

Figure 8-1 Instrumentation and Control Architecture

DAS : Diverse Actuation System PSMS : Protection and Safety Monitoring System HSI : Human System Interface System PCMS : Plant Control and Monitoring System

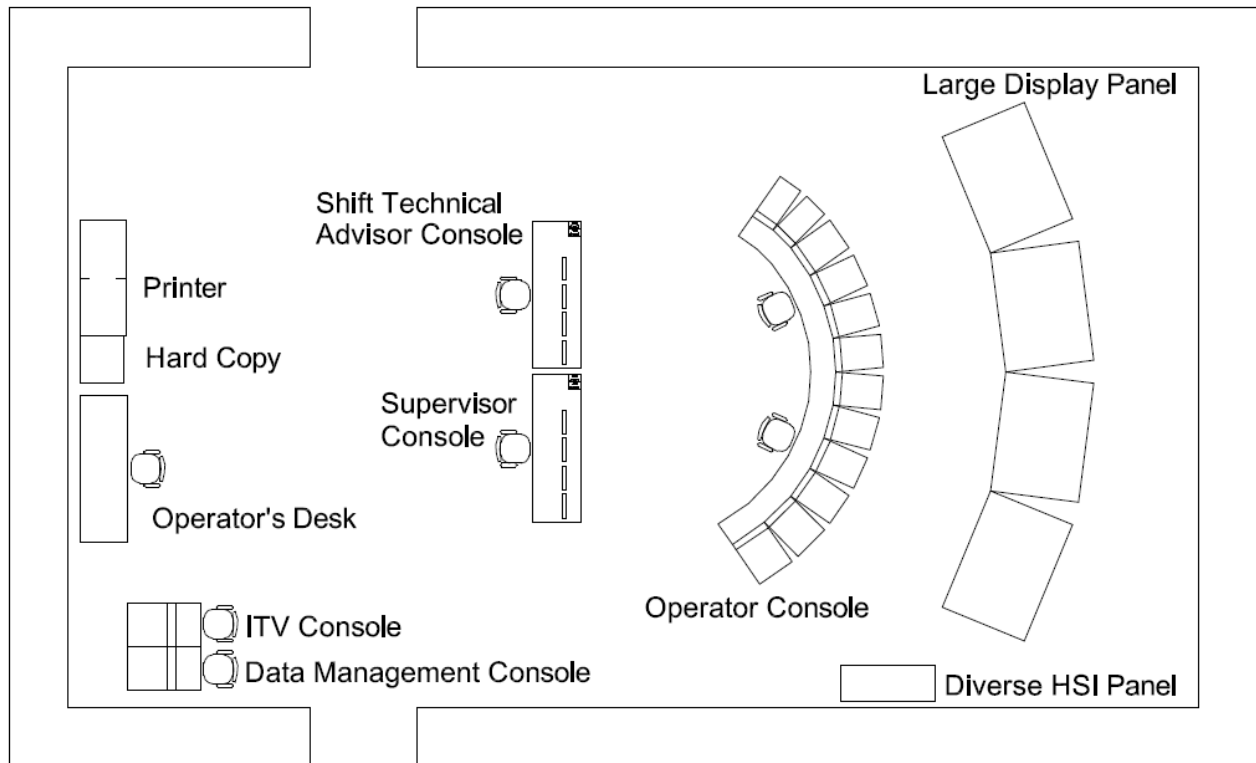
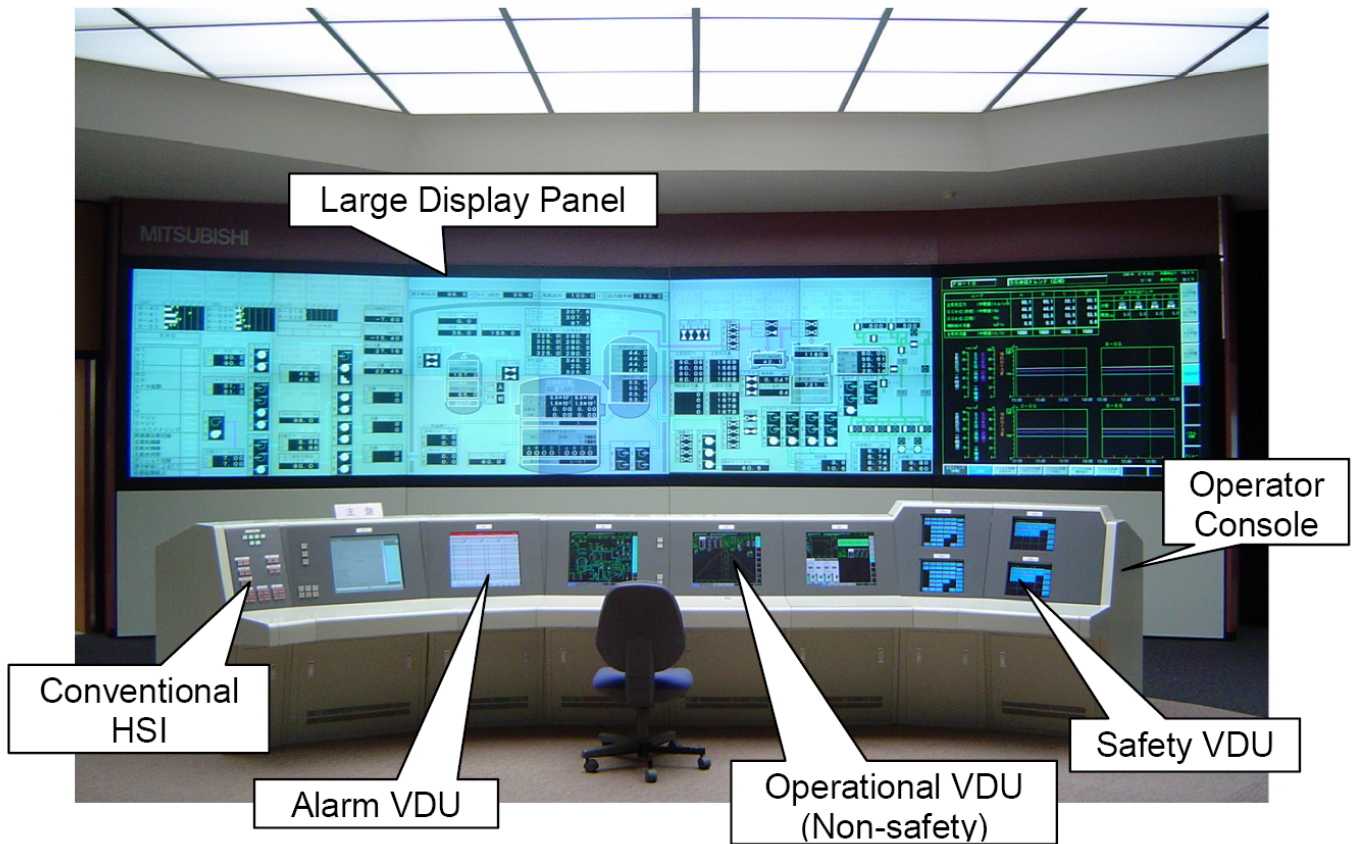


