Figure 7.2-4—Safety Related RT Devices
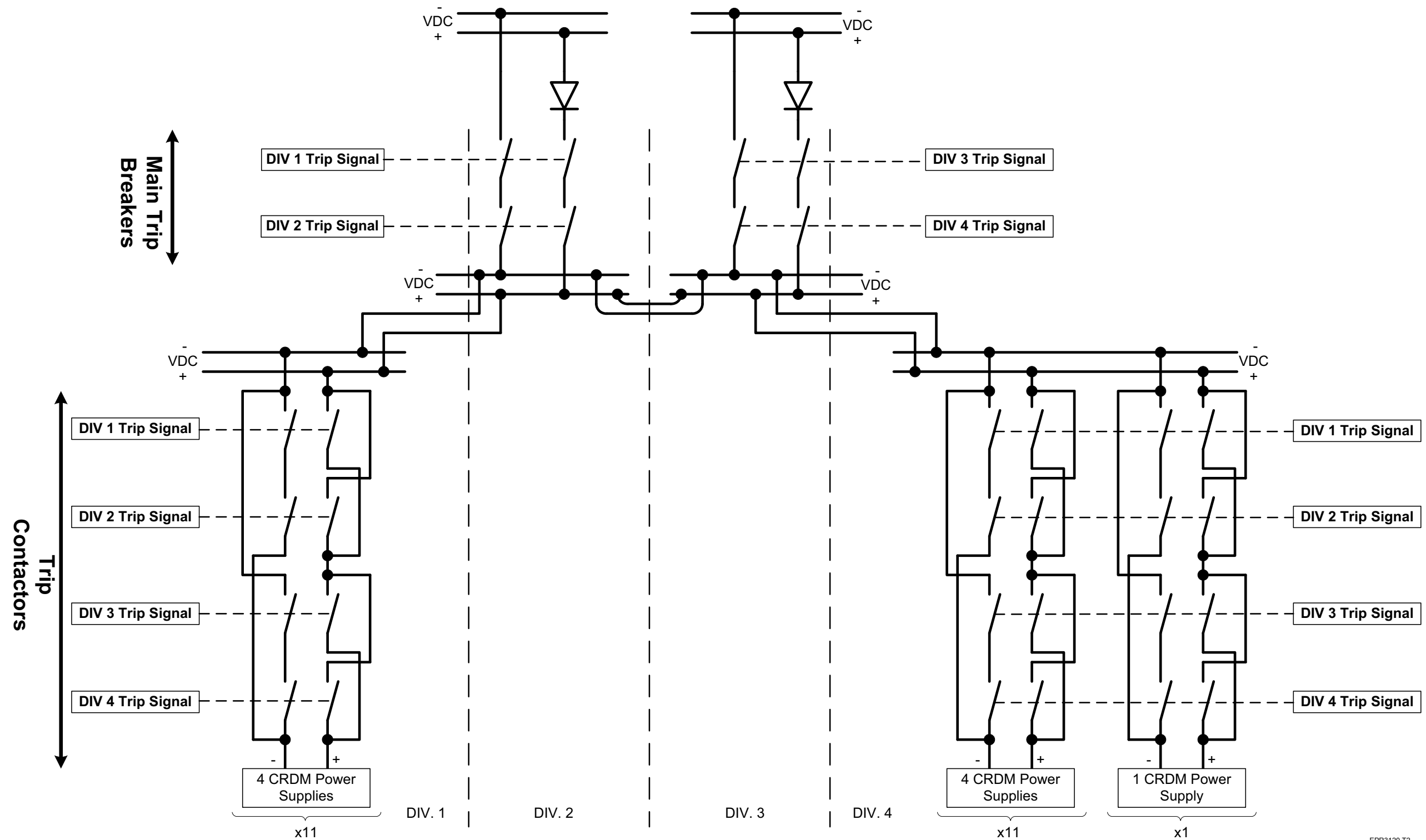