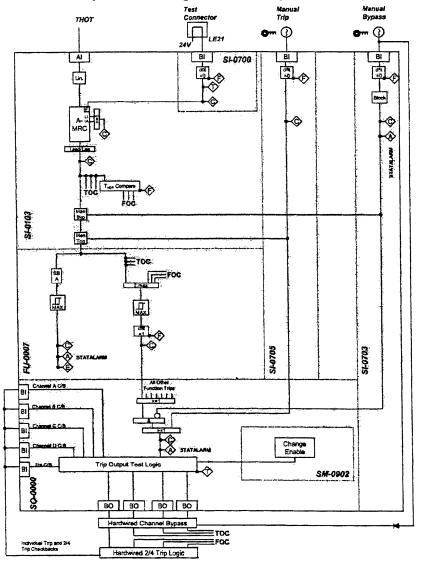
**UNIT 1 ONLY** 

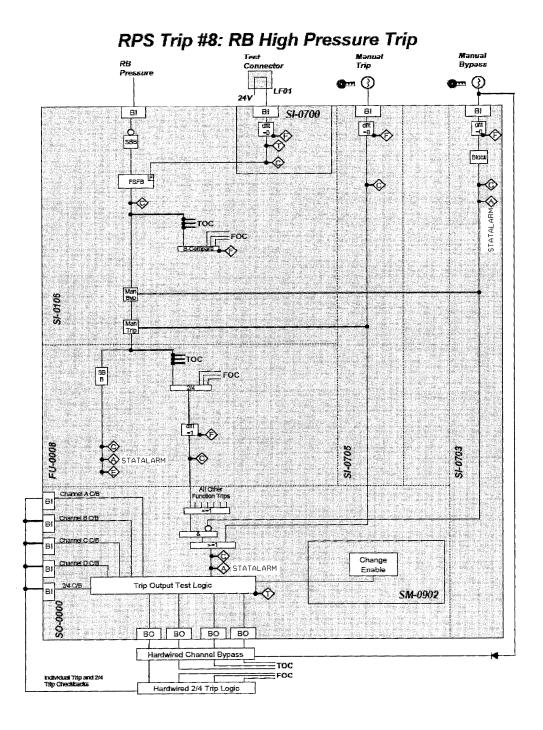
### RPS Trip #7: RCS High Outlet Temperature Trip

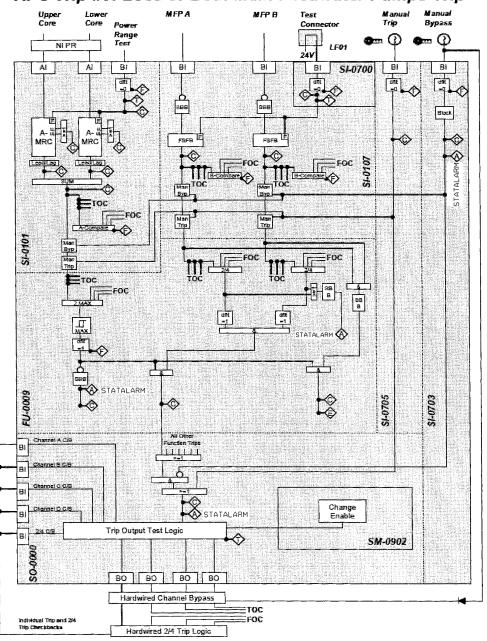


UNITS 2 & 3 ONLY

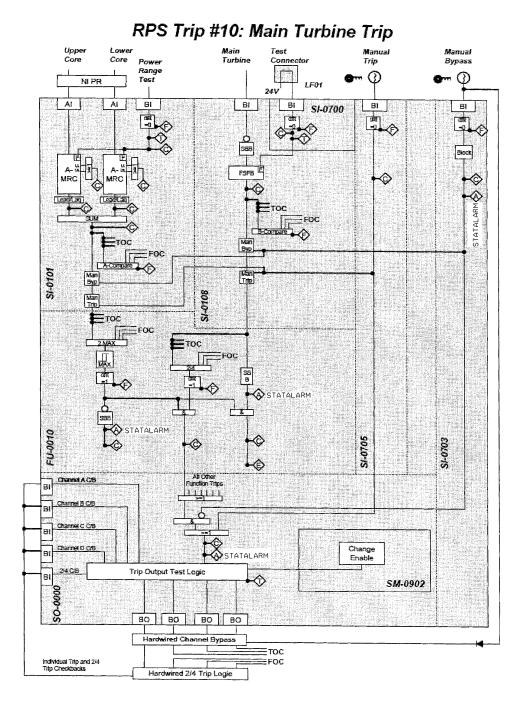
#### RPS Trip #7: RCS High Outlet Temperature Trip

