Figure 7.1-20—Implementation of Independence Between Safety and Non-Safety I&C
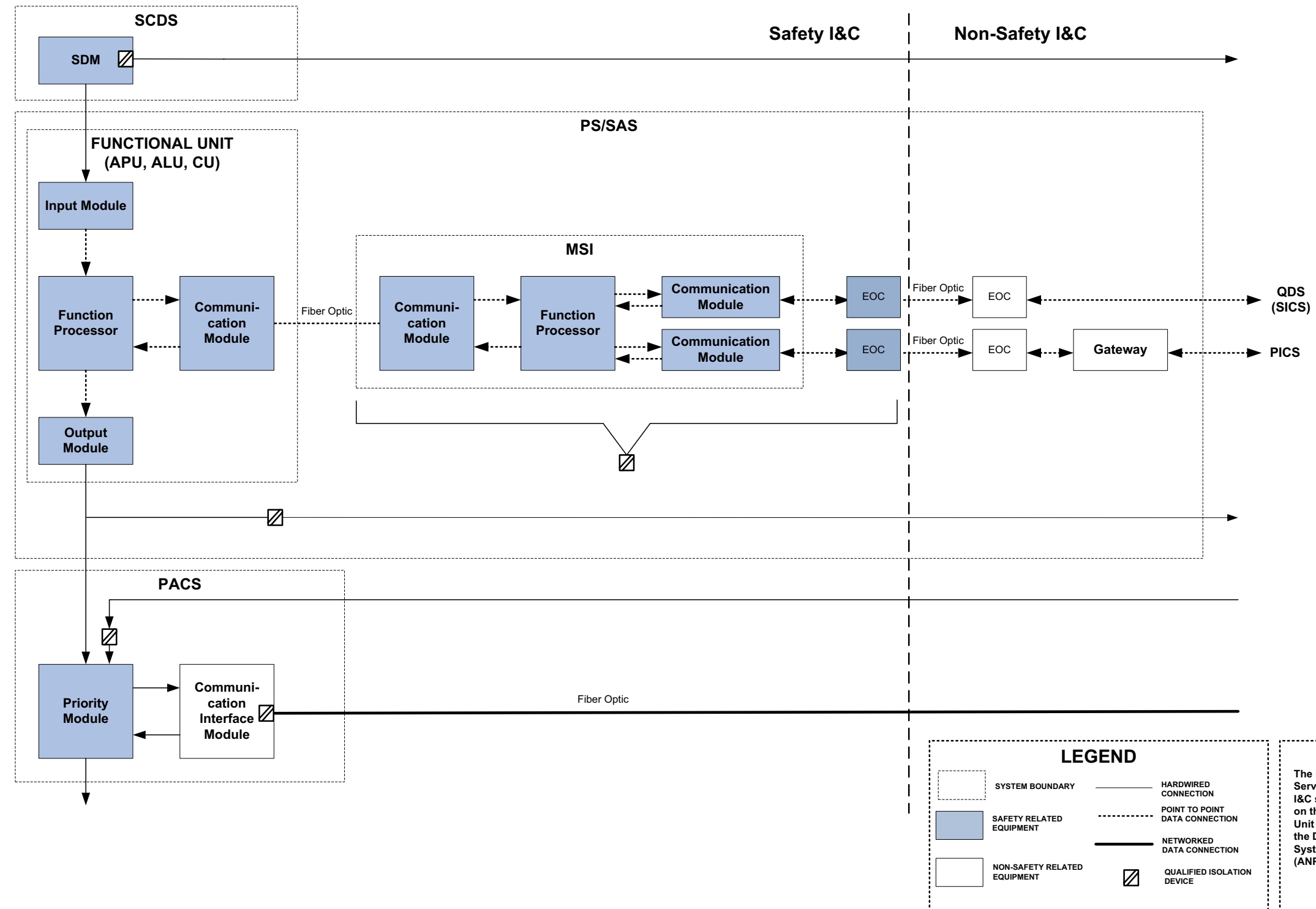