

Figure 7.1-7—Safety Automation System Architecture

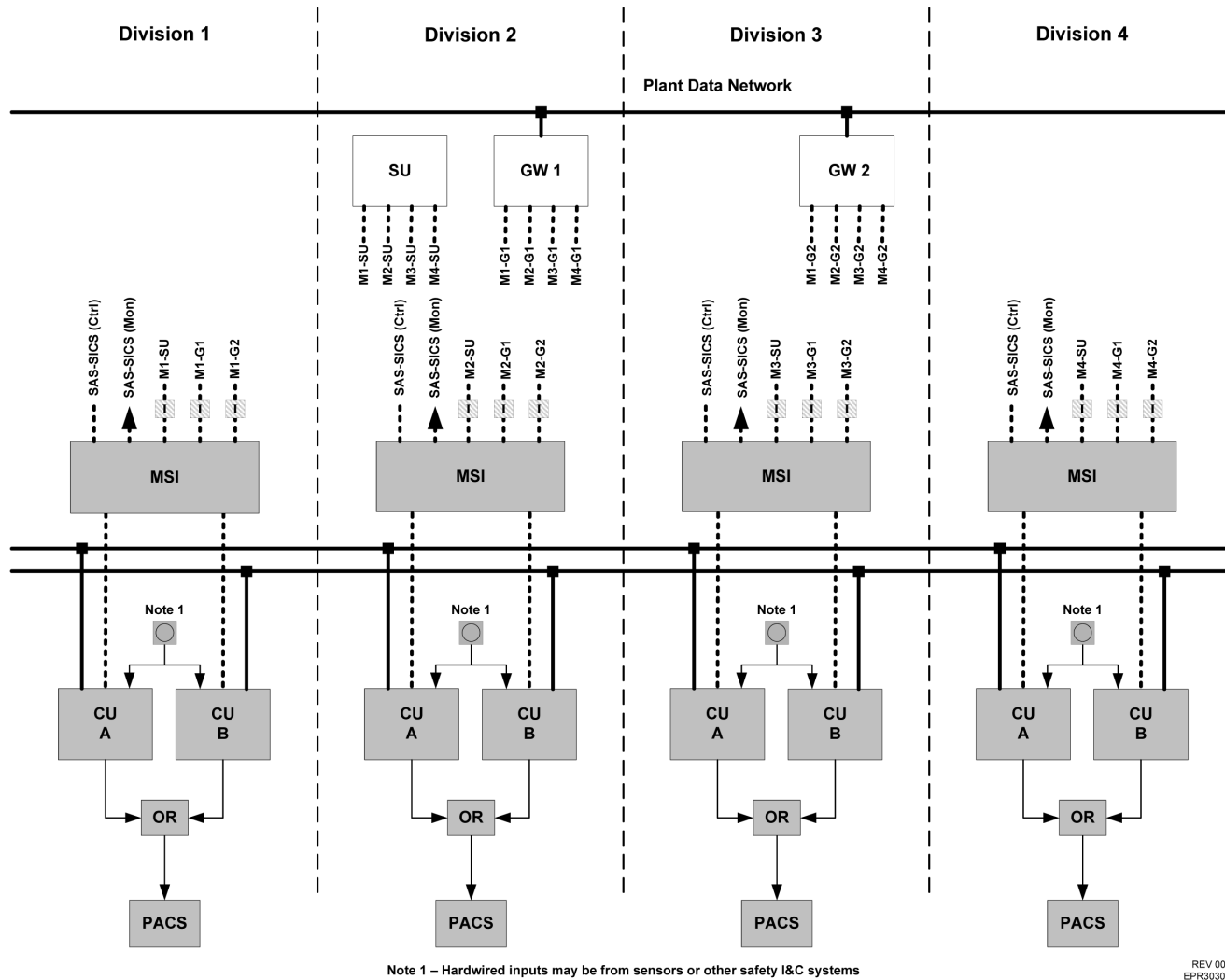
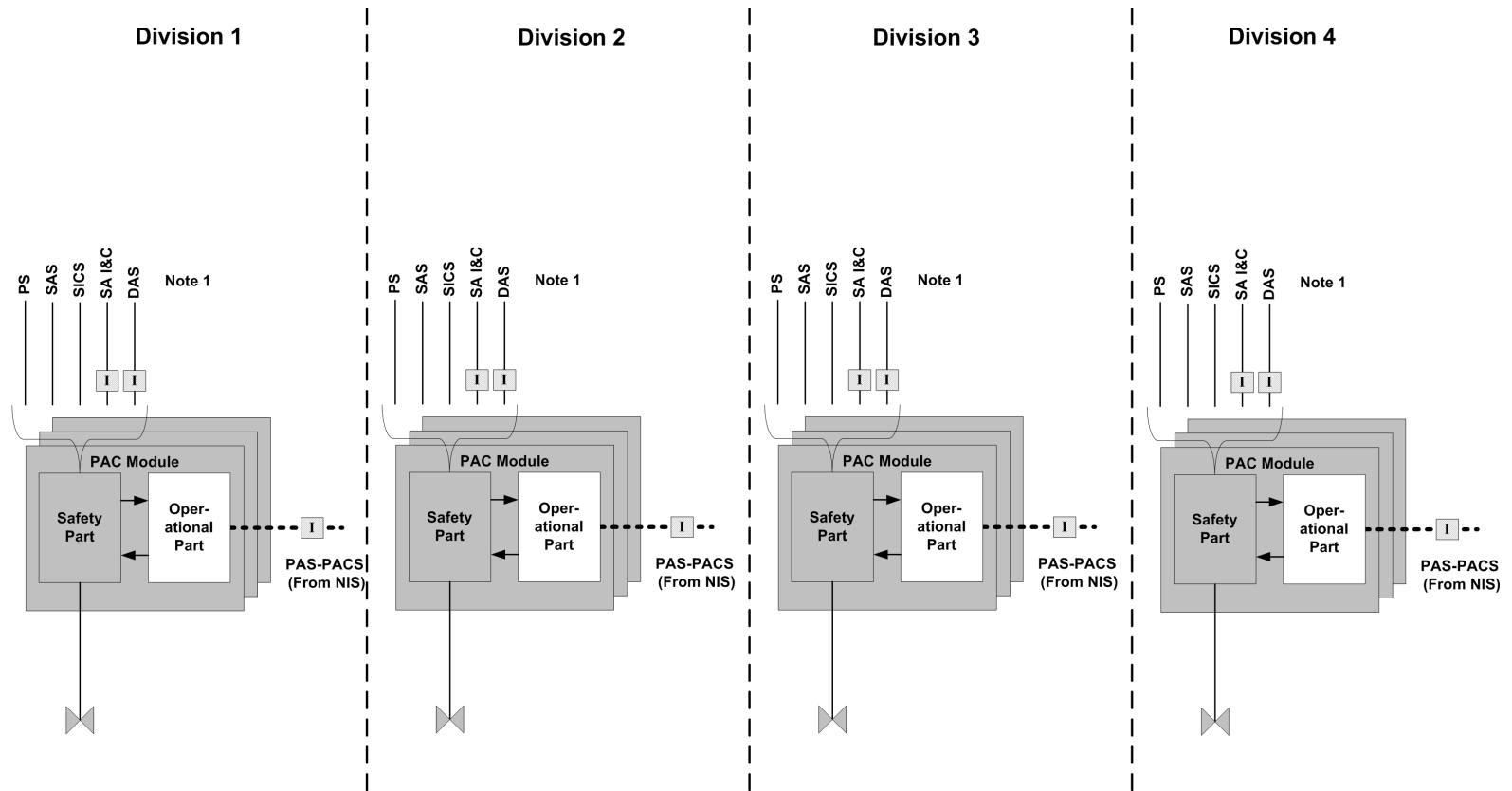