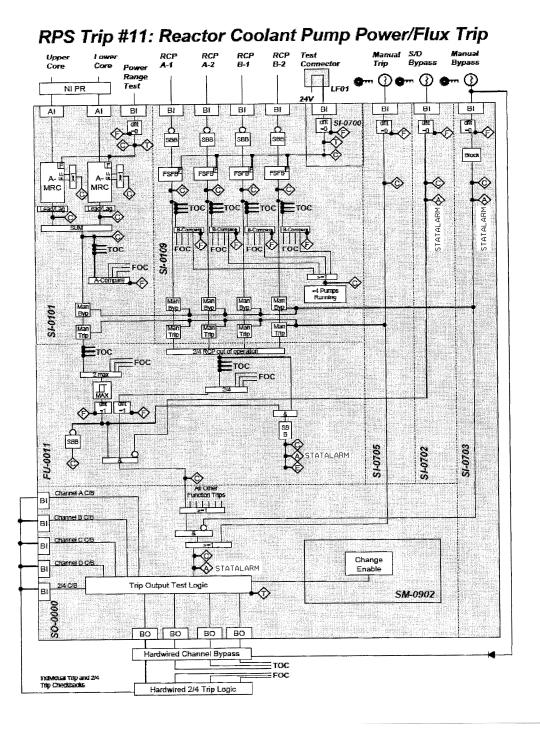






RPS Trip #9: Loss of Both Main Feedwater Pumps Trip





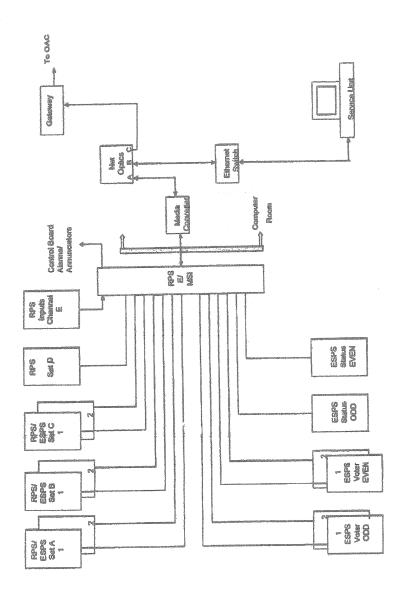


Figure 7-2. Typical Pressure Temperature Boundaries

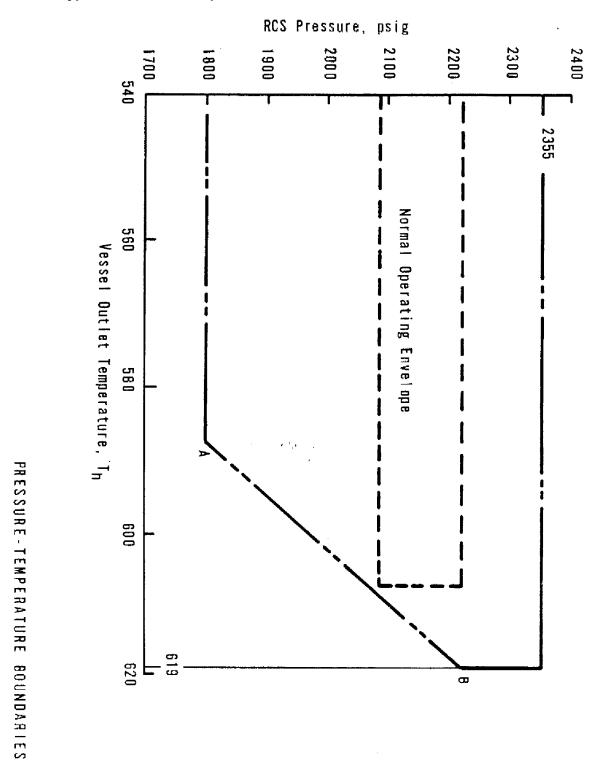