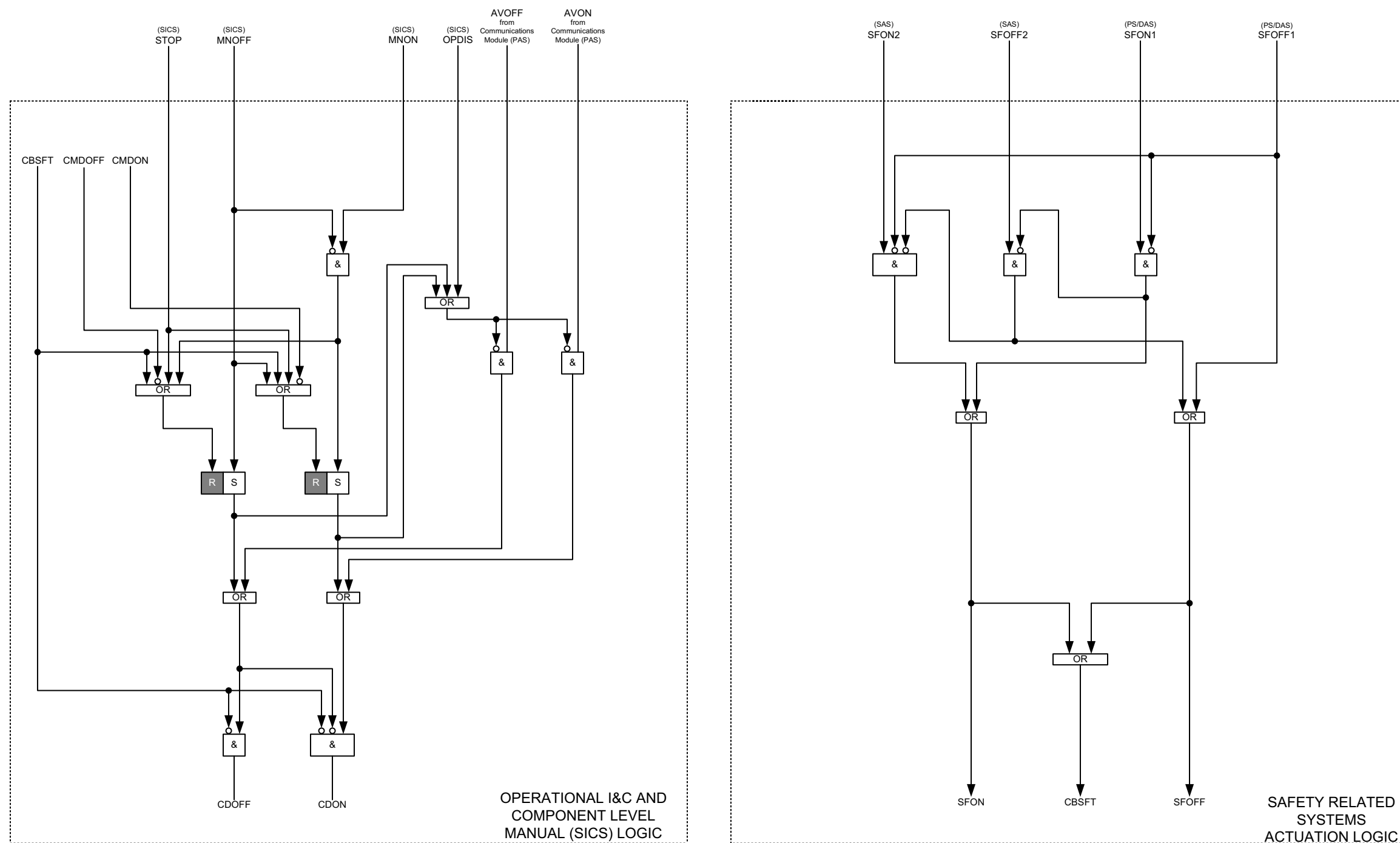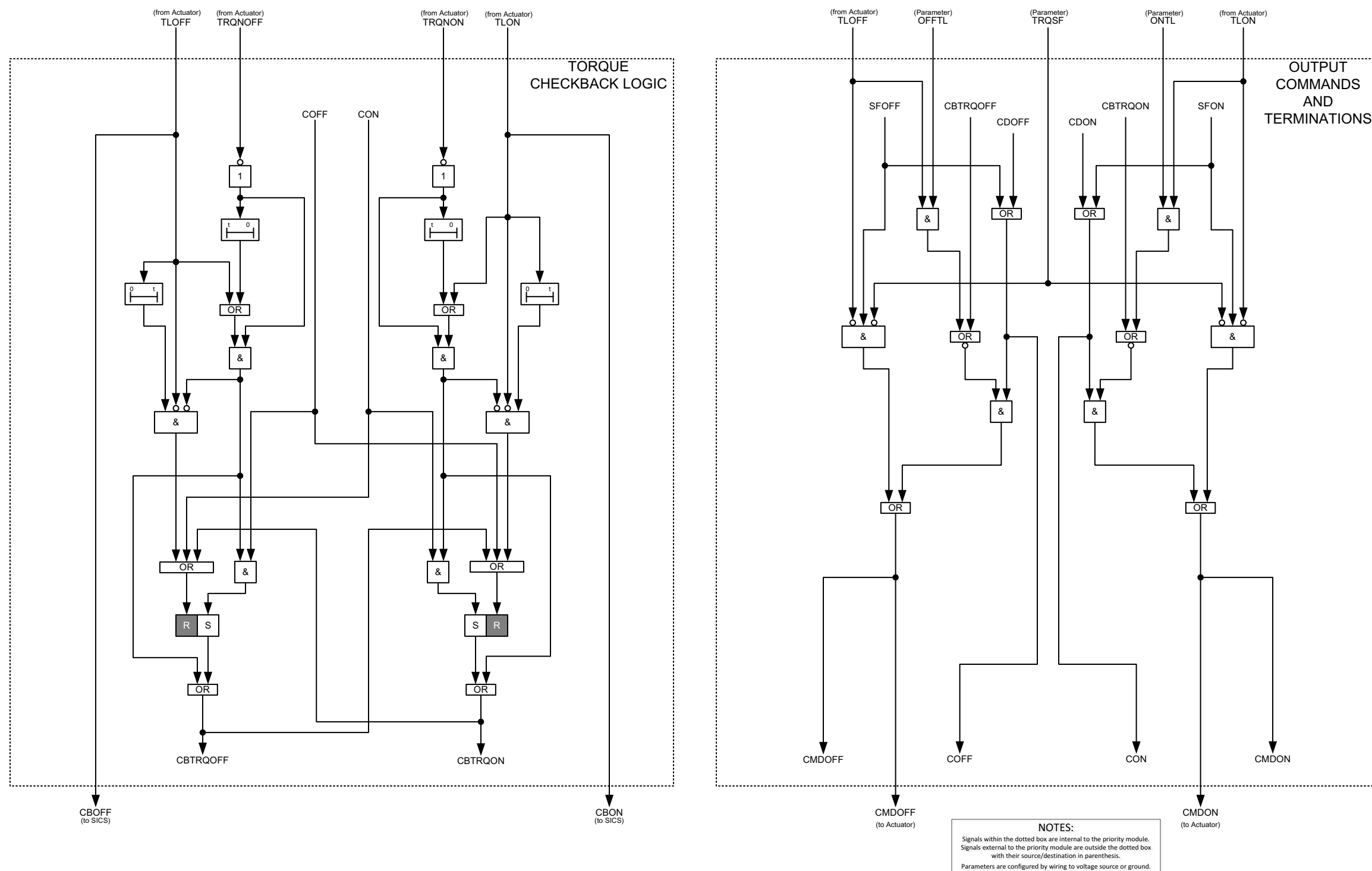
Figure 7.1-21—PACS Priority Module Logic Diagram
Sheet 1 of 2