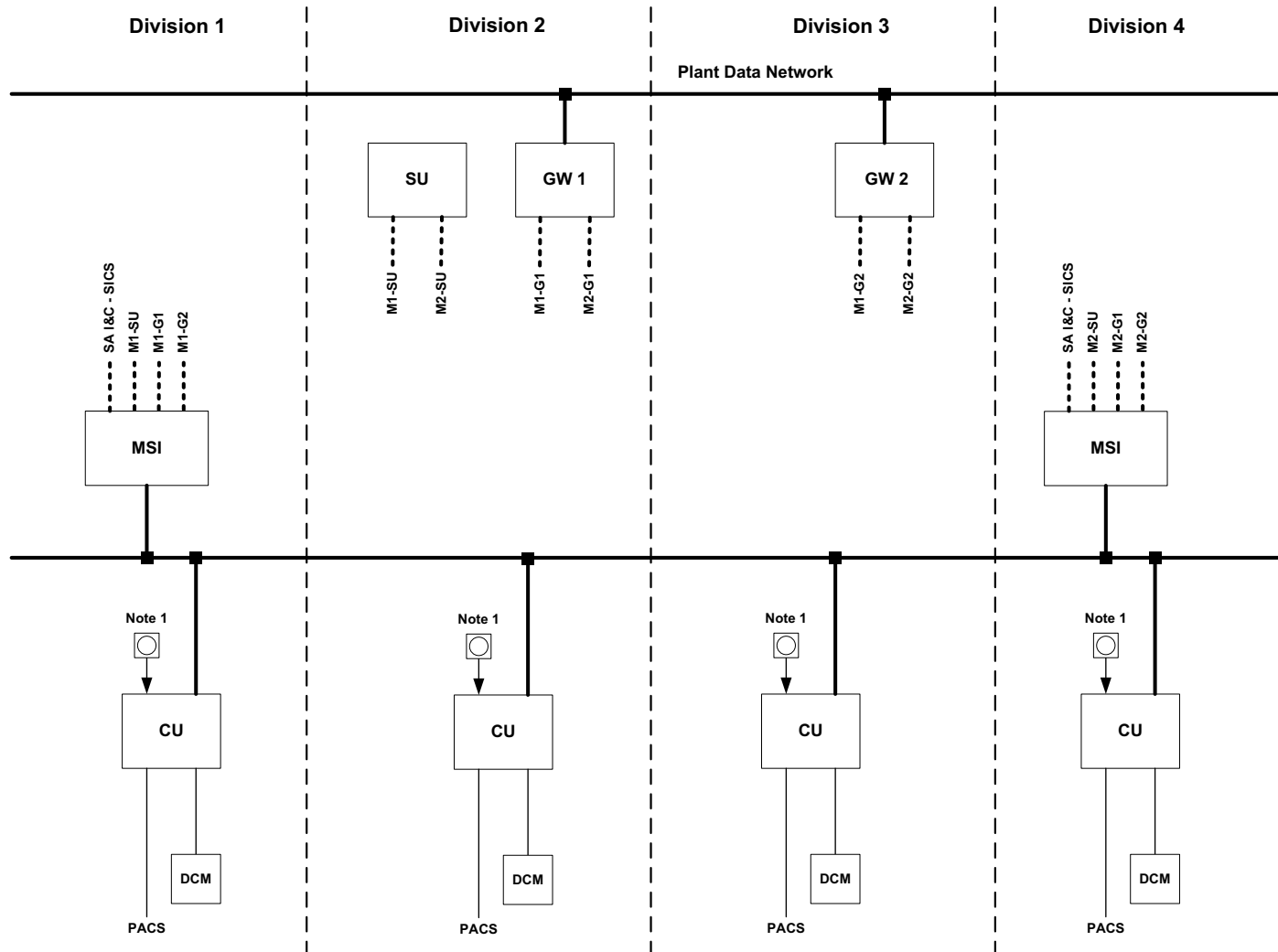
Figure 7.1-8—Priority and Actuator Control System Architecture



Note 1 – The assignment of the hardwired inputs is in accordance with the functional requirements for the actuator and the priority principles

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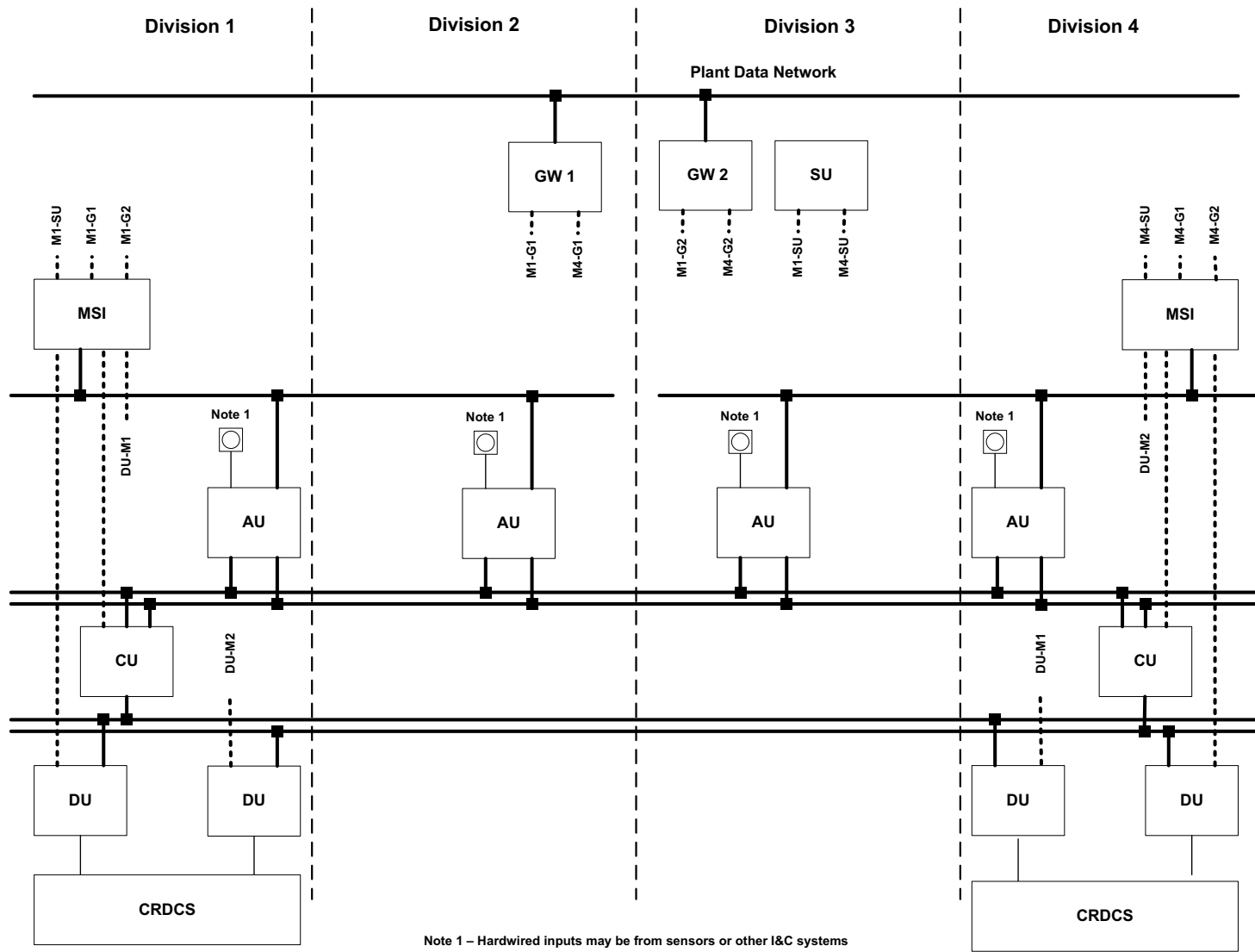
Figure 7.1-9—Severe Accident I&C System Architecture