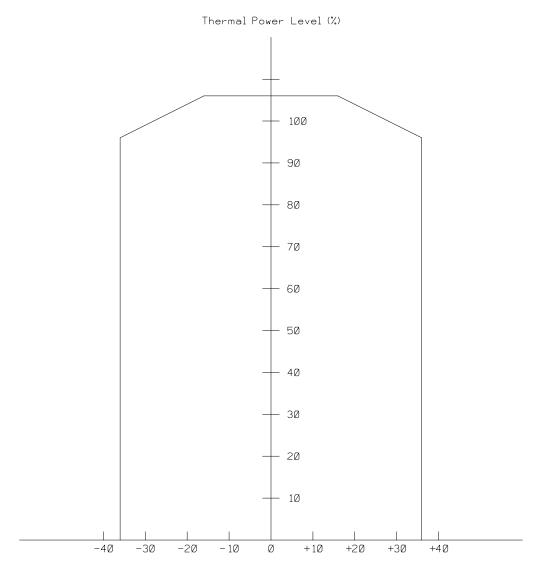
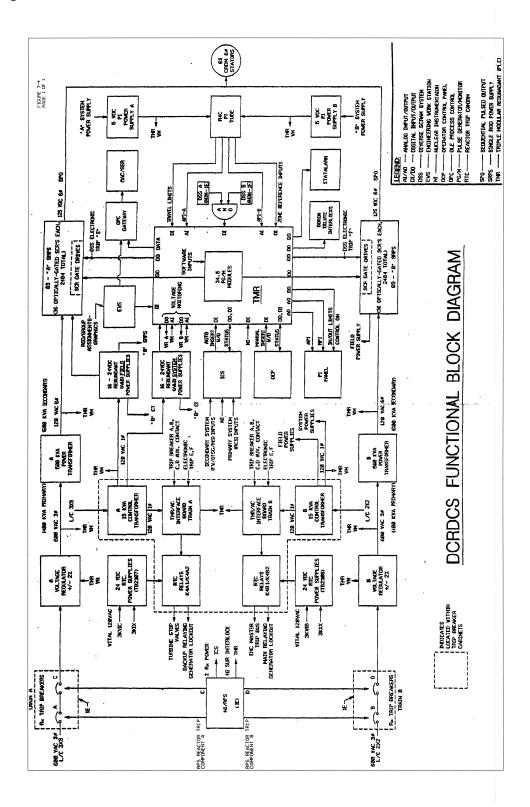


Figure 7-3. Typical Power Imbalance Boundaries



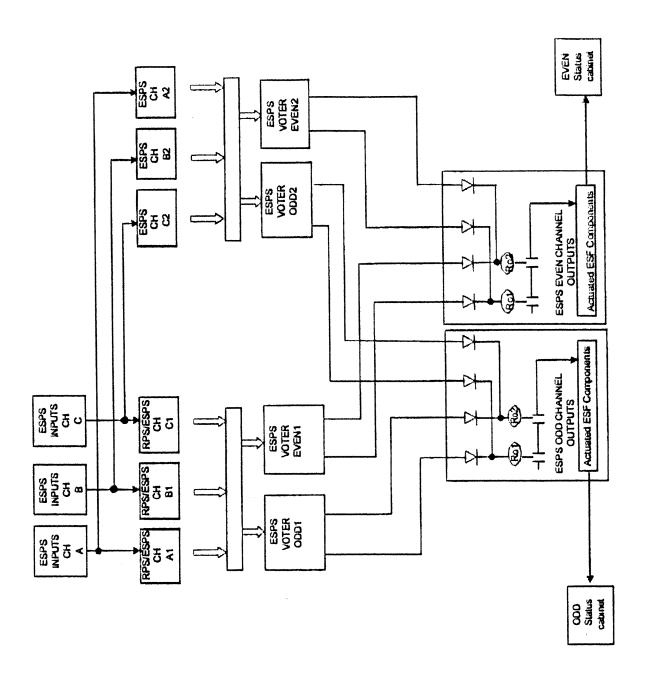
Reactor Power Percent Imbalance (percent Delta Flux)

