

# ESFAS

## Chapter 10.3



# Objectives

1. State the purposes of the engineered safety features actuation systems (ESFAS).
2. List the inputs, actuation systems, and examples of components that are actuated by the ESFAS.
3. Explain the ESFAS logic.
4. Describe the sequence of events (flow path), beginning at the sensor up to and including the start of an ESF component, that occurs when an accident condition is sensed.

# Objectives (Cont)

5. Explain how the ESF actuation system(s) is/are designed with redundancy.
6. Explain how ESF systems are bypassed during a normal plant shutdown.
7. Deleted

Figure 10.3-1 ESF Organization

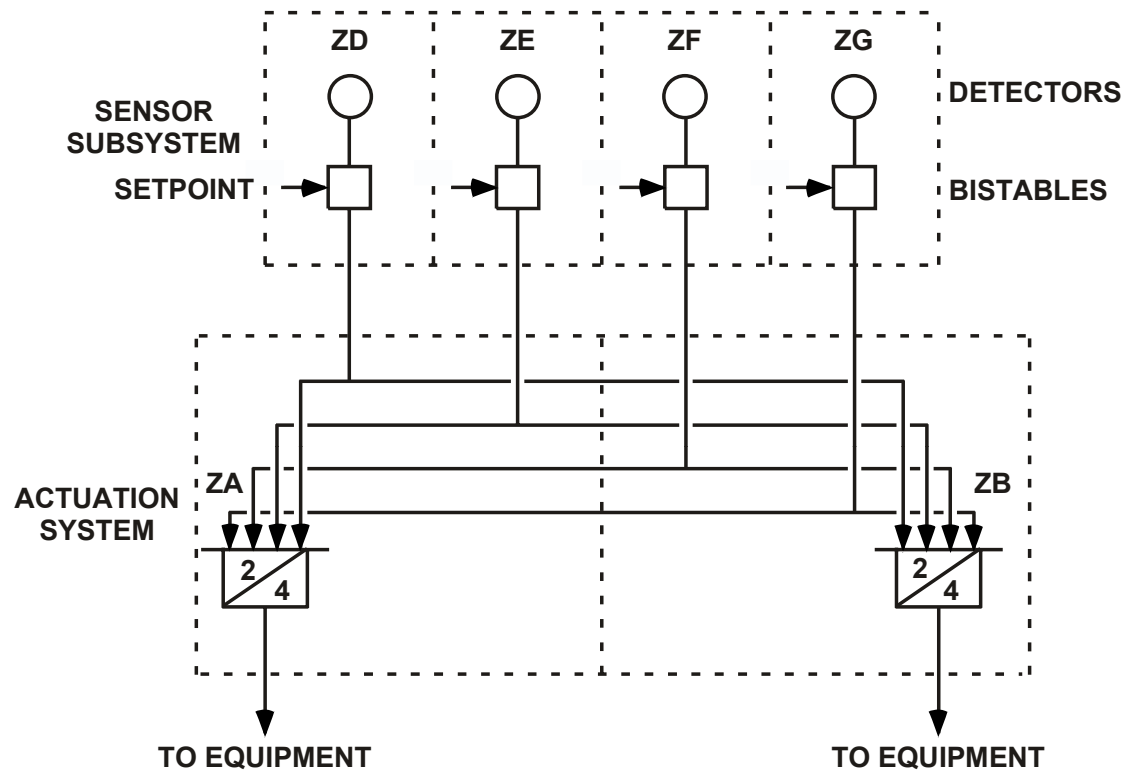


Figure 10.3-2 Safety Injection Actuation Signal Logic

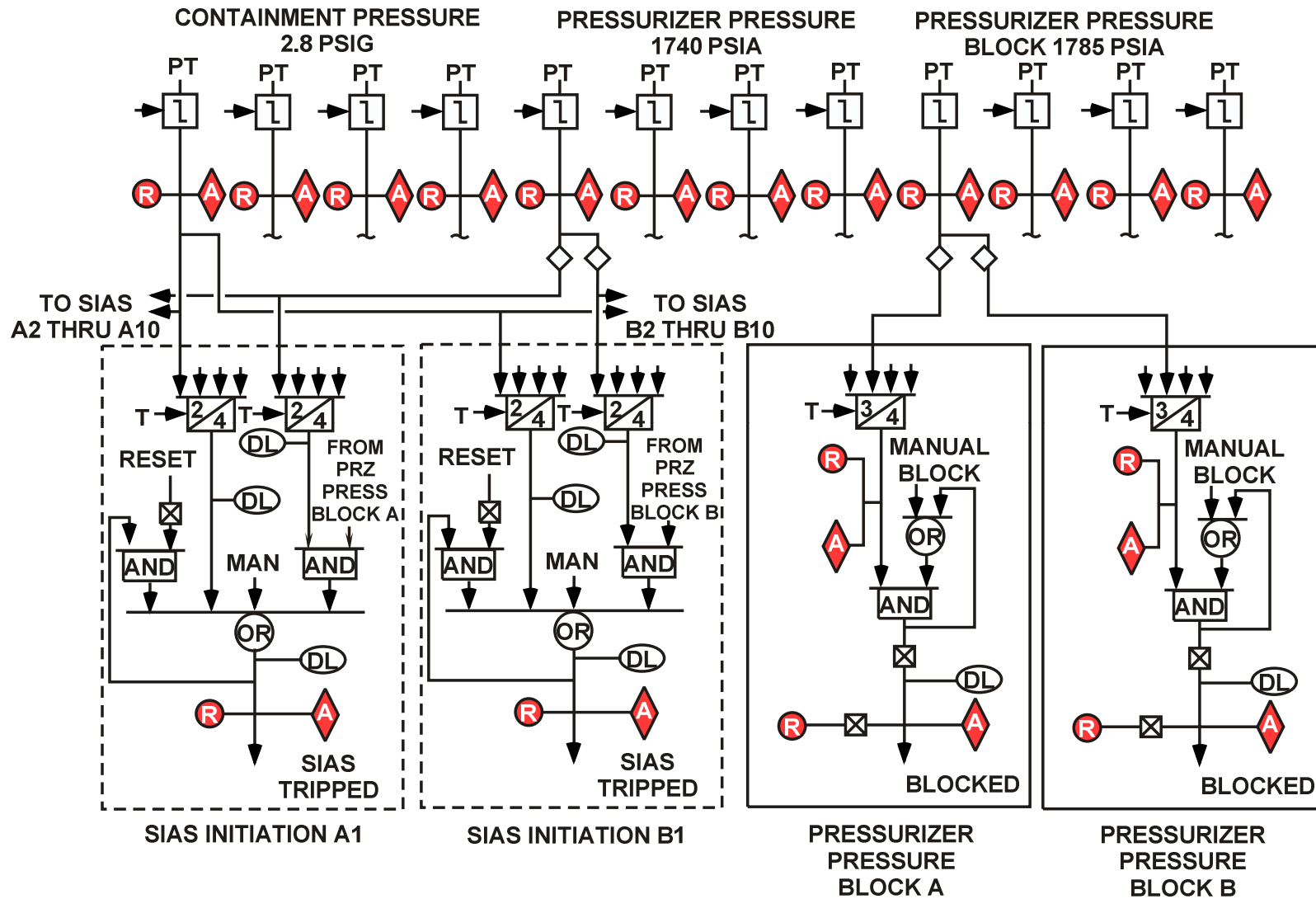