Note 1 – Hardwired inputs may be from sensors or other I&C systems

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Figure 7.1-10—Reactor Control, Surveillance, and Limitation System Architecture



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Figure 7.1-11—Process Automation System Architecture (Nuclear Island Subsystem)

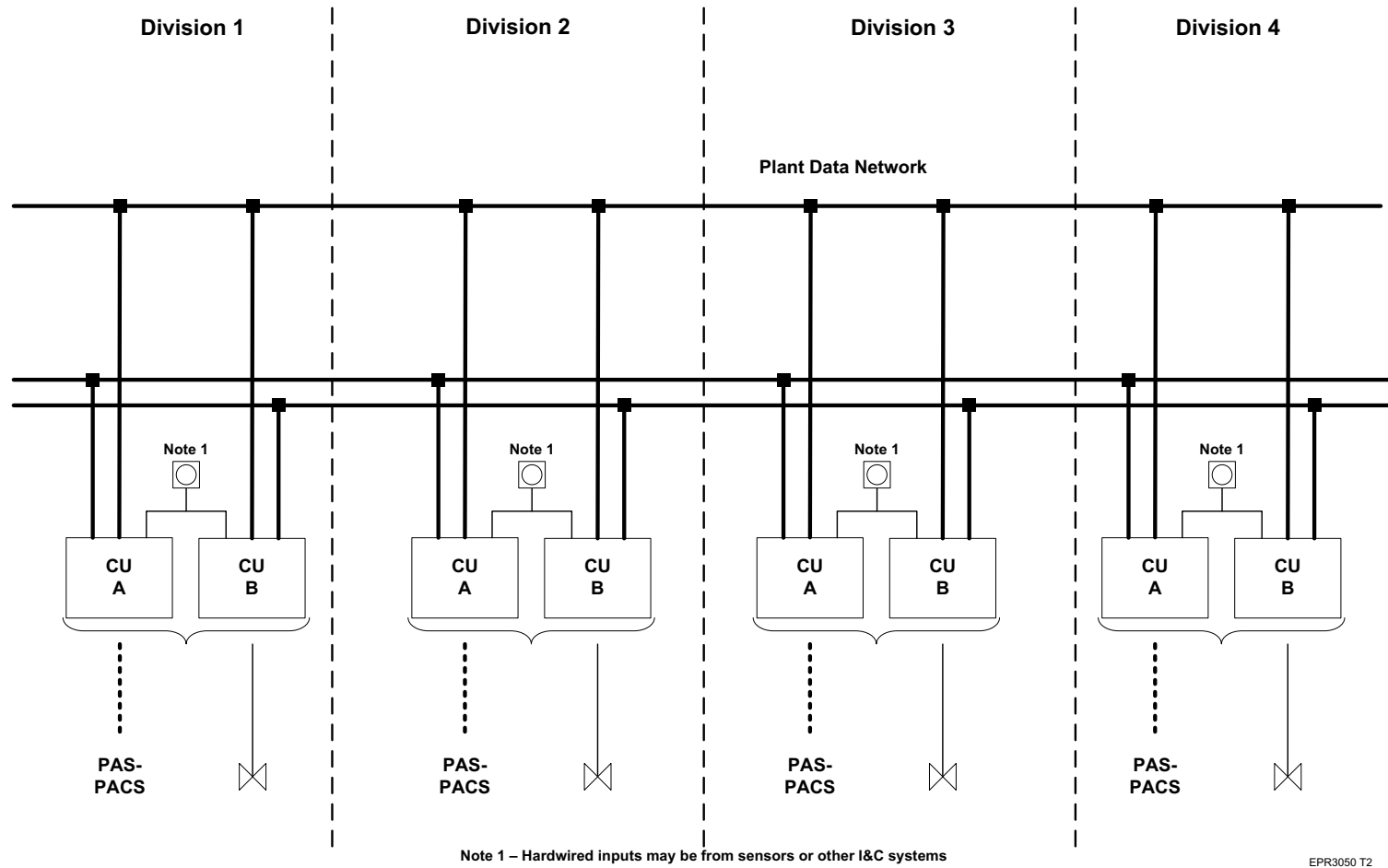
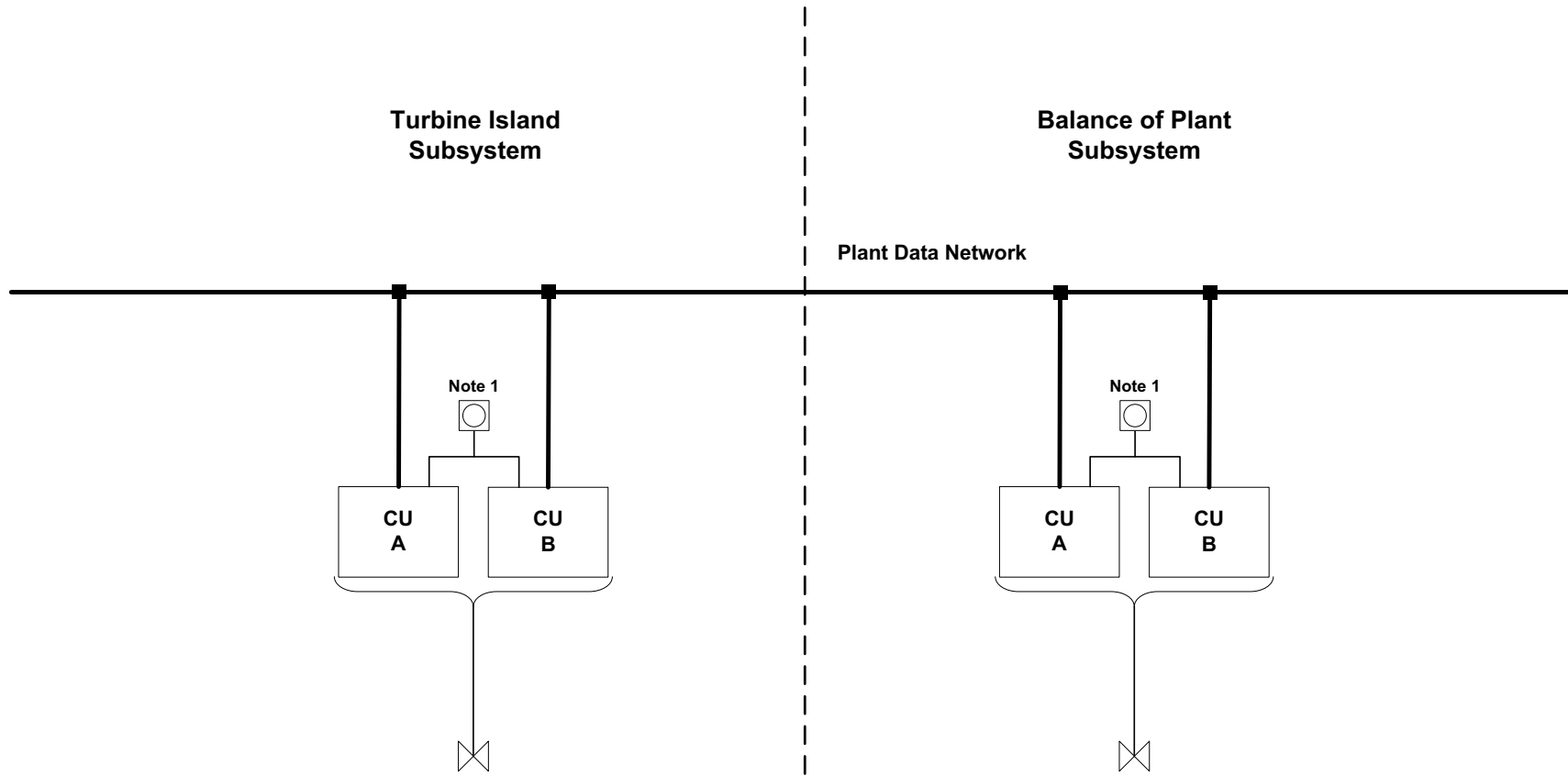