**Figure 7-4. Rod Control Drive Controls** 



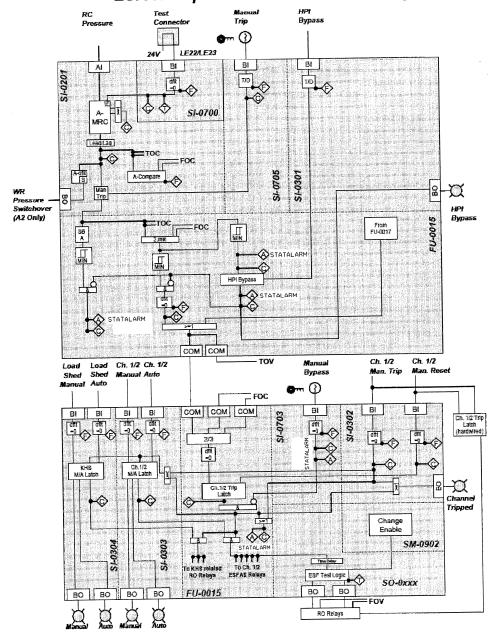
#### Figure 7-5. Engineered Safeguards Protection System

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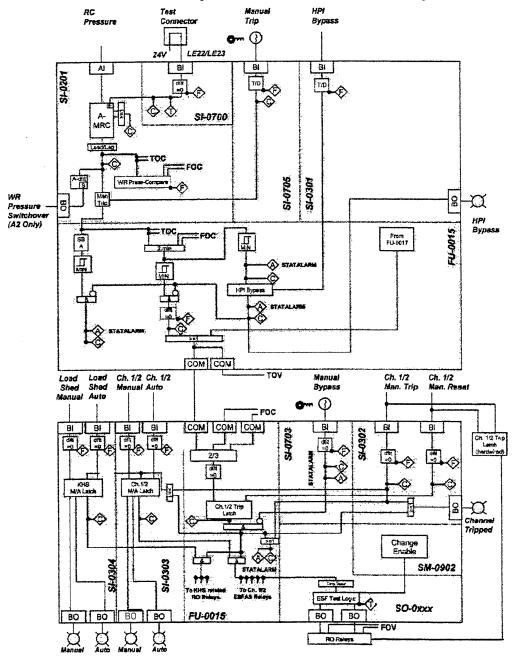