OPERATIONAL I&C AND
COMPONENT LEVEL
MANUAL (SICS) LOGIC

SAFETY RELATED
SYSTEMS
ACTUATION LOGIC

NOTES:
Signals within the dotted box are internal to the priority module.
Signals external to the priority module are outside the dotted box
with their source/destination in parenthesis.

EPR3099 T2

Figure 7.1-21—PACS Priority Module Logic Diagram
Sheet 2 of 2

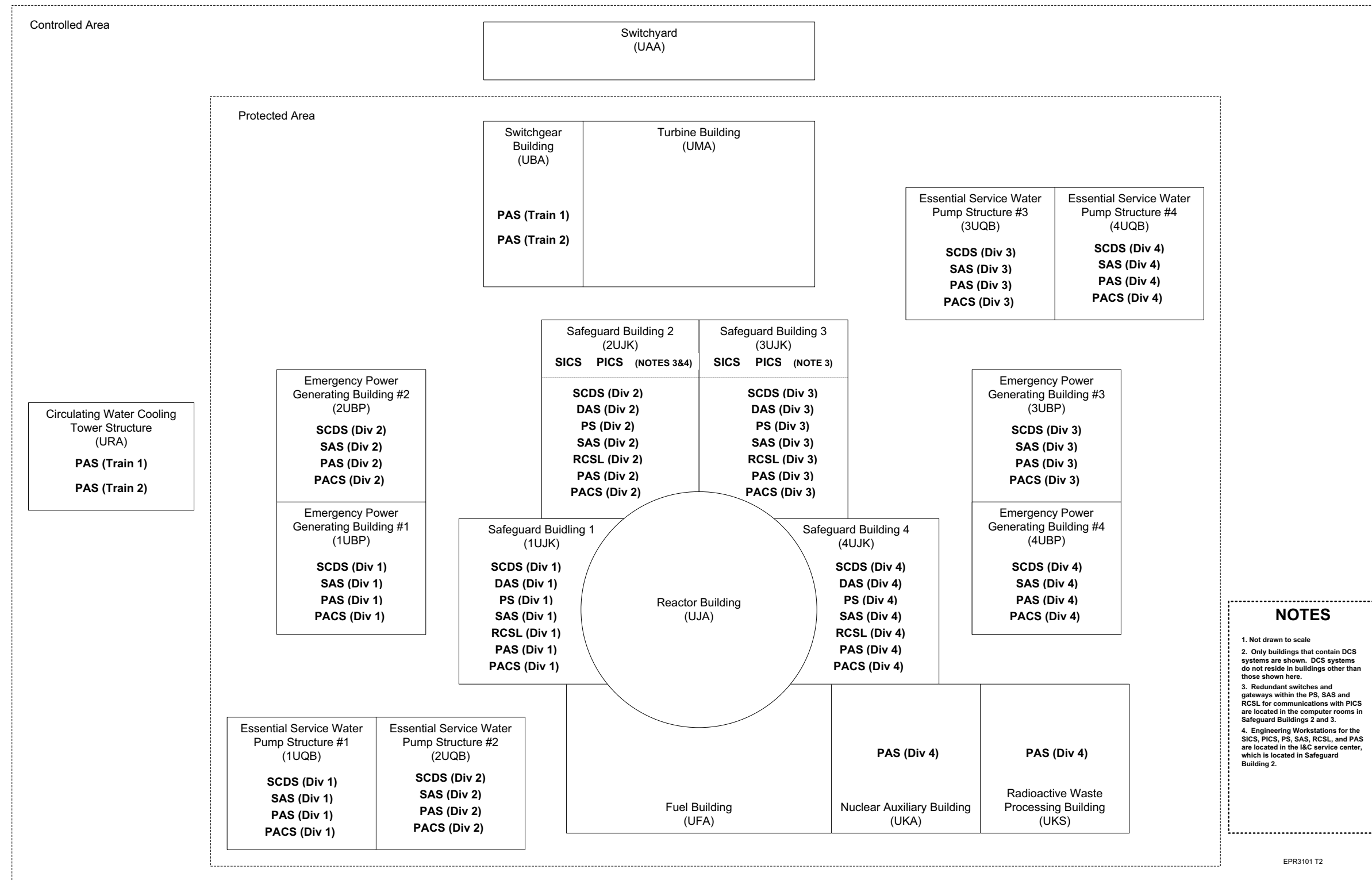**Figure 7.1-22—Distributed Control System Physical Architecture**