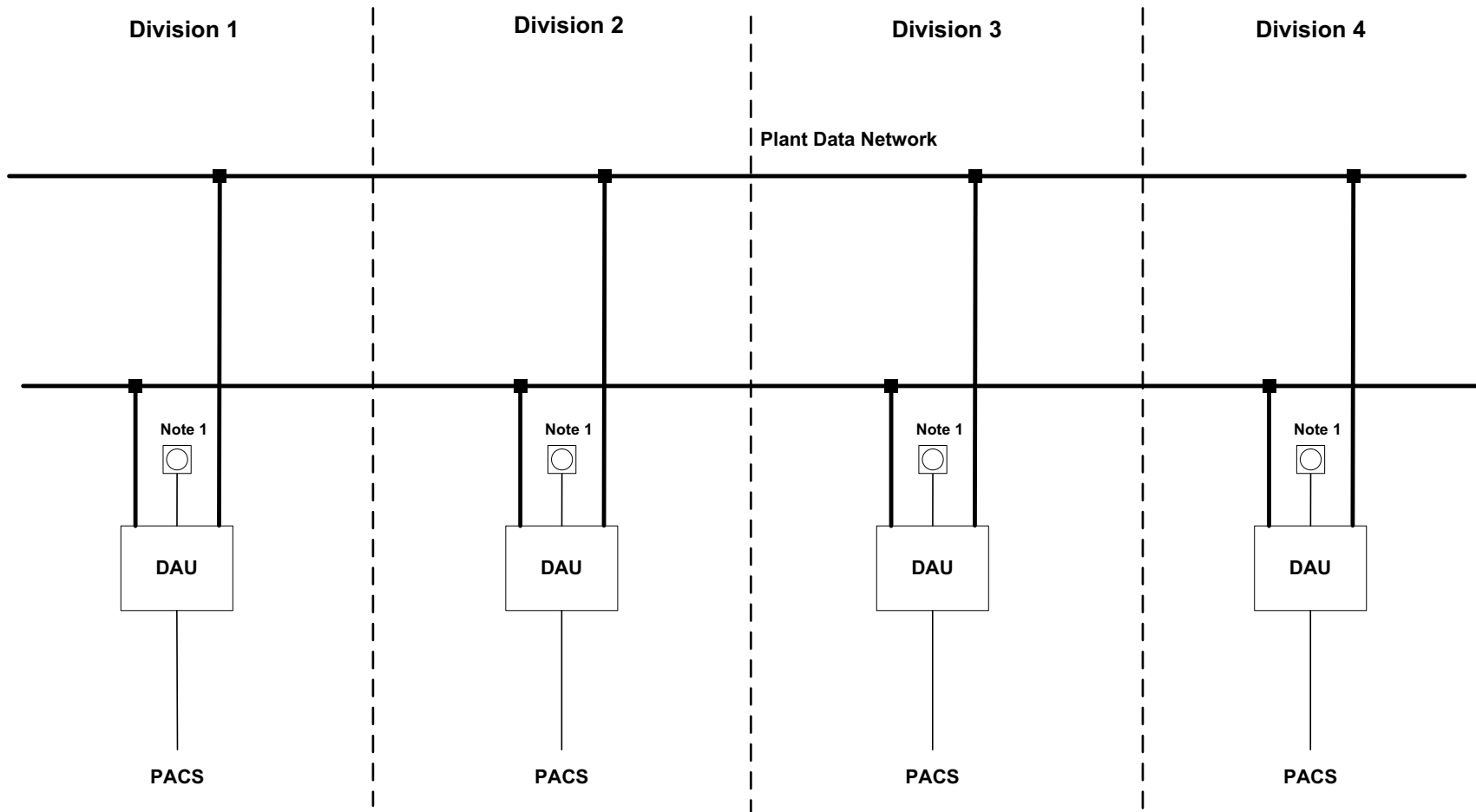
Figure 7.1-12—Process Automation System Architecture (Turbine Island and Balance of Plant Subsystem)