UNIT 1 ONLY

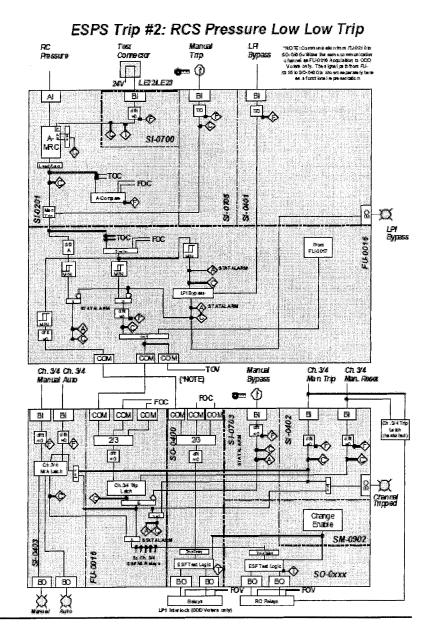
## ESFAS Trip #1: RCS Pressure Low Trip



UNITS 2 & 3 ONLY ESPS Trip #1: RCS Pressure Low Trip

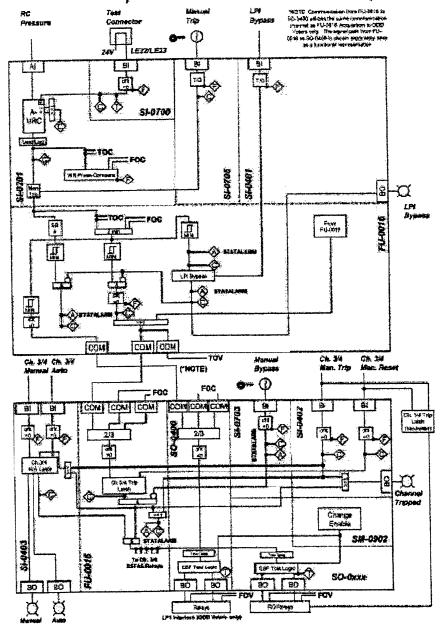


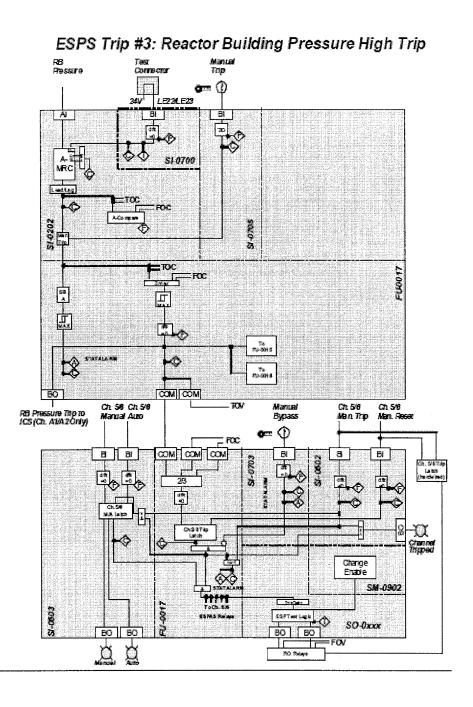
**UNIT 1 ONLY** 



UNITS 2 & 3 ONLY

### ESPS Trip #2: RCS Pressure Low Low Trip





COM Ch 7/8 Man Trip Ch. 7/8 Man. Reset TOV Cn 78 Cn 7/8 Manual Auto — () Channel Tripped Change Enable SM-0902 SSFTeen Sigle SO-0xxx BO BO 90 B0

ESPS Trip #4: Reactor Building Pressure High High Trip

Figure 7-6. Nuclear Instrumentation System

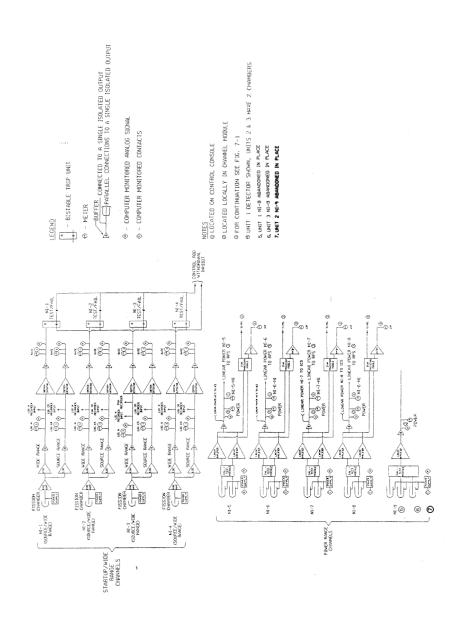


Figure 7-7. Nuclear Instrumentation Flux Range

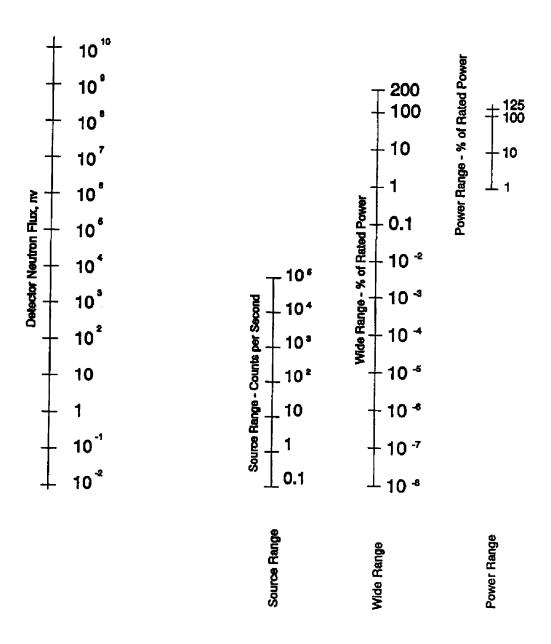


Figure 7-8. Nuclear Instrumentation Detector Locations

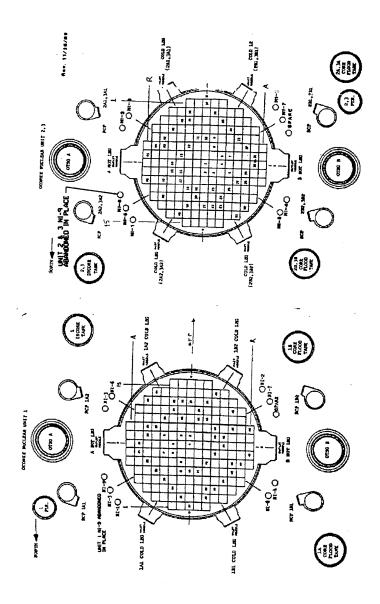


Figure 7-9. Nuclear Instrumentation Detector Locations - (Unit 1)