Figure 7.1-23—Signal Conditioning and Distribution System Architecture

SIGNAL CONDITIONING AND DISTRIBUTION SYSTEM

NOTES

1. MULTIPLE SIGNAL CONDITIONING MODULES OR SIGNAL DISTRIBUTION MODULES MAY BE USED AS NEEDED.

2. FOR DISTRIBUTION OF SPND SIGNALS, EACH DIVISION OF SCDS SENDS 18 SPND SIGNALS TO ALL FOUR PS DIVISION.

LEGEND

SYSTEM BOUNDARY

HARDWIRED CONNECTION

SAFETY RELATED (SR) EQUIPMENT

NON-SAFETY RELATED (NSR) EQUIPMENT
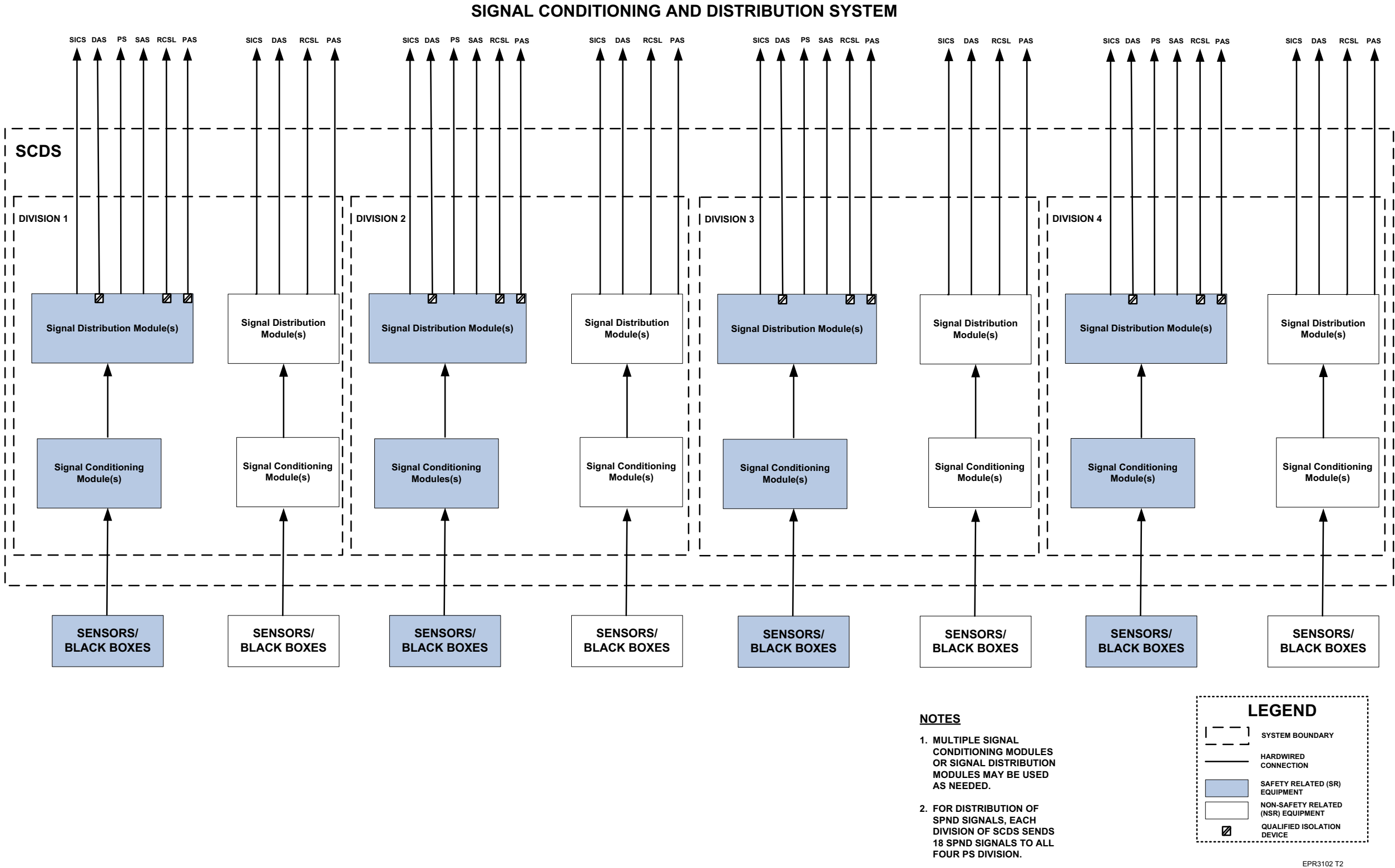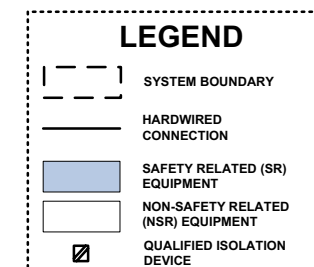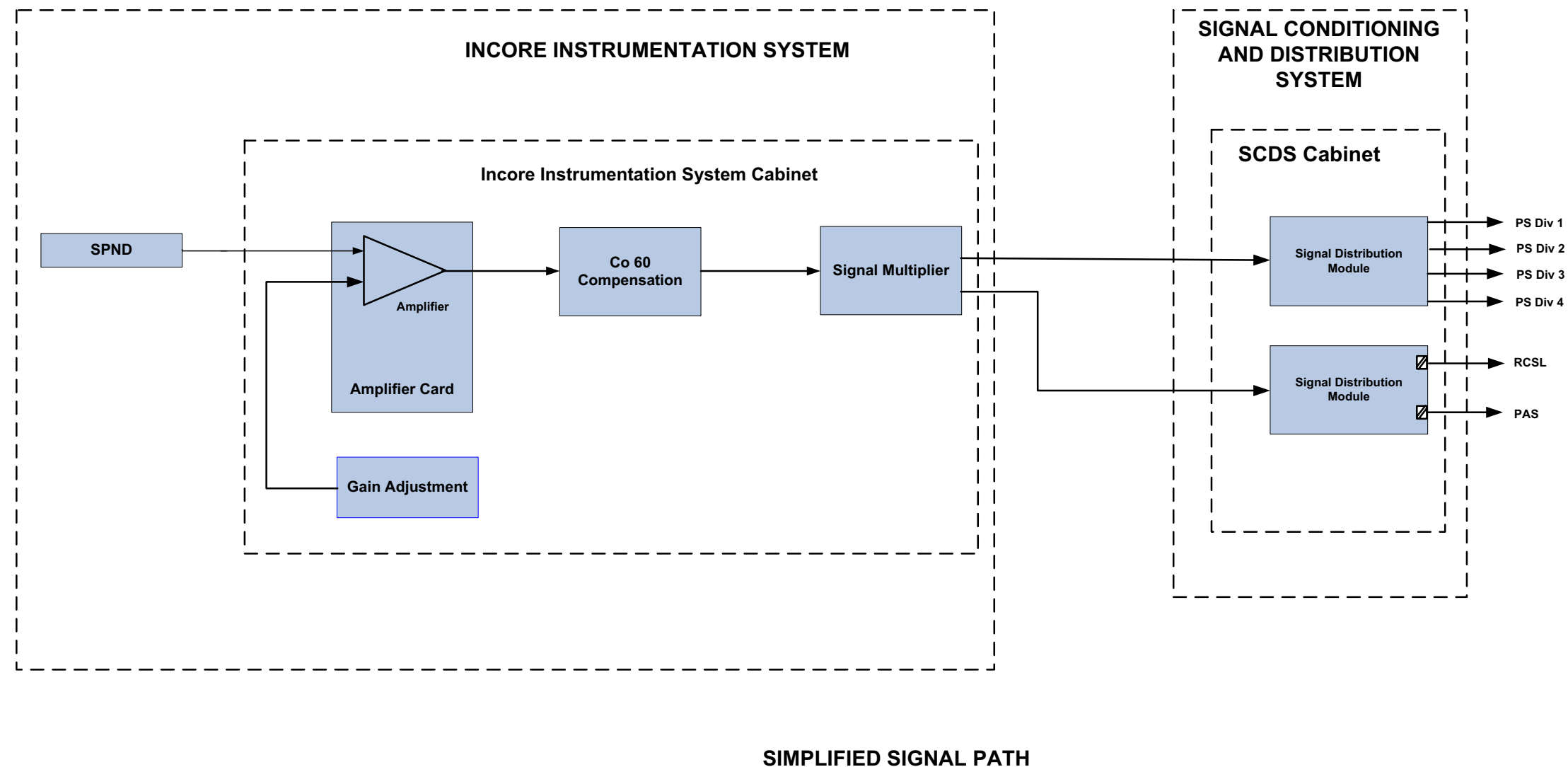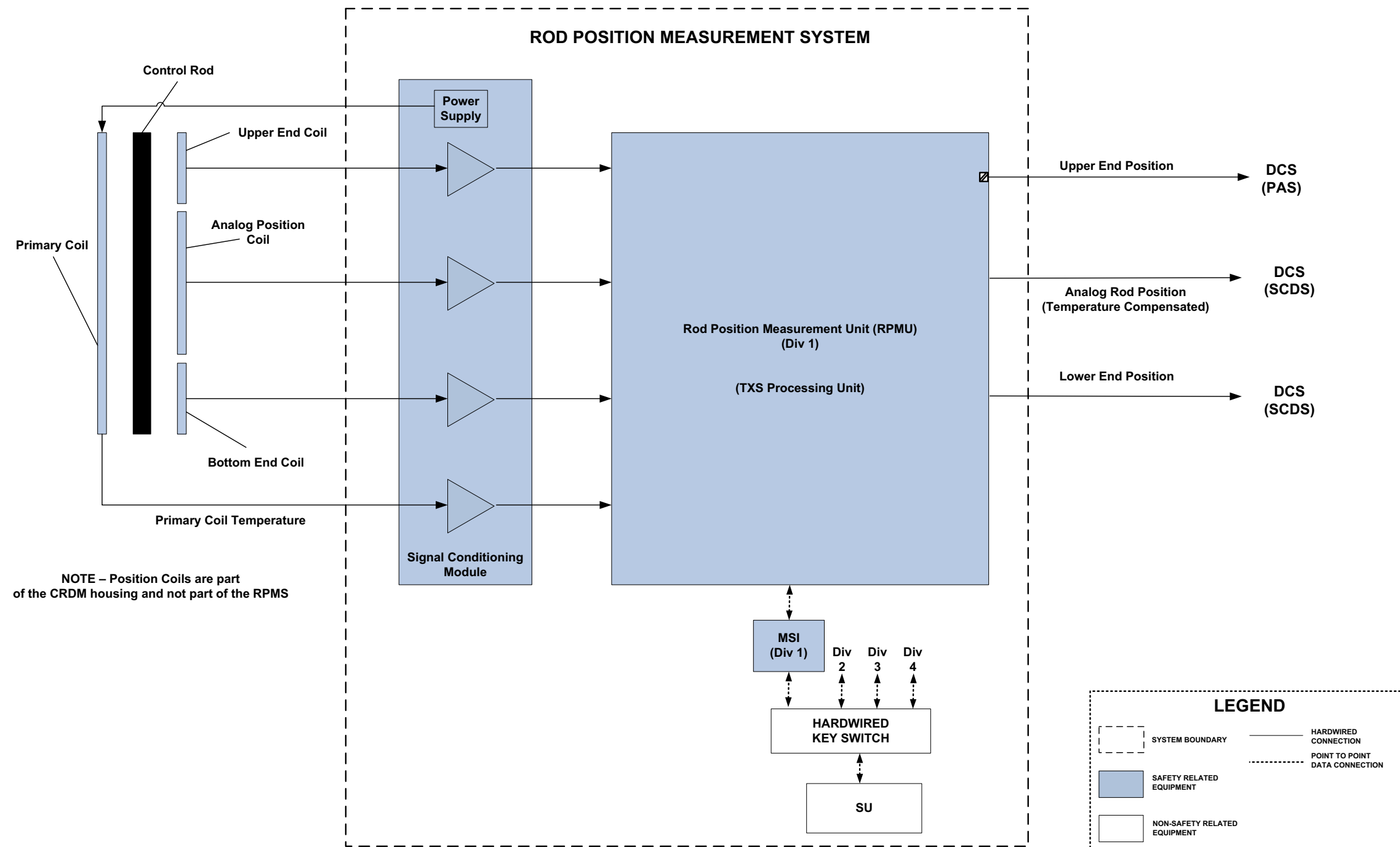
QUALIFIED ISOLATION DEVICE