Note 1 – Hardwired inputs may be from sensors or other I&C systems

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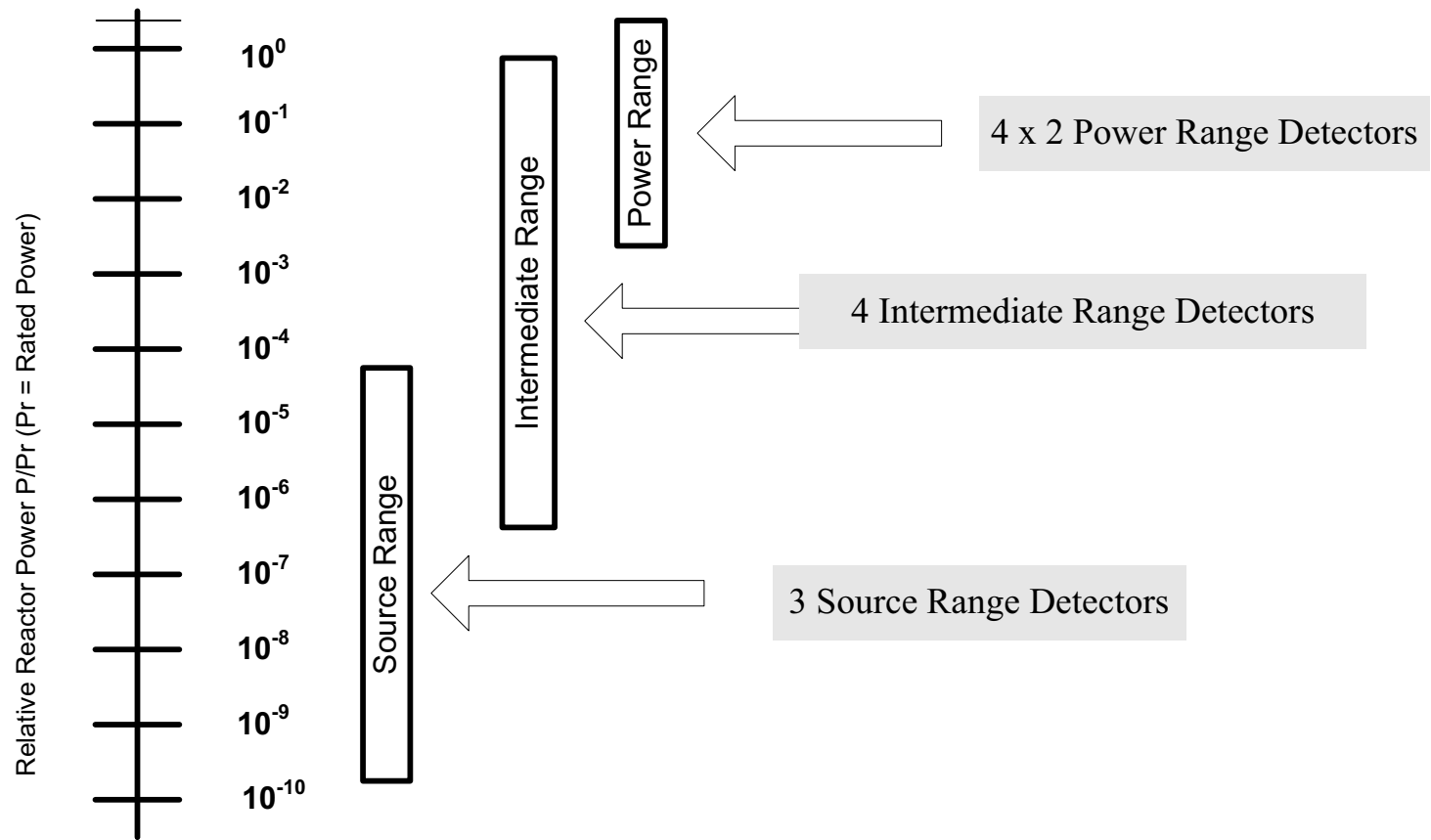
Figure 7.1-13—Process Automation System Architecture (Diverse Actuation Subsystem)



Note 1 – Hardwired inputs may be from sensors or other I&C systems

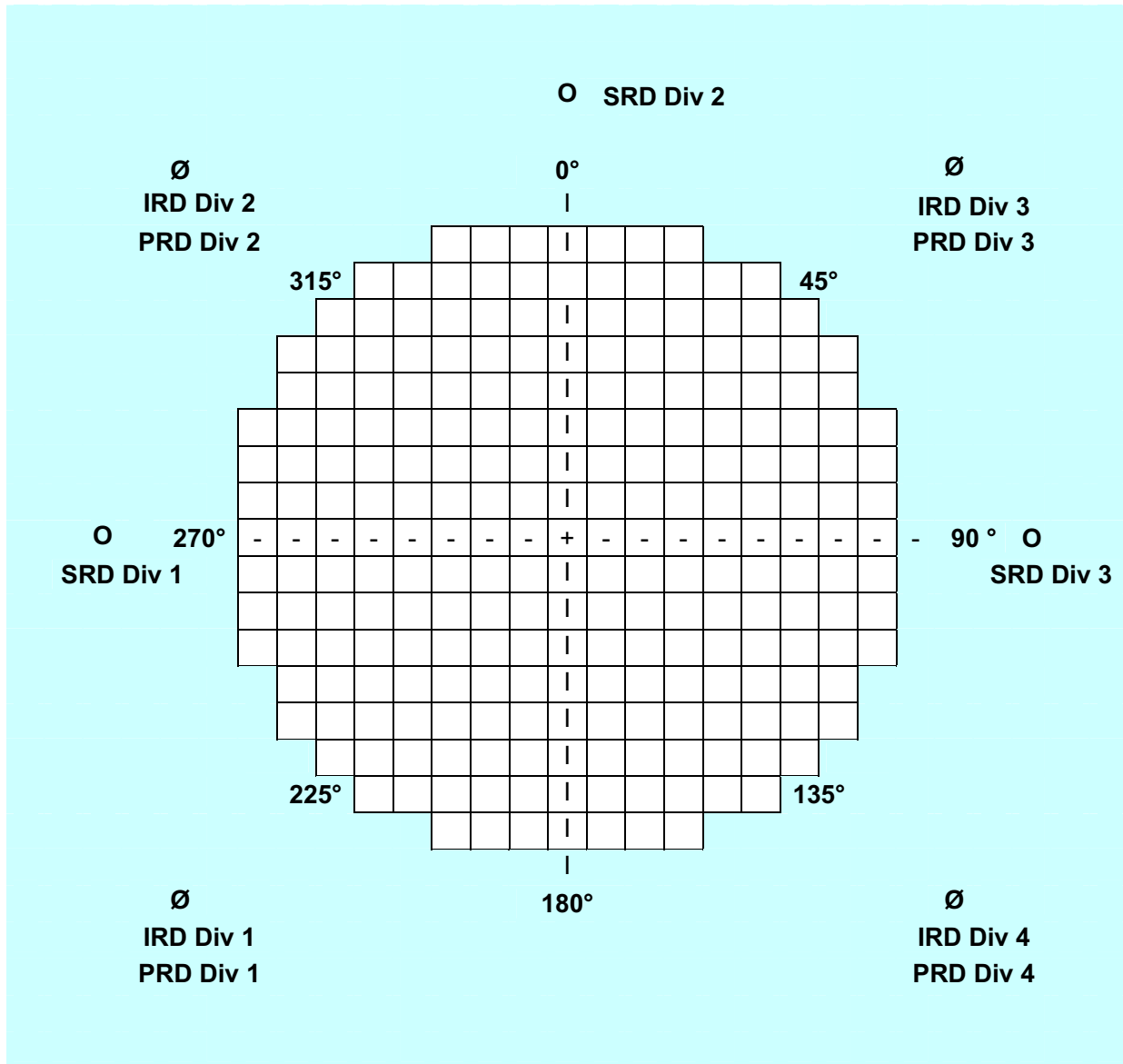
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Figure 7.1-14—Measuring Ranges of Excore Instrumentation



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Figure 7.1-15—Excore Instrument Detector Locations