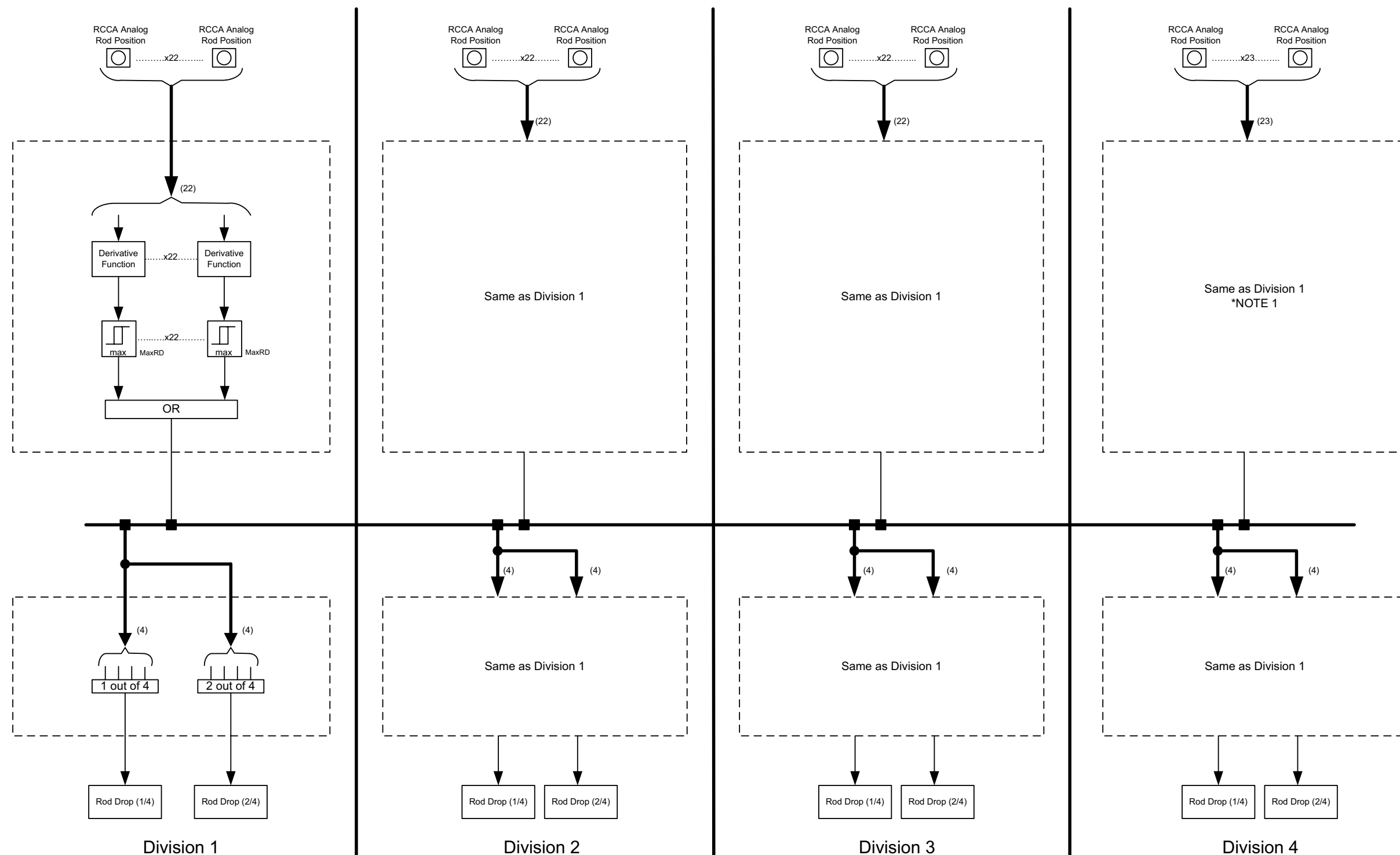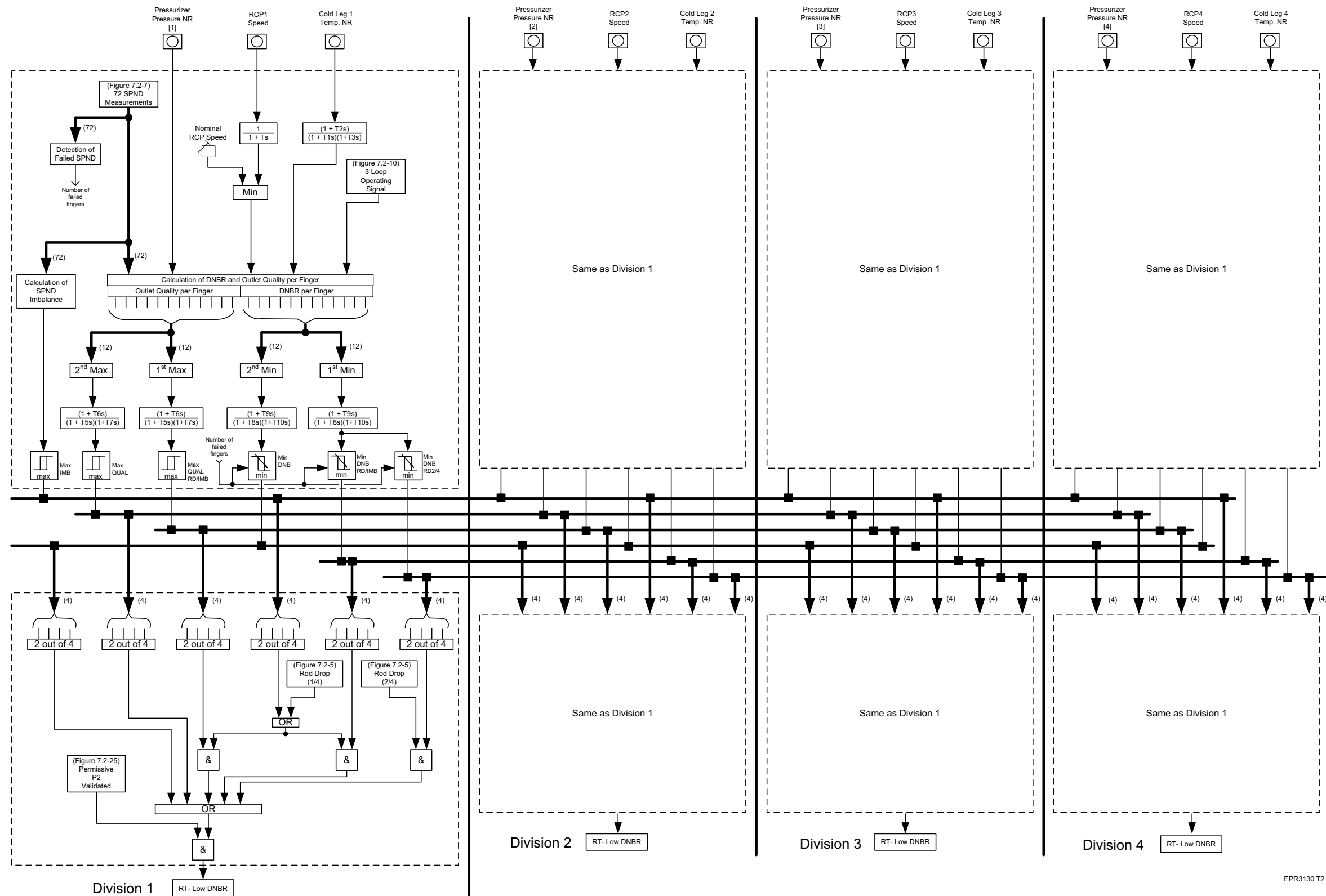
Figure 7.2-5—Rod Drop Detection

NOTE 1: 23 measurements are acquired in Division 4, including the center RCCA.