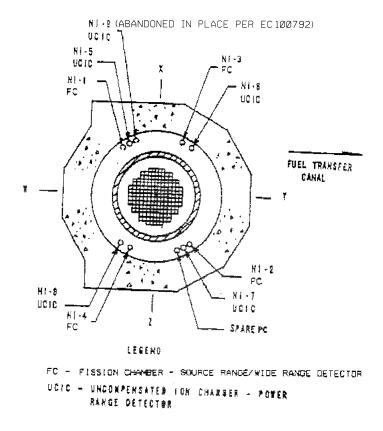


Figure 7-10. Nuclear Instrumentation Detector Locations - (Unit 2 & 3)

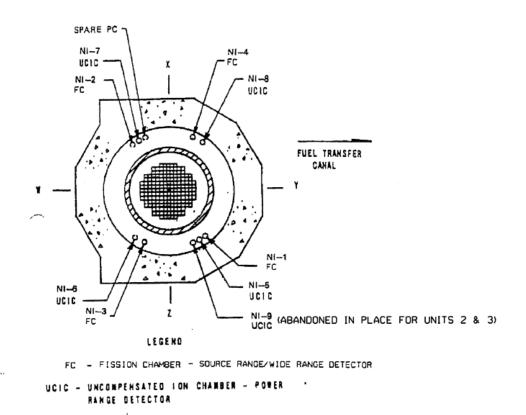
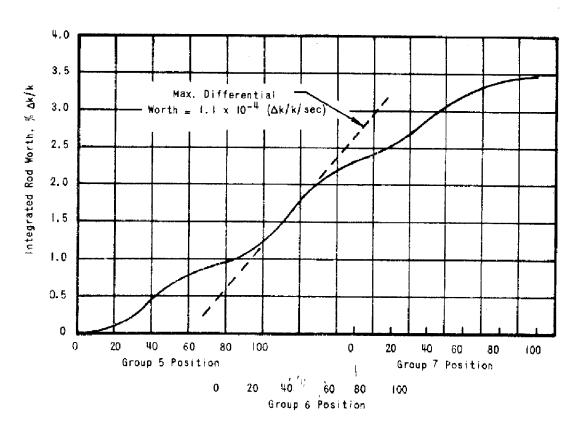


Figure 7-11. Automatic Control Rod Groups - Typical Worth Value Versus Distance Withdrawn