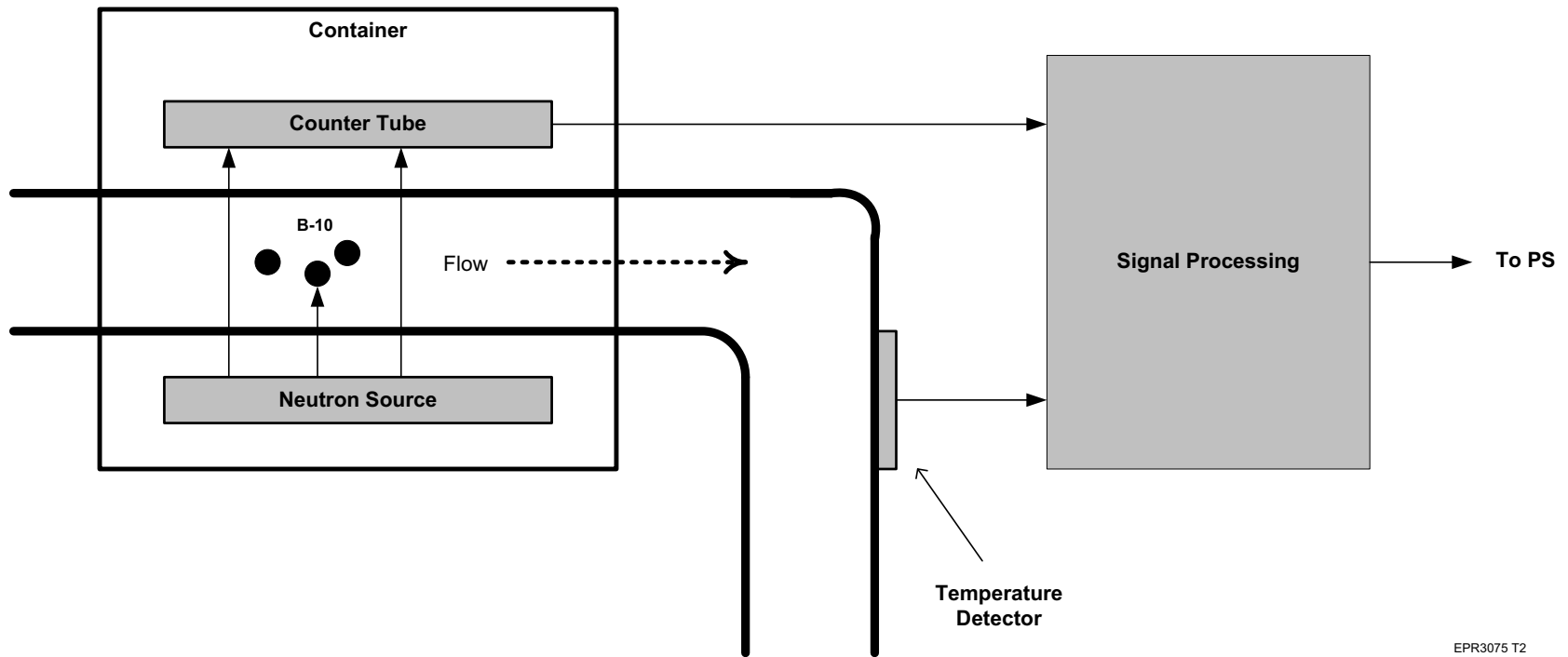


Notes:

- | | | | |
|----------|---|-----------------------------|----------------------------|
| 1. PRD : | Ø | Power Range Detector | 4 locations of 2 detectors |
| 2. IRD : | ∅ | Intermediate Range Detector | 4 locations of 1 detector |
| 3. SRD : | O | Source Range Detector | 3 locations of 1 detector |

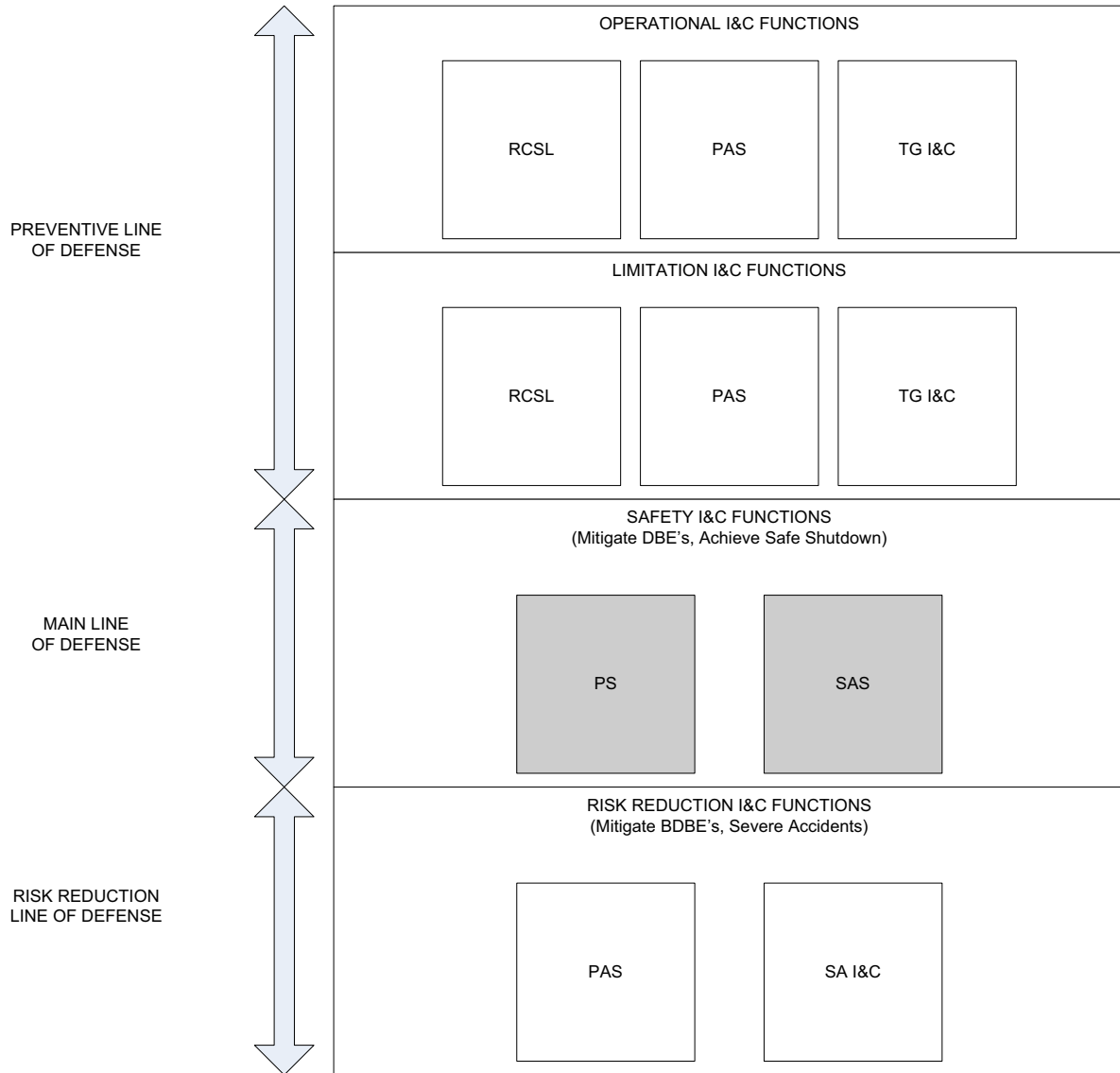
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Figure 7.1-16—Boron Concentration Measurement System Arrangement