Figure 10.3-3 Containment Isolation Actuation Signal Logic

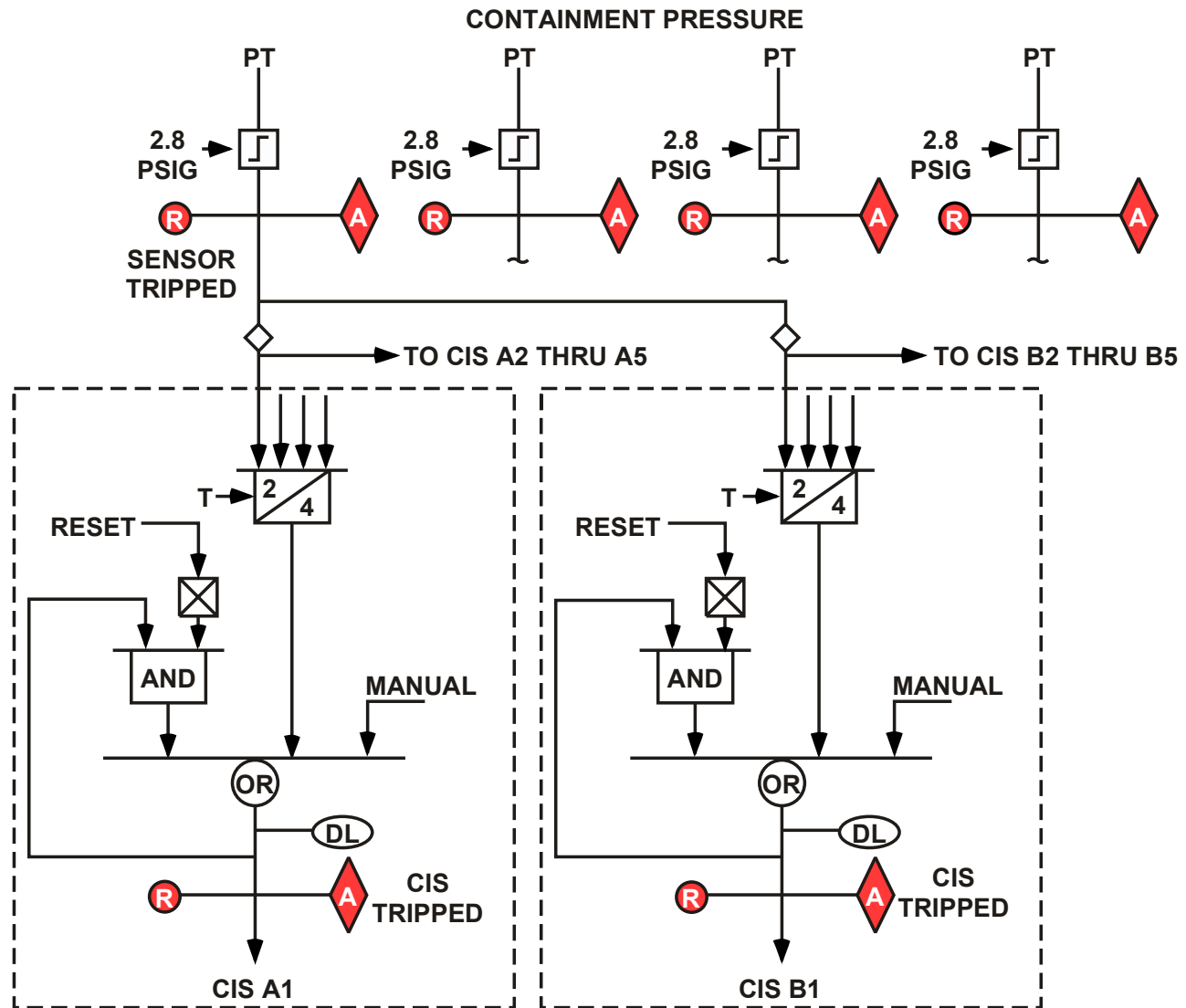


Figure 10.3-4 Containment Spray Actuation Signal Logic

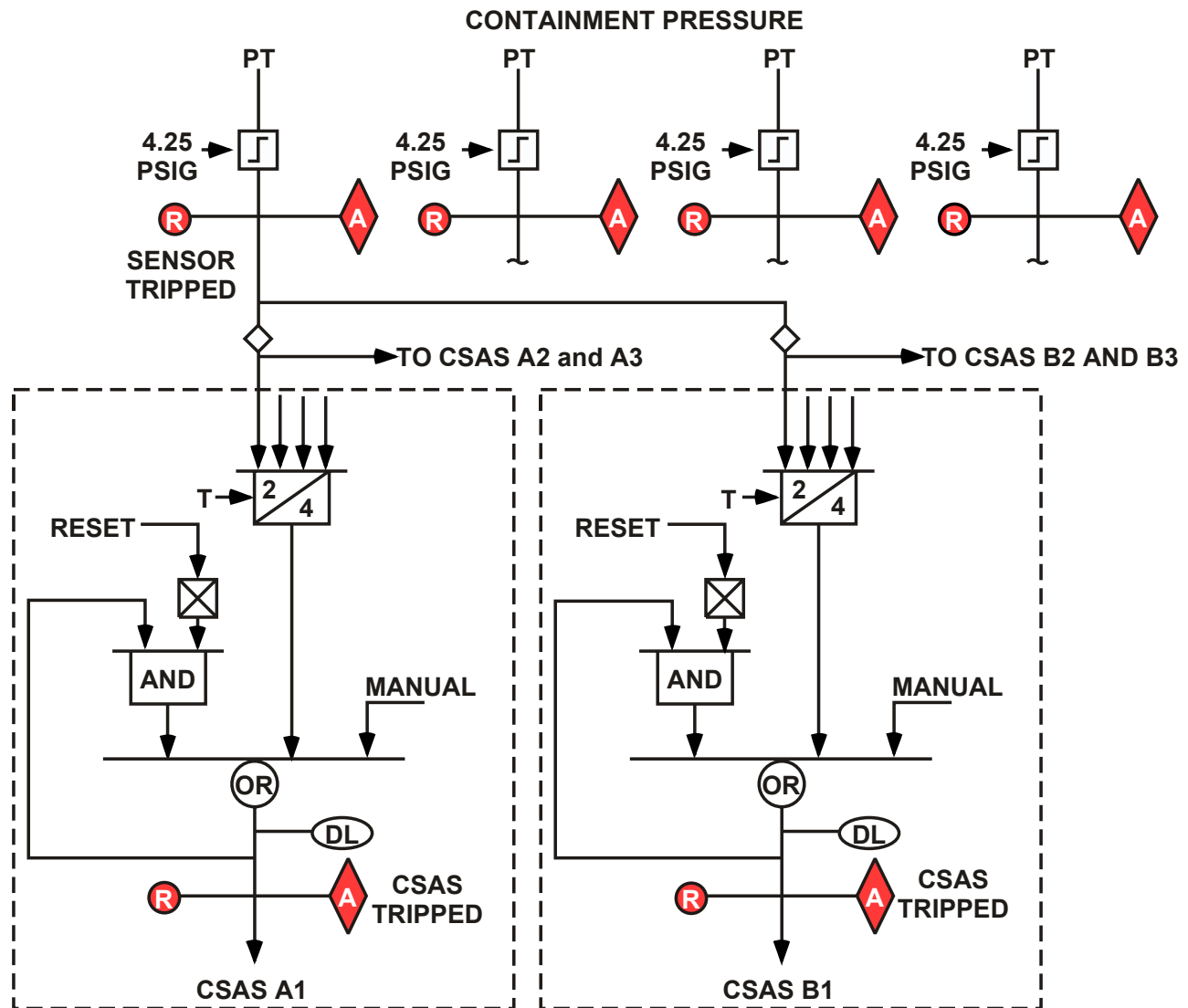