Distance Withdrawn, %

Figure 7-12. Control Rod Drive Logic Diagram

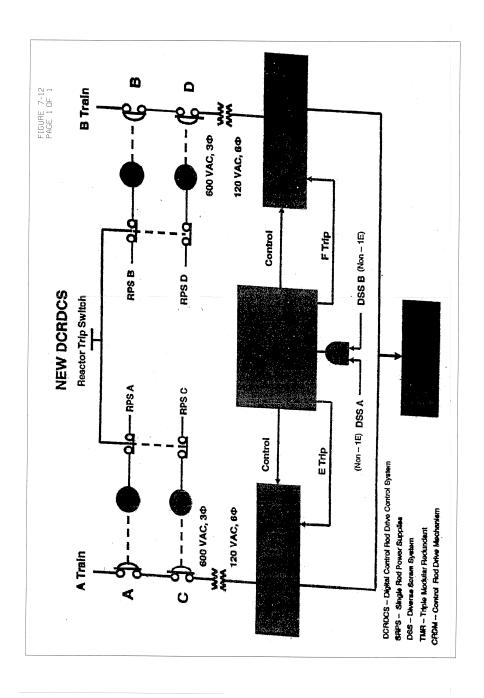


Figure 7-13. Control Rod Electrical Block Diagram

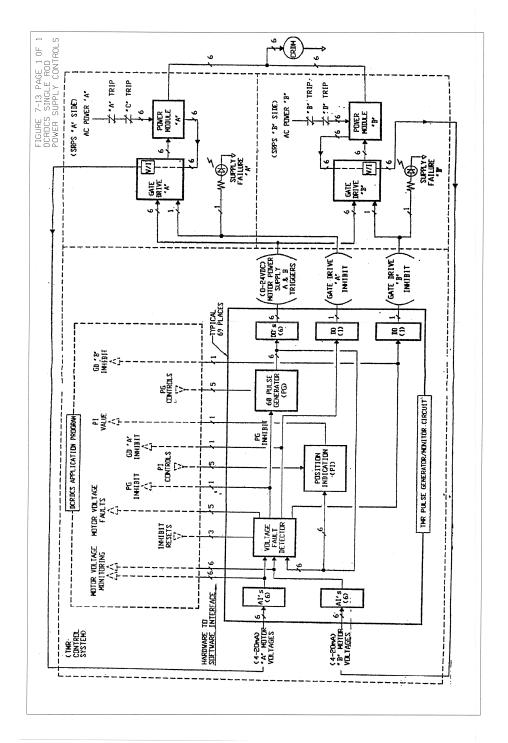
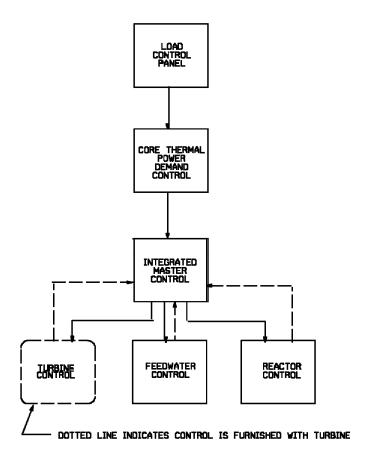


Figure 7-14. Integrated Control System



#### NOTES:

1. TURBINE CONTROL IS FROM THE INTEGRATED MASTER.

Figure 7-15. Core Thermal Power Demand - Integrated Control System

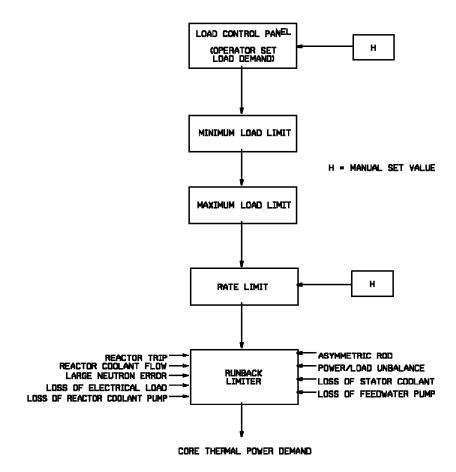


Figure 7-16. Integrated Master - Integrated Control System

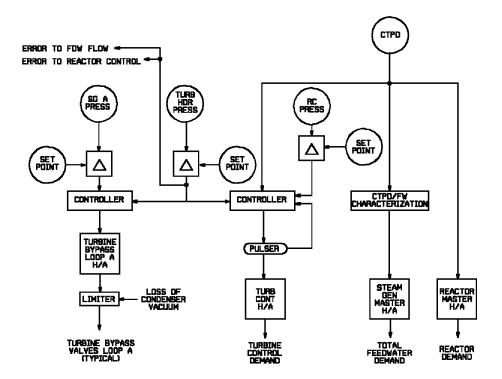


Figure 7-17. Feedwater Control - Integrated Control System

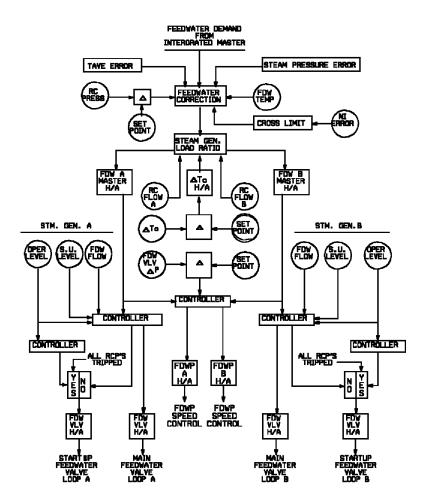


Figure 7-18. Reactor and Steam Temperatures Versus Reactor Power.(Replacement Steam Generator)