Figure 8-2
Control Room Arrangement

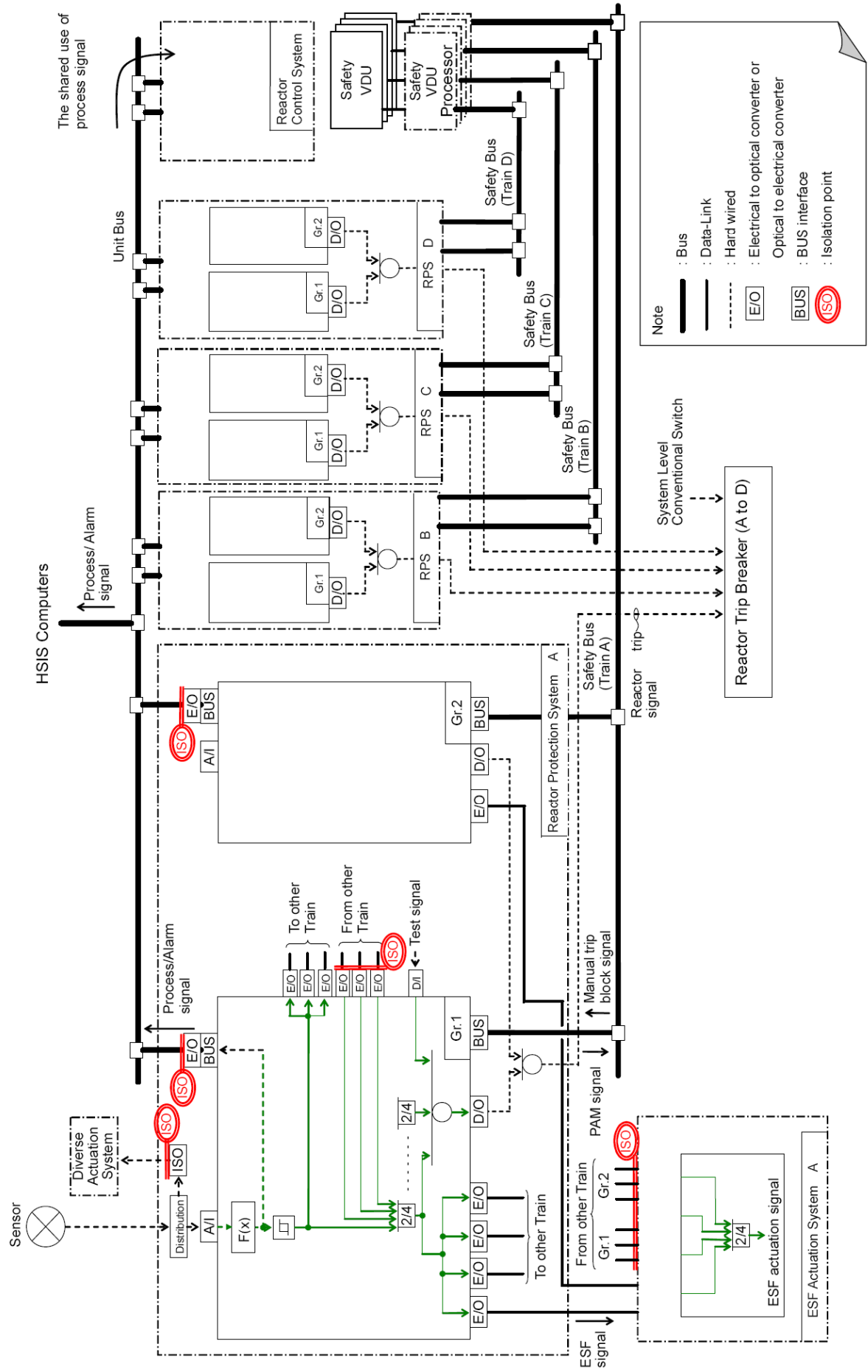