EPR3102 T2

Figure 7.1-24—Self Powered Neutron Detector Functional Arrangement
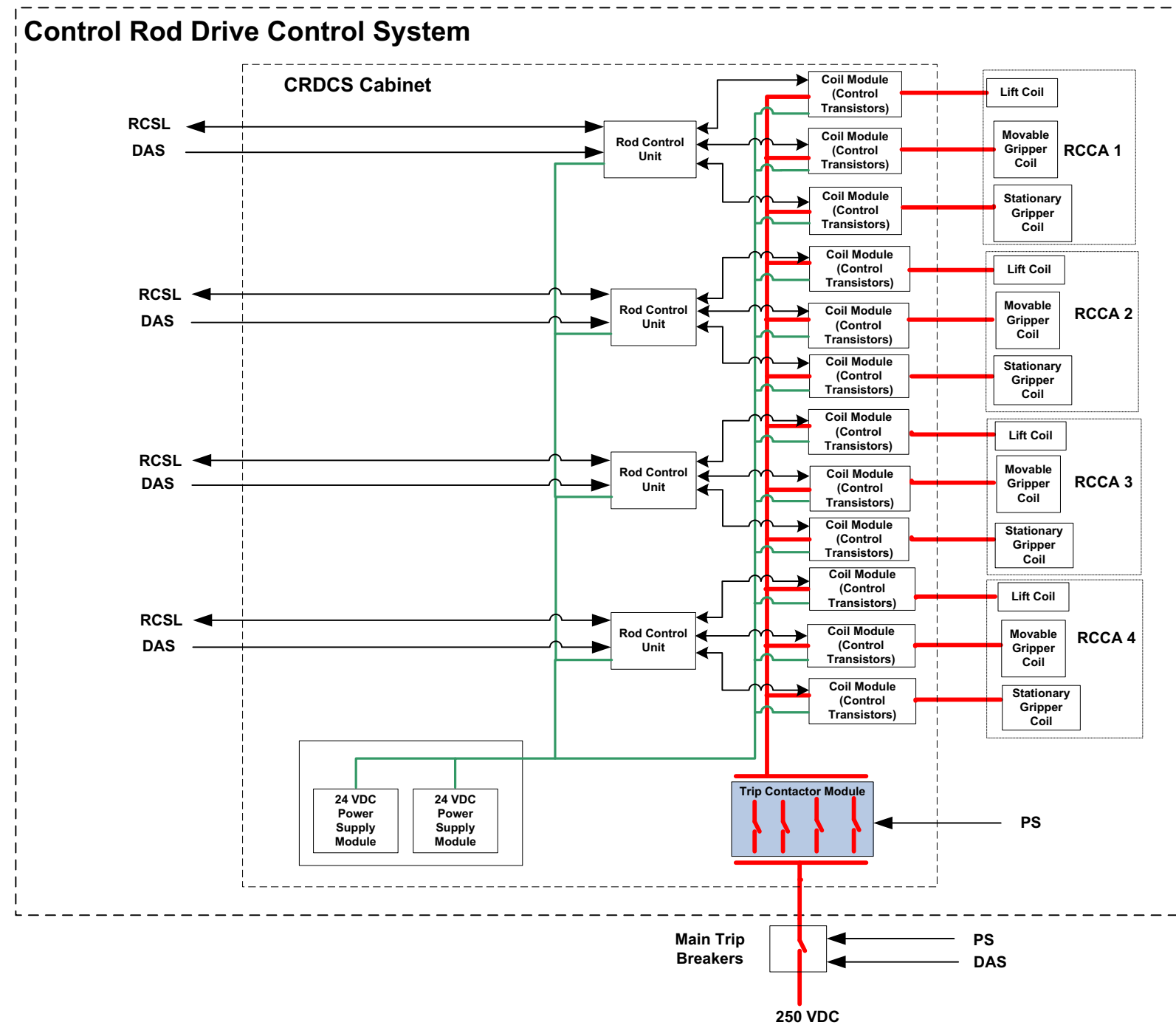