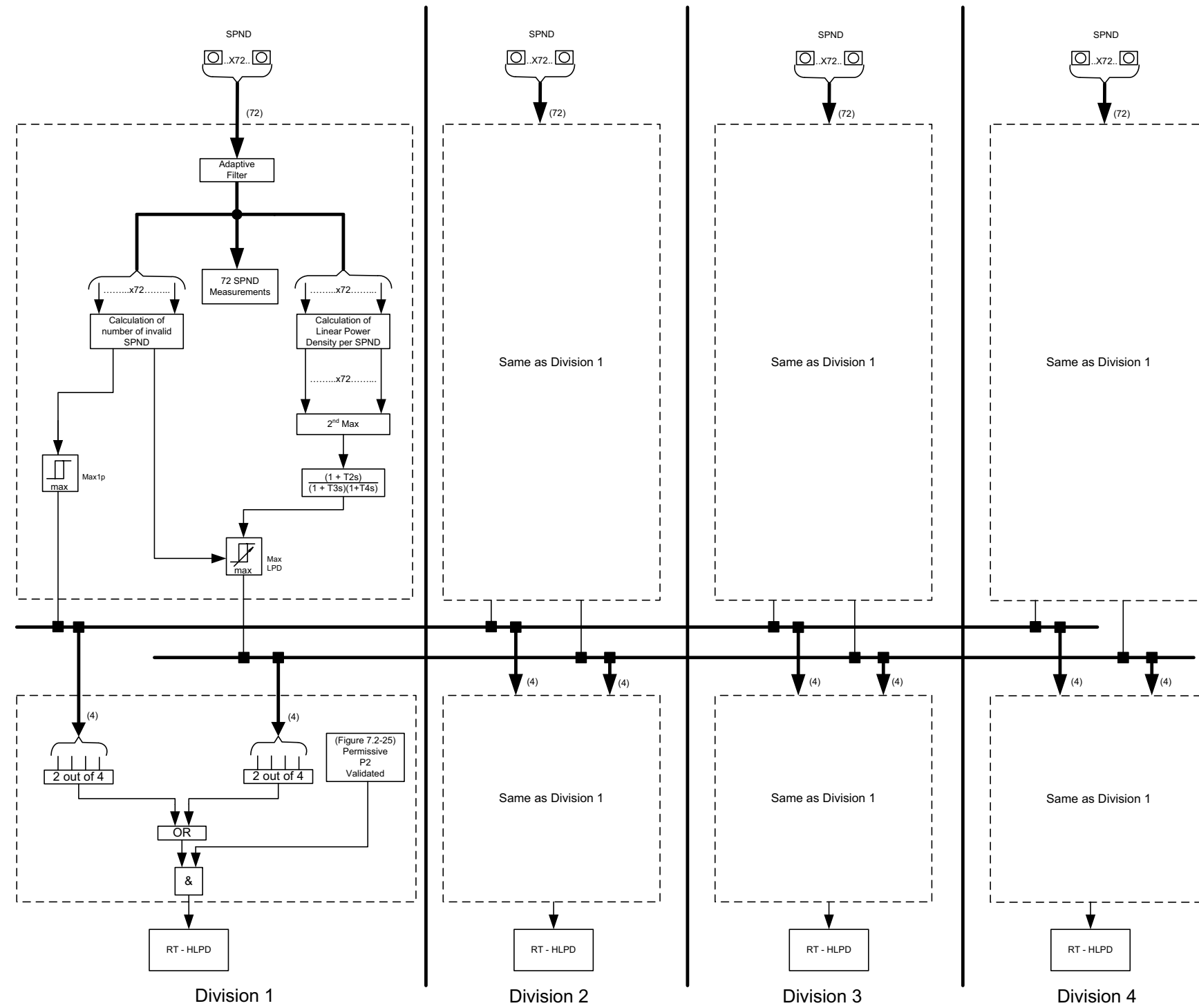REV 003
EPR3125 T2

Figure 7.2-6—Low DNBR

Figure 7.2-7—High