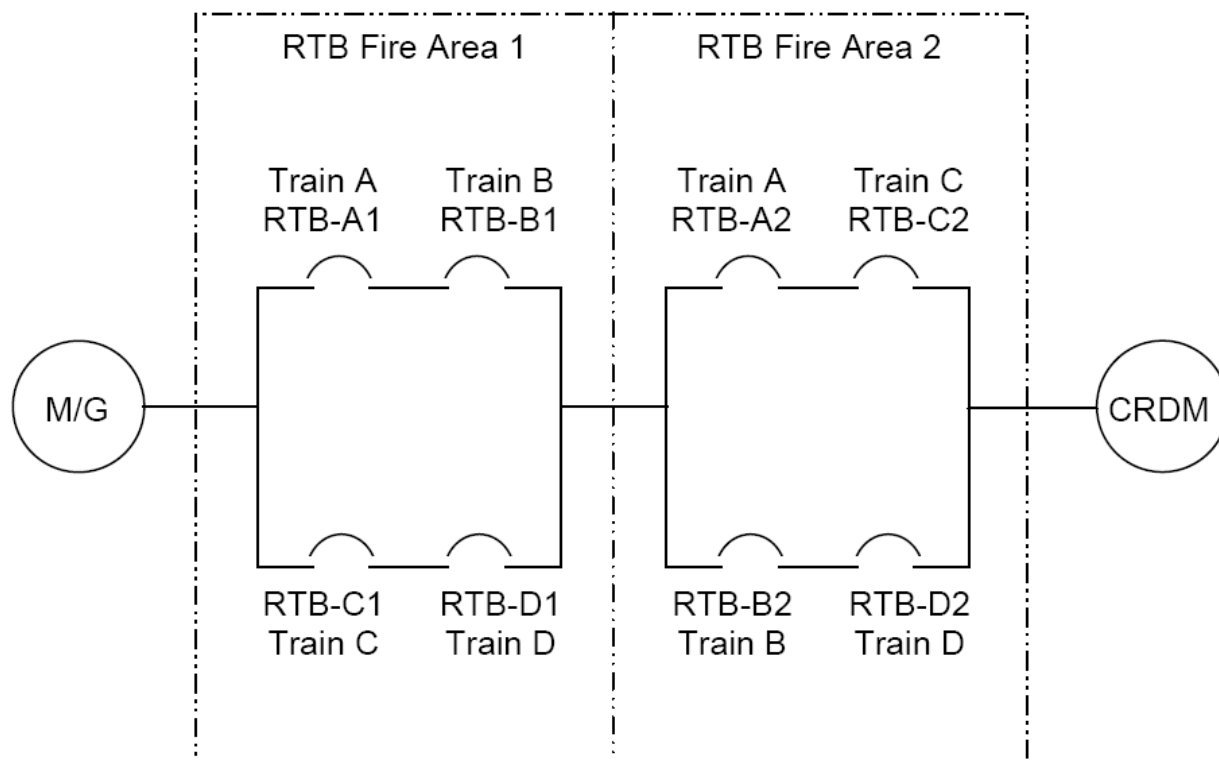
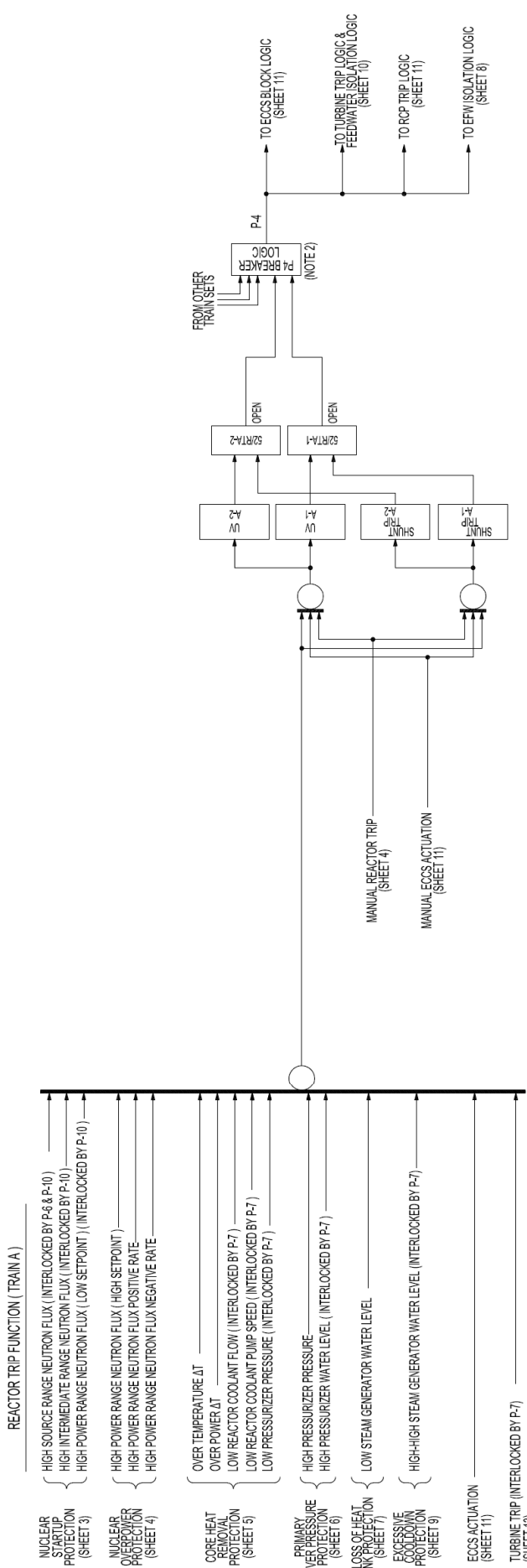