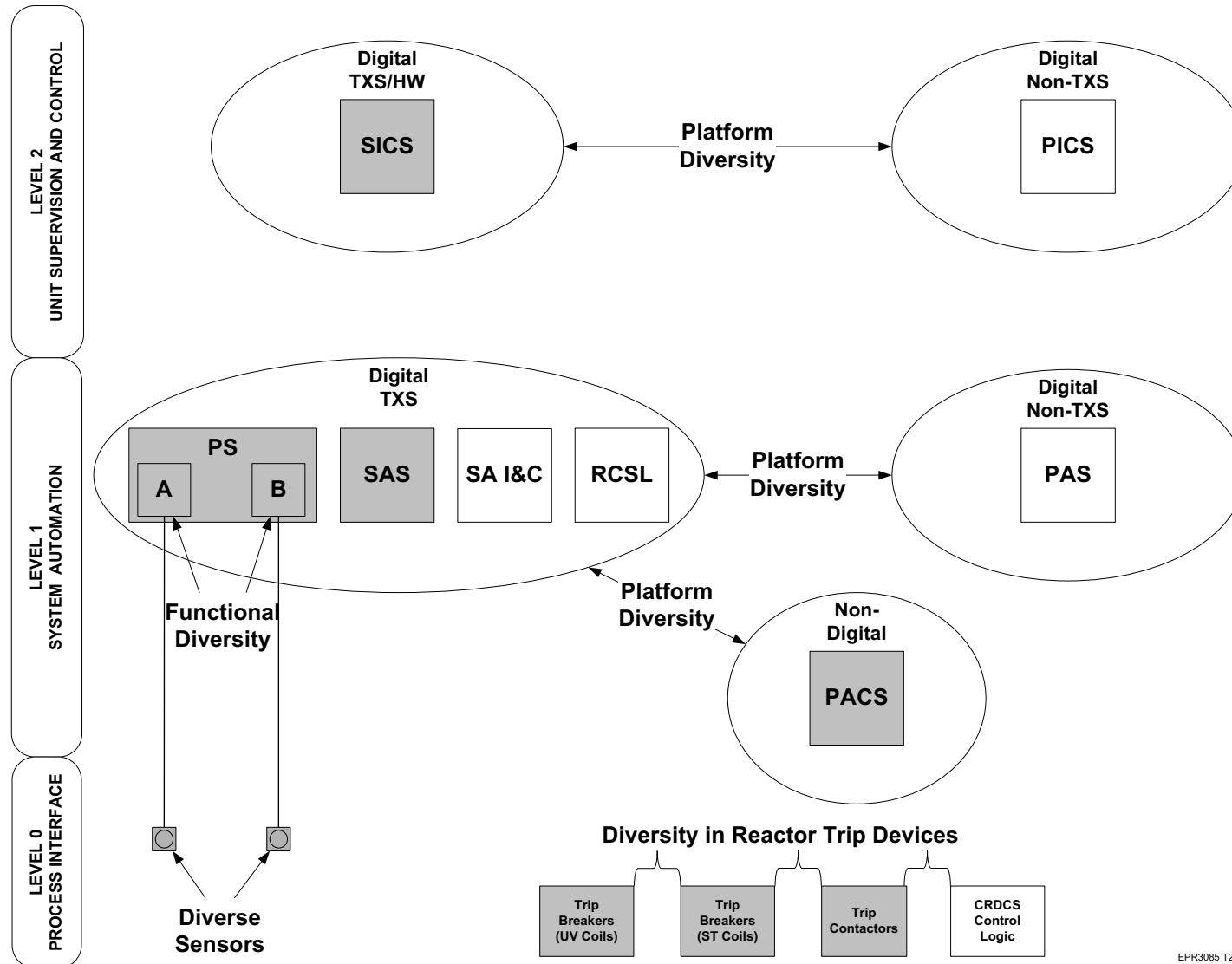
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Figure 7.1-17—Implementation of Defense-In-Depth



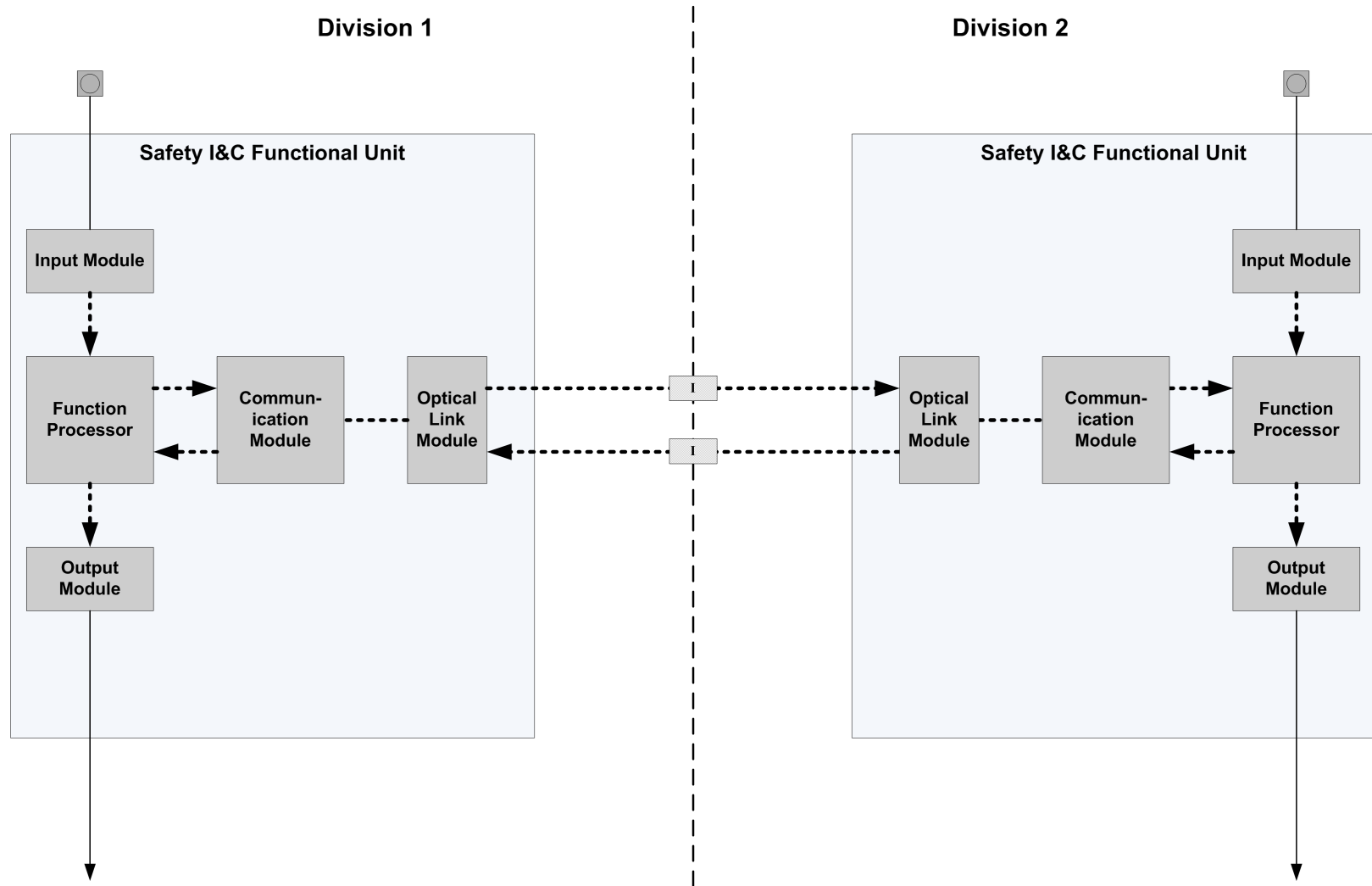
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Figure 7.1-18—Implementation of Diversity