Linear Power Density

Figure 7.2-8—High Neutron Flux Rate of Change

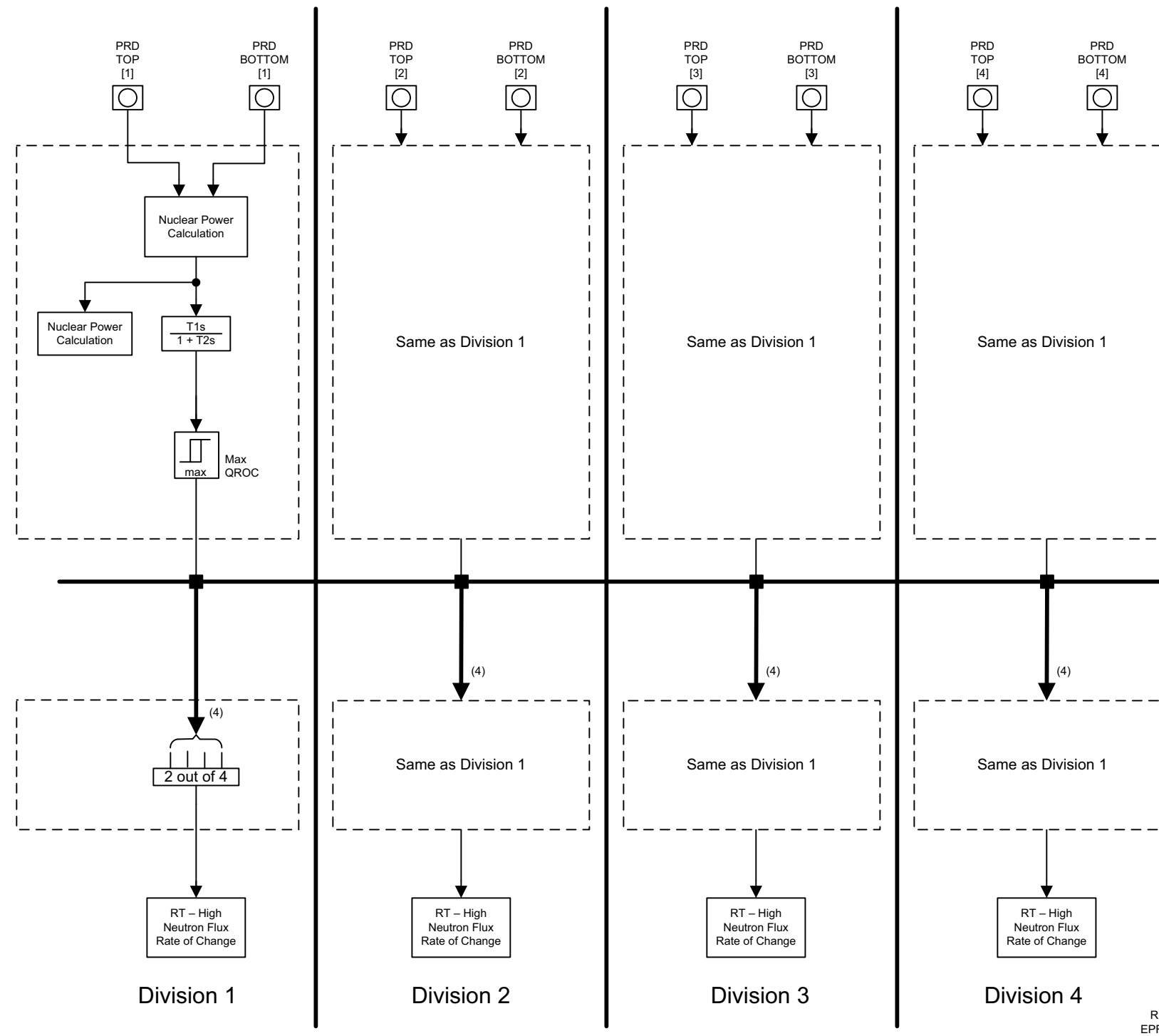