Figure 8-3
Reactor Protection System Configuration



M/G: Motor-Generator Set
 CRDM: Control Rod Drive Mechanism

Figure 8-4
 Reactor Trip Breaker Configuration



- NOTES:
- TRIPPING ANY TWO OR MORE BREAKER SETS (BOTH 1 AND 2) DE-ENERGIZE THE ROD DRIVES. THE CONTROL RODS ARE THEREBY RELEASED FOR GRAVITY INSERTION INTO THE REACTOR CORE.
 - P-4 SIGNAL IS GENERATED BY THE LOGIC BELOW.

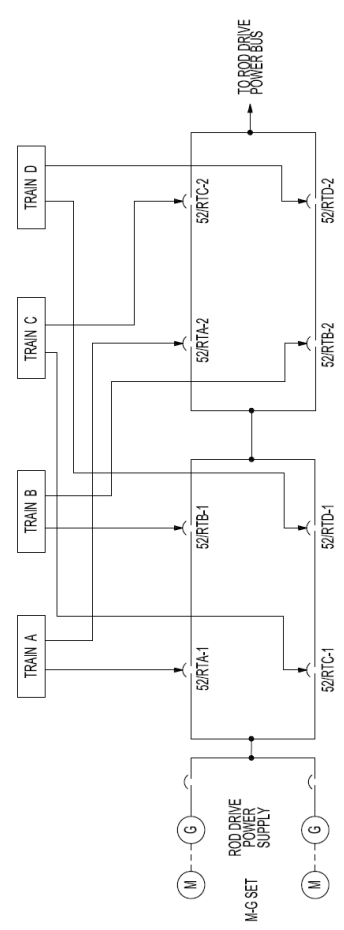
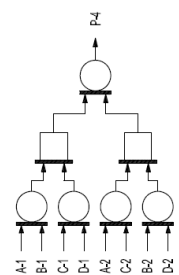