SIMPLIFIED SIGNAL PATH

EPR3103 T2

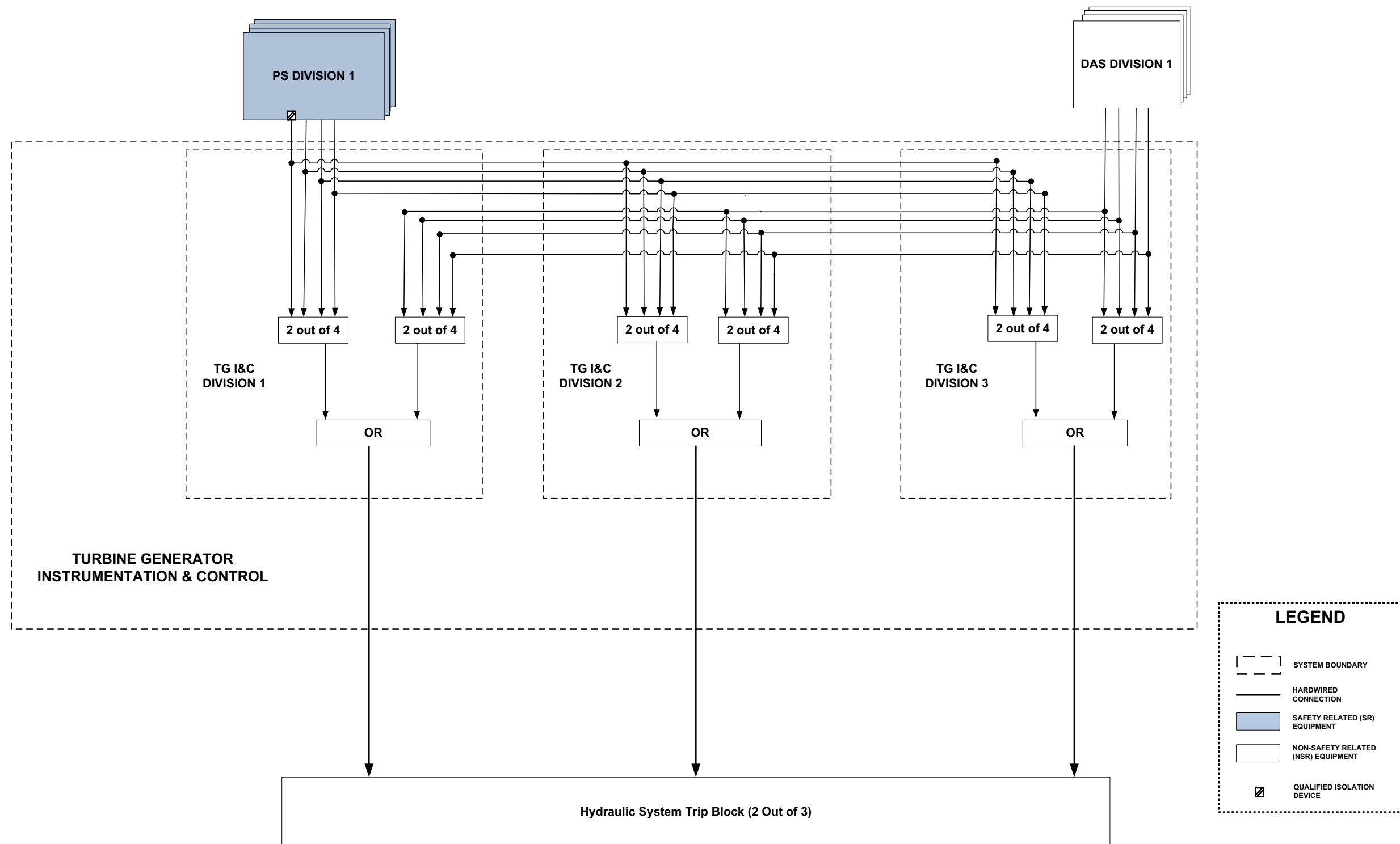**Figure 7.1-25—Rod Position Measurement System Arrangement**

Figure 7.1-26—Control Rod Drive Control System Arrangement

EPR3106 T2

Figure 7.1-27—Turbine Trip Logic within Turbine Generator I&C

EPR3428 T2