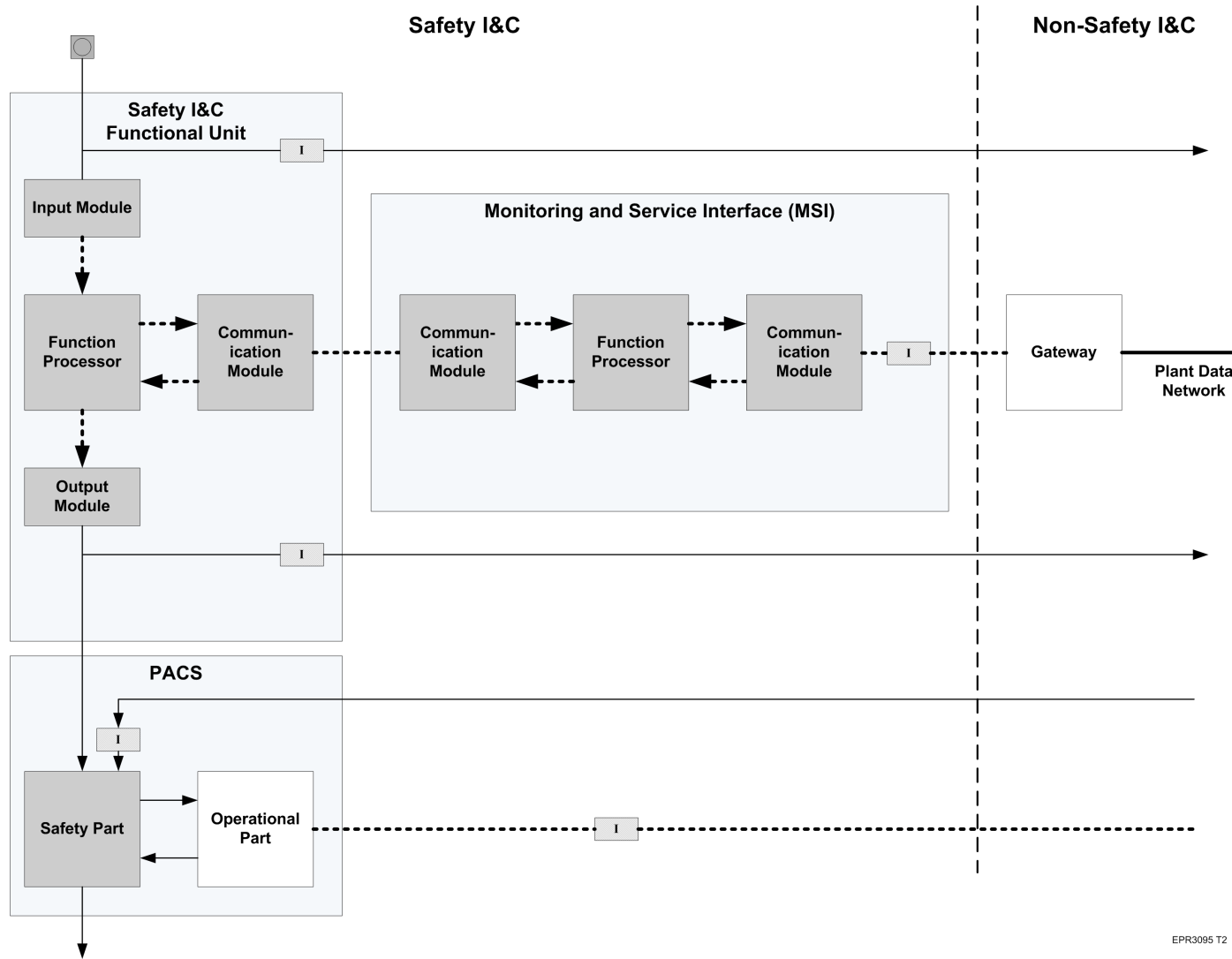
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Figure 7.1-19—Implementation of Independence Between Redundant Divisions



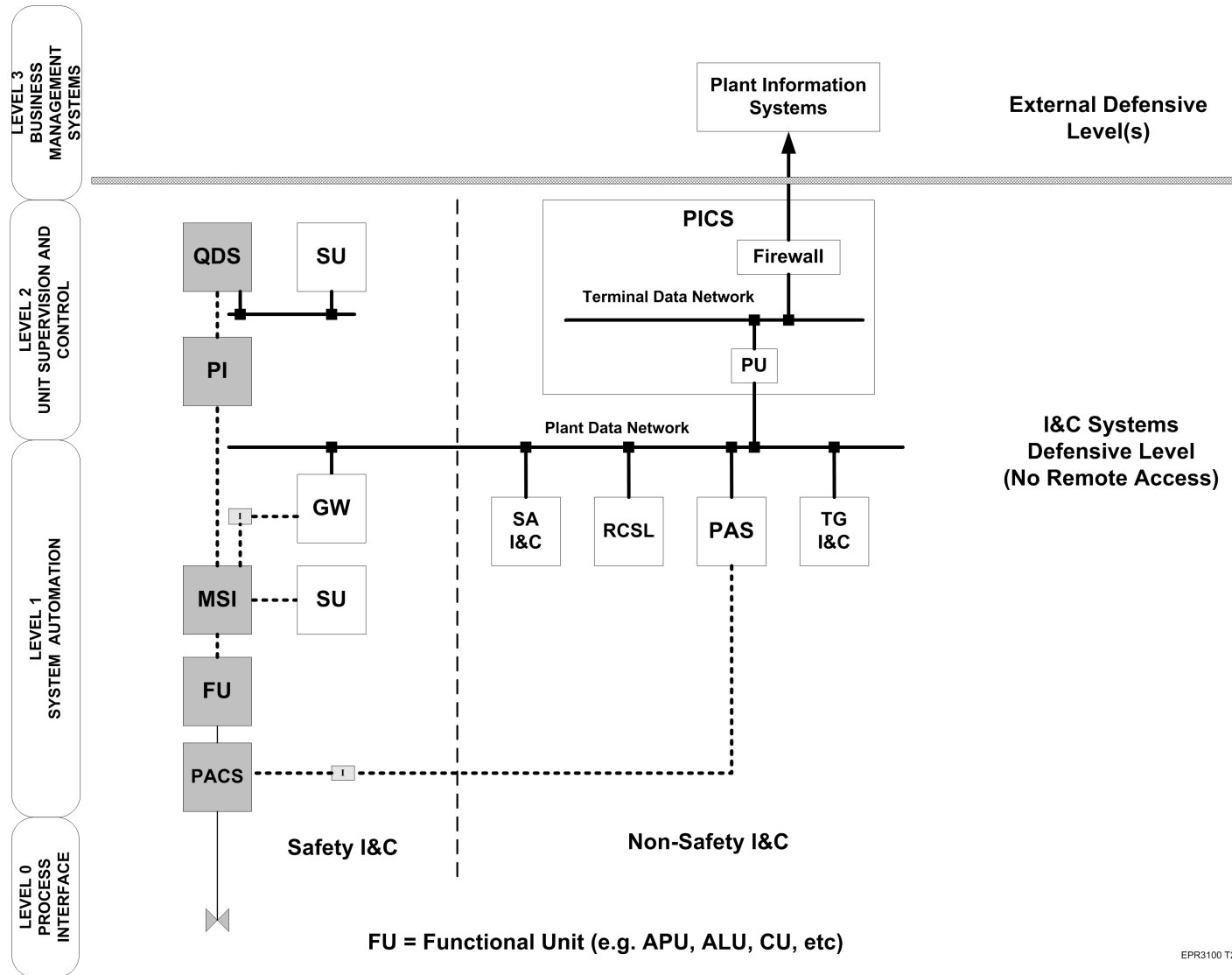
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Figure 7.1-20—Implementation of Independence Between Safety and Non-Safety I&C



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Figure 7.1-21—Levels of Defense for Cybersecurity



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