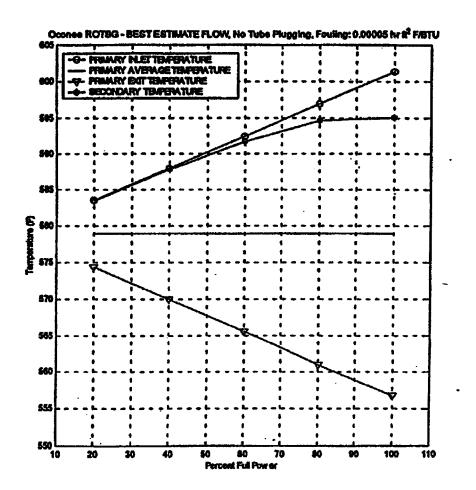


Figure 7-19. Reactor Control - Integrated Control System

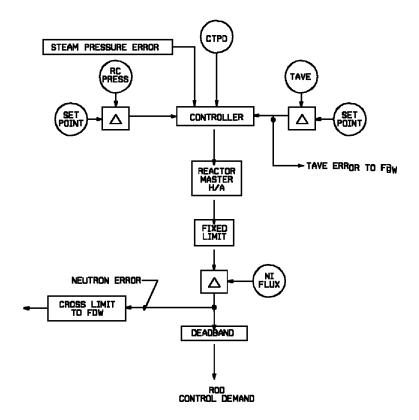


Figure 7-20. Incore Detector Locations

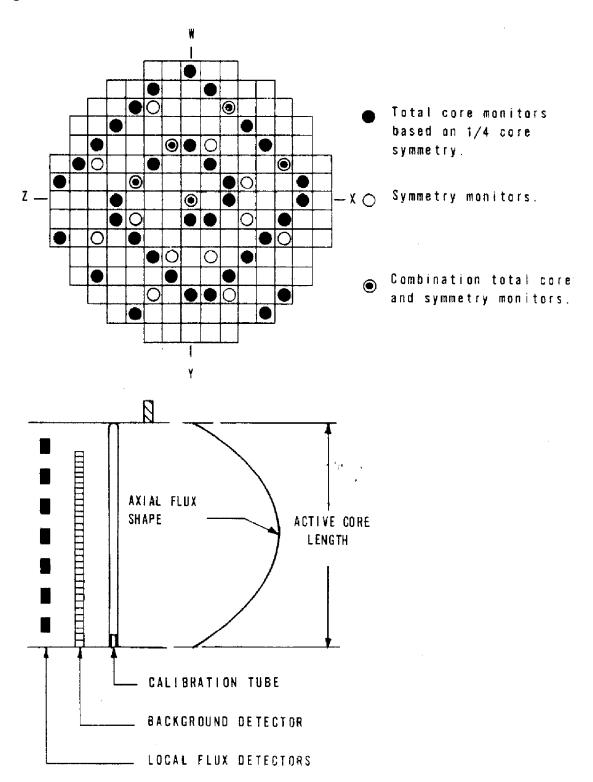


Figure 7-21. Incore Monitoring Channel

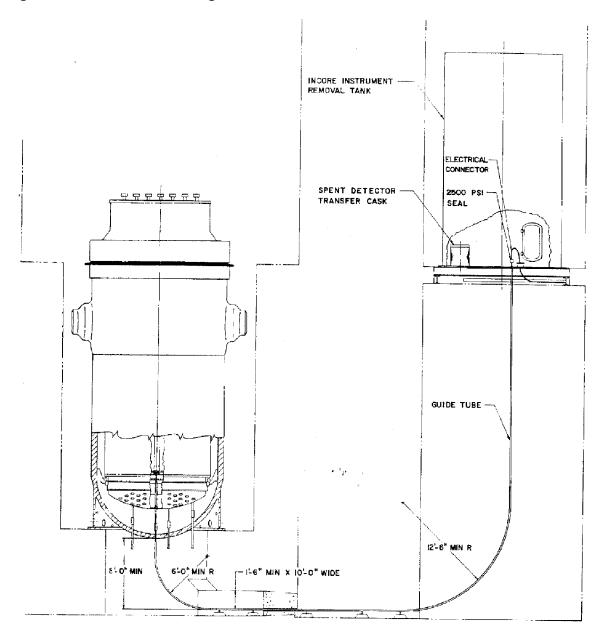


Figure 7-22. Deleted Per 1997 Update

Figure 7-23. Deleted Per 1997 Update

Figure 7-24. Deleted Per 1997 Update

Figure 7-25. Deleted Per 1997 Update

Figure 7-26. Control Room Layout