Figure 8-5
Functional Diagram - Reactor Trip Functions

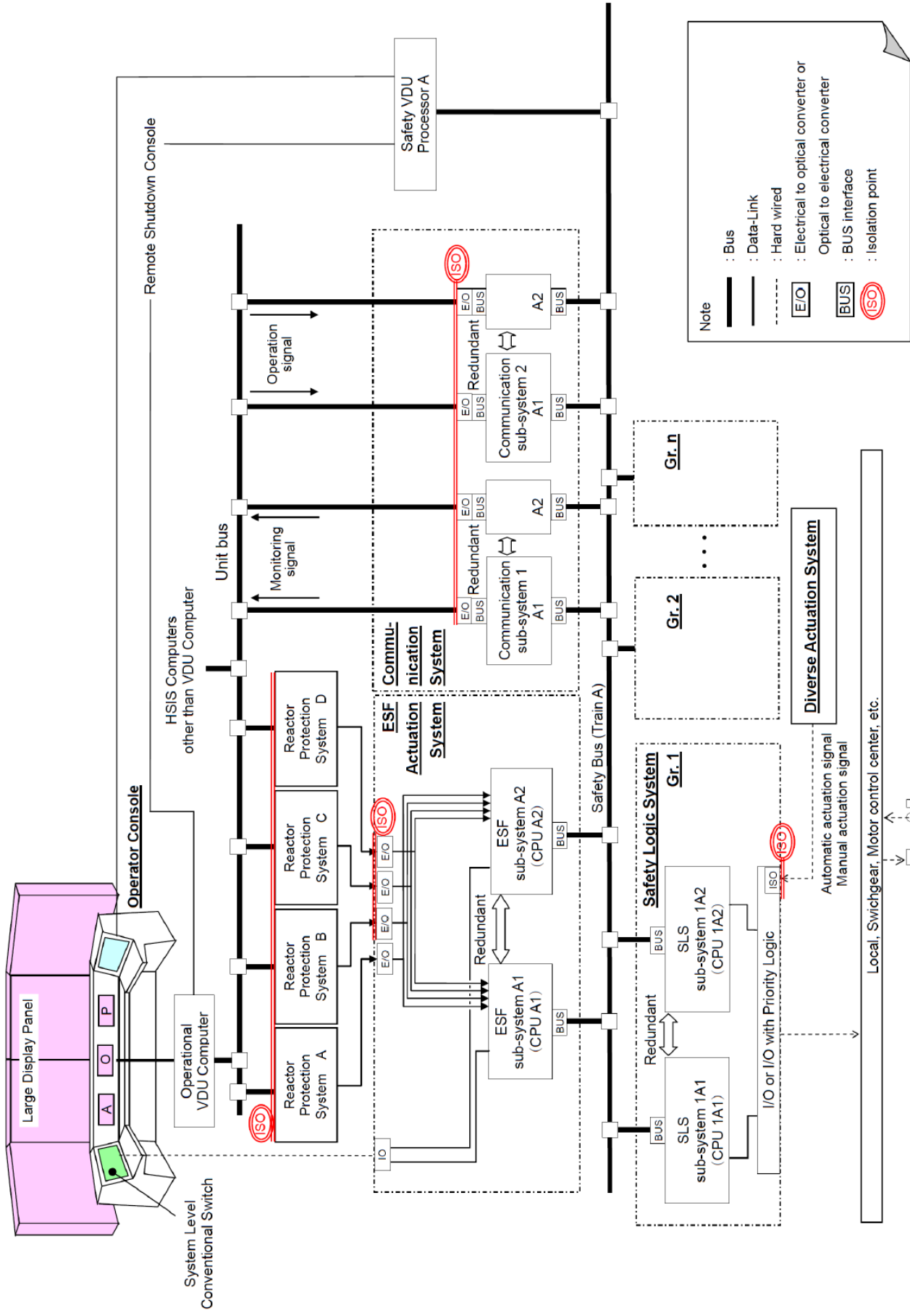
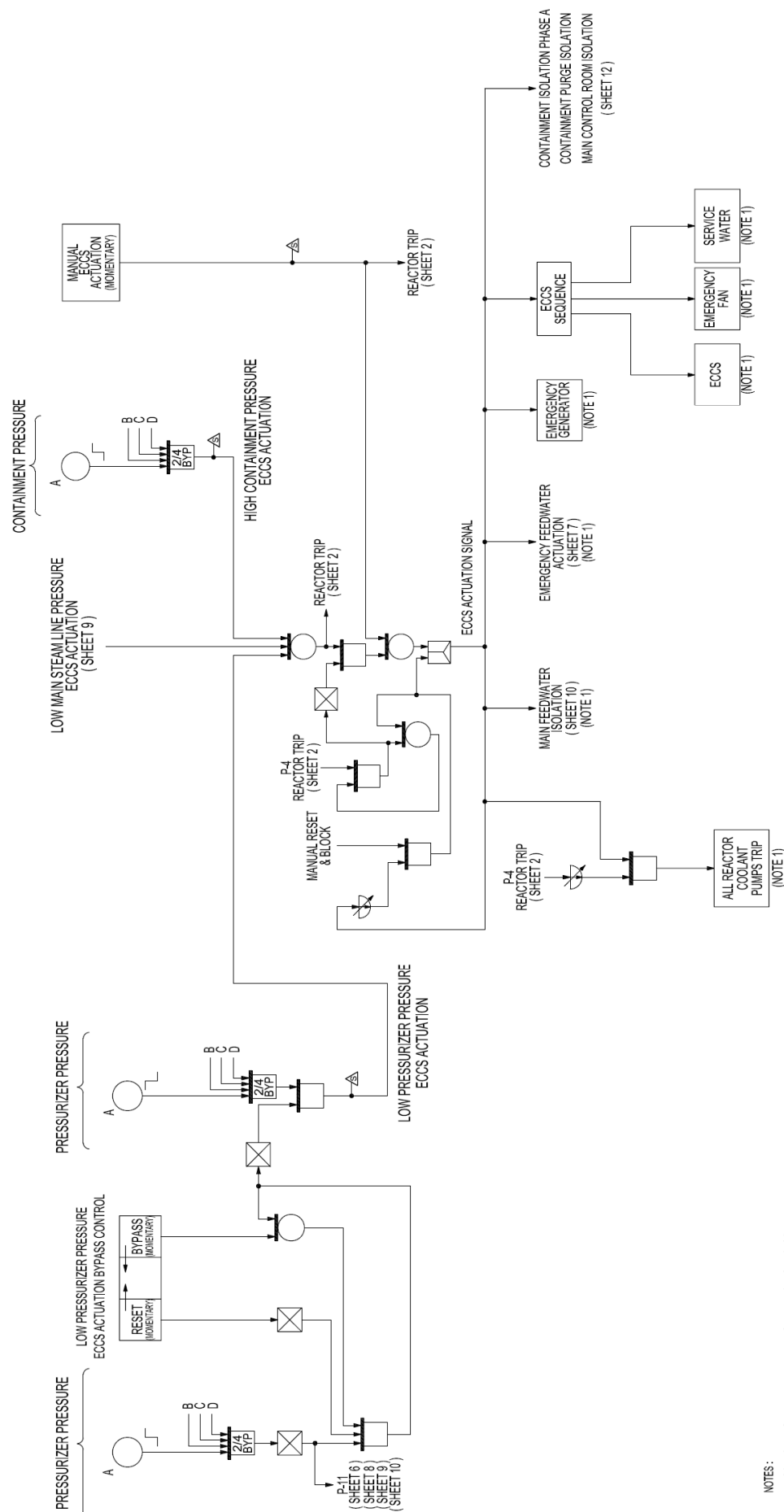
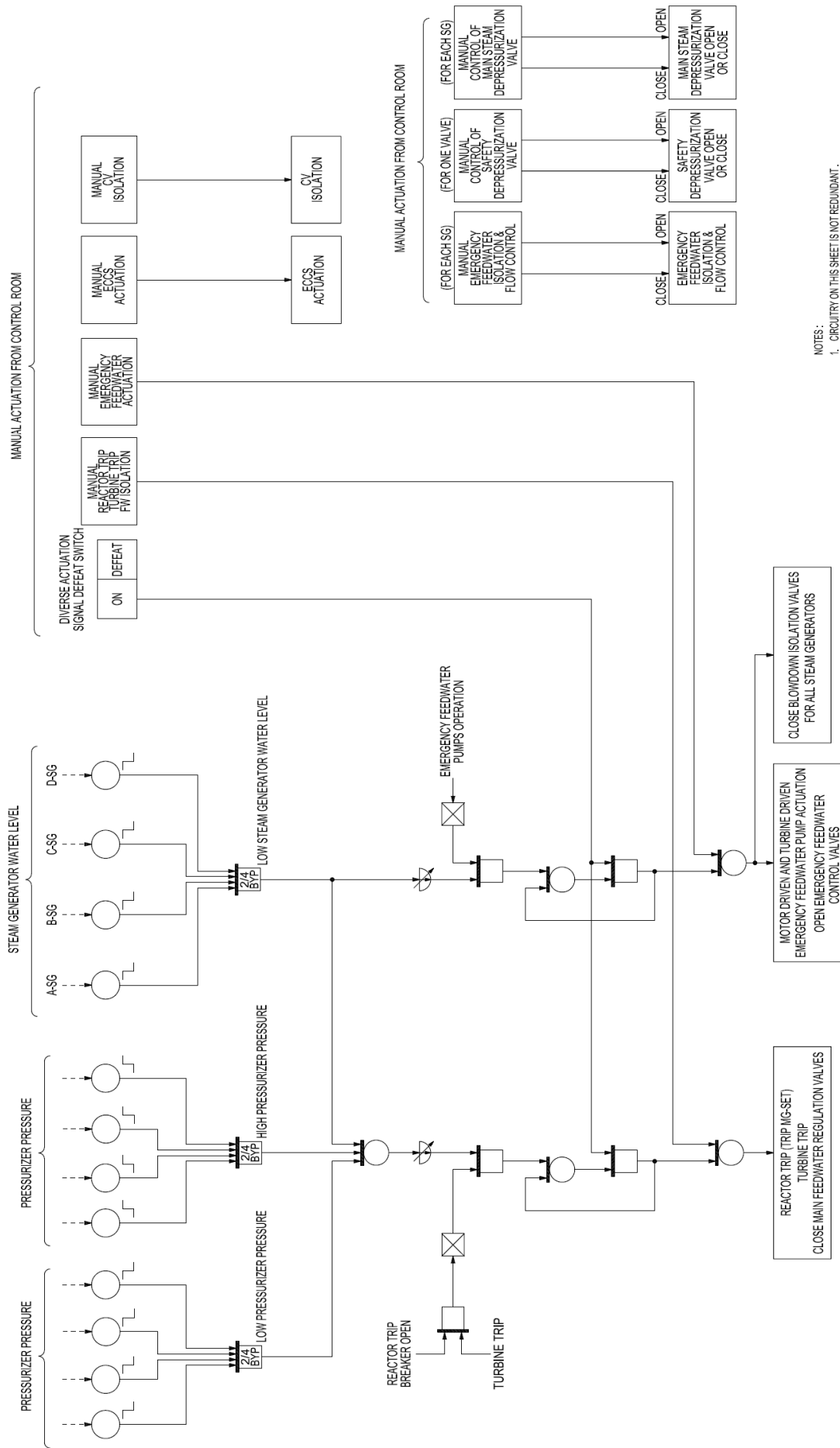


Figure 8-6
 Configuration of Engineered Safety Features Actuation System
 And Safety Logic System



NOTES:
 1. COMPONENTS ARE ALL INDIVIDUALLY SEALED (W/ATCHED), SO THAT LOSS OF THE ACTUATION SIGNAL WILL NOT CAUSE THESE COMPONENTS TO RETURN TO THE CONDITION HELD PRIOR TO THE ADVENT OF THE ACTUATION SIGNAL.

Figure 8-7
 Functional Diagram – ECCS Actuation



NOTES:
1. CIRCUITRY ON THIS SHEET IS NOT REDUNDANT.

Figure 8-8
DAS Functional Diagram