Figure 10.3-5 Recirculation Actuation Signal Logic

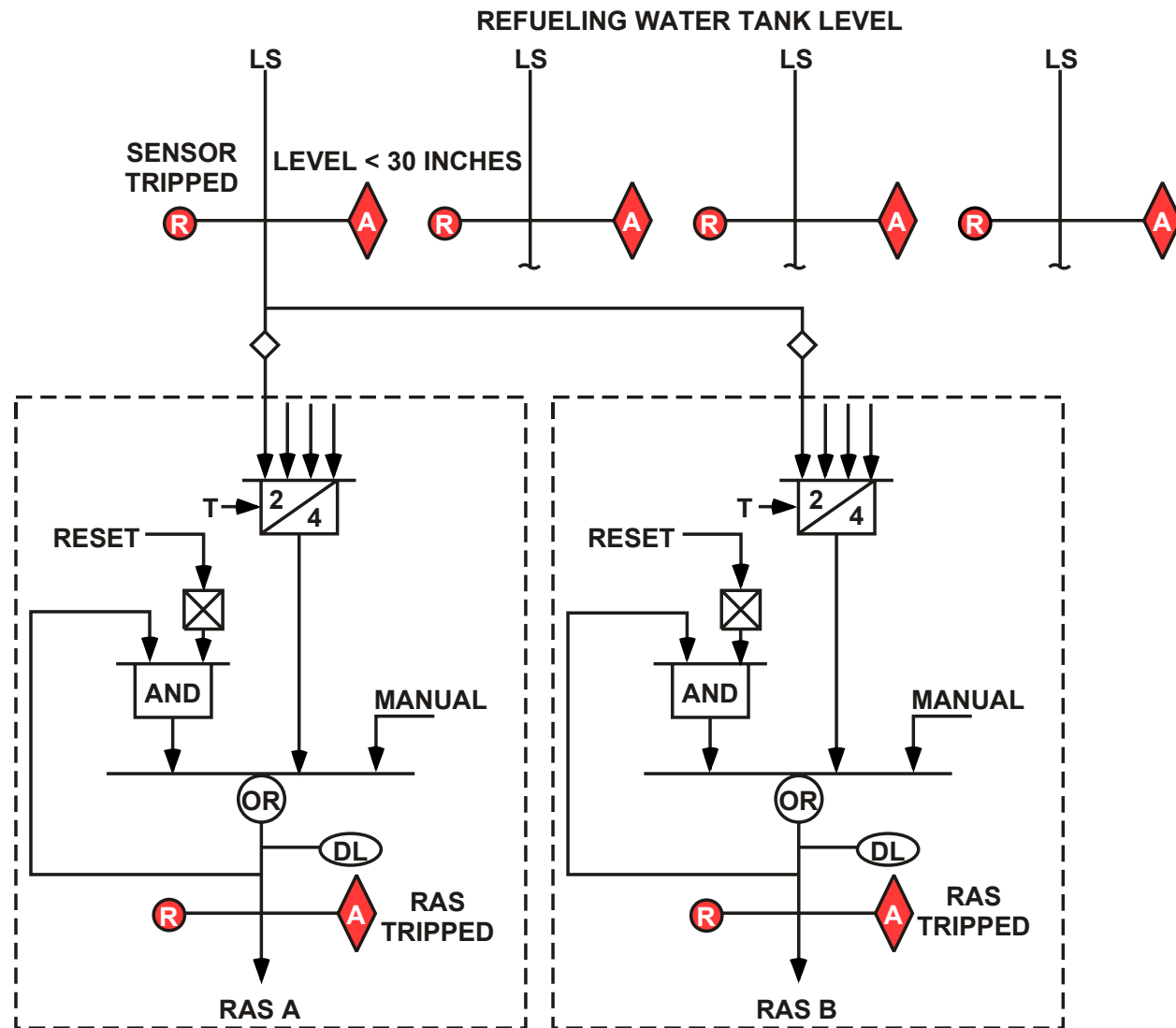




Figure 10.3-6 Steam Generator Isolation Signal Logic

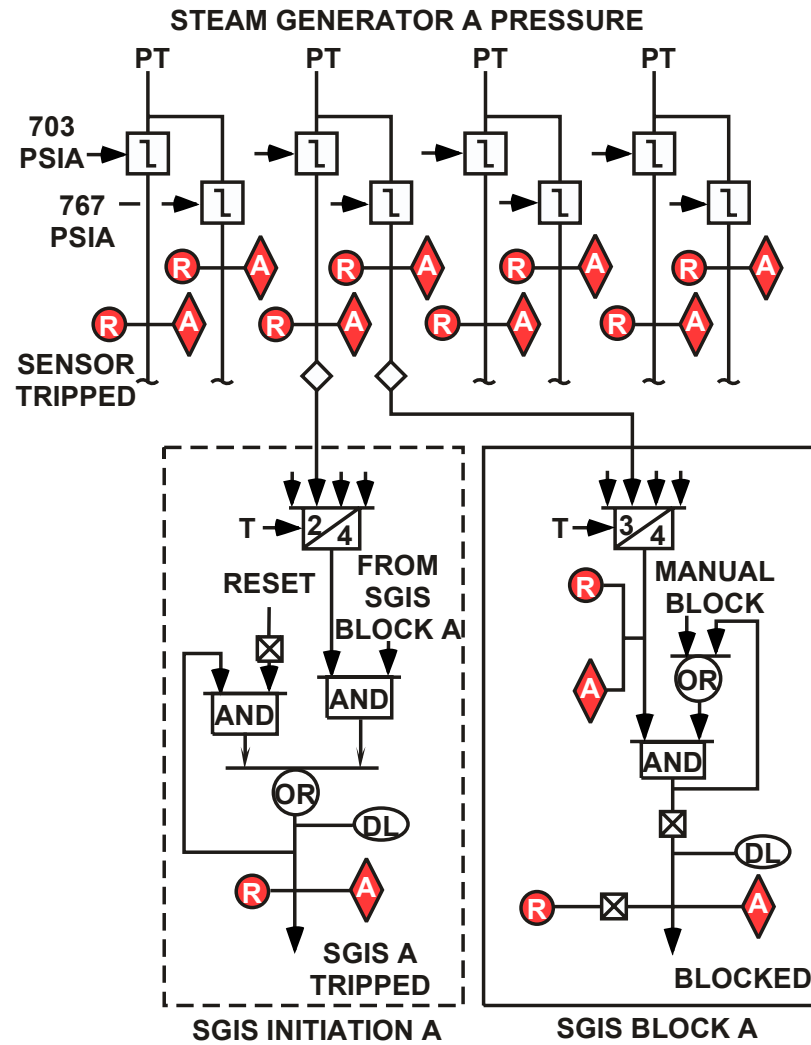


Figure 10.3-7 Steam Generator Isolation Actuation

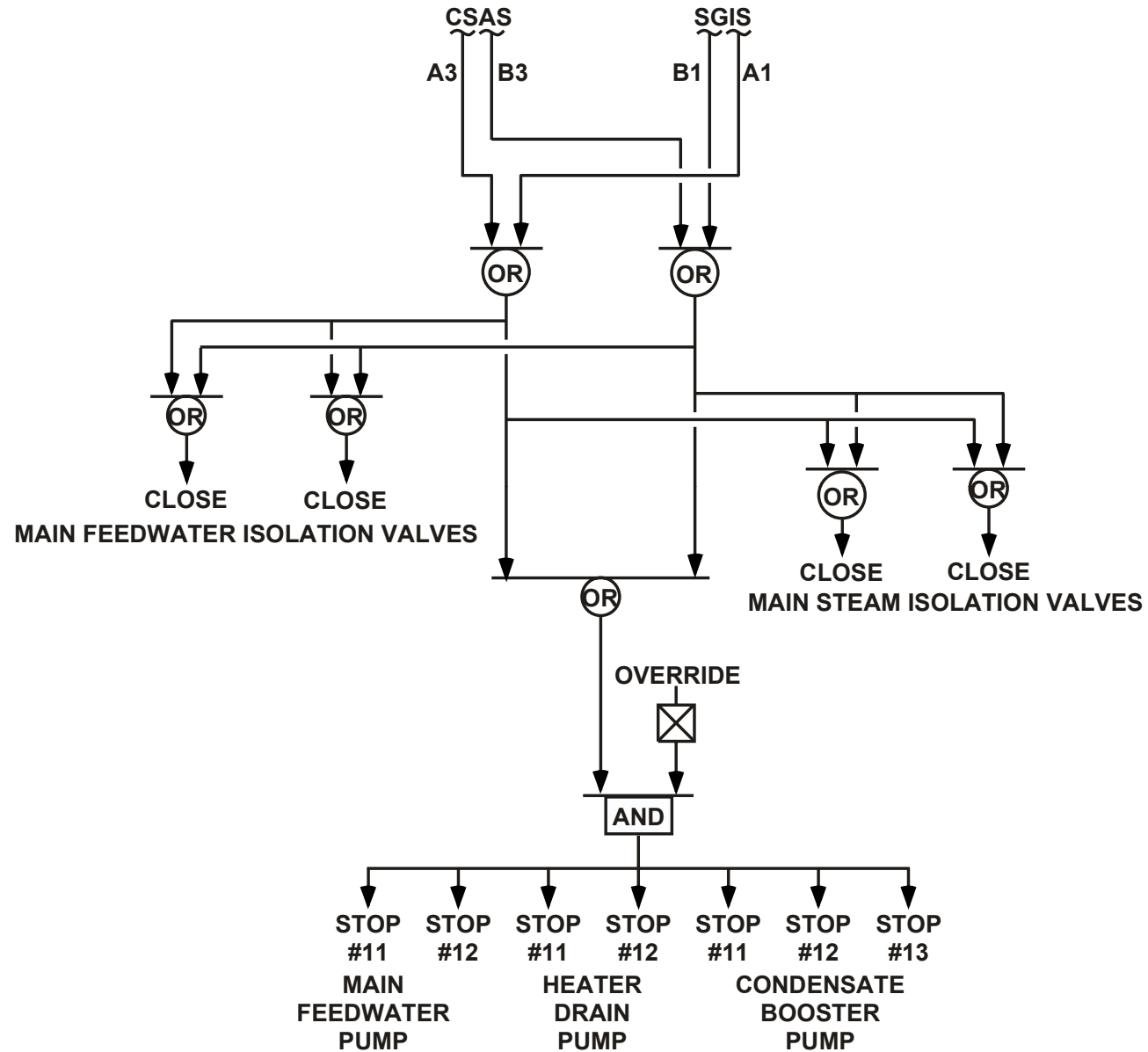
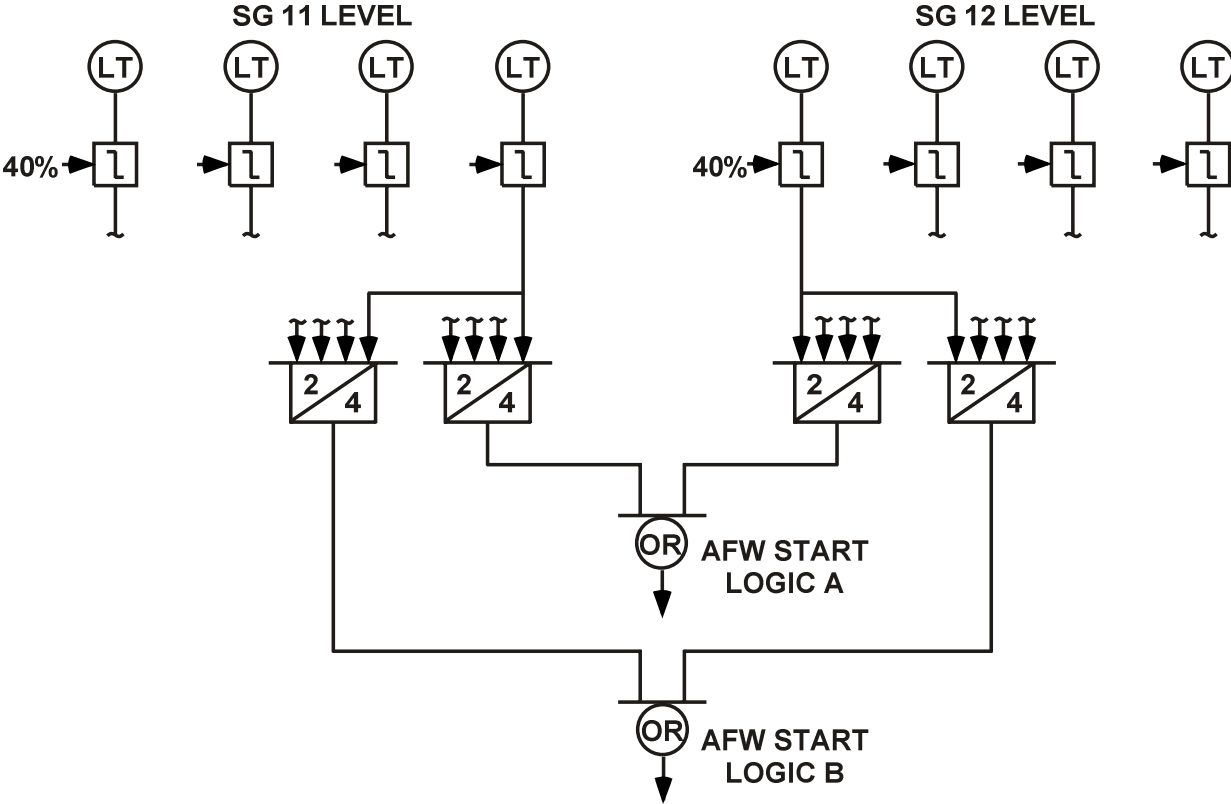


Figure 10.3-8 AFW Actuation Signal Logic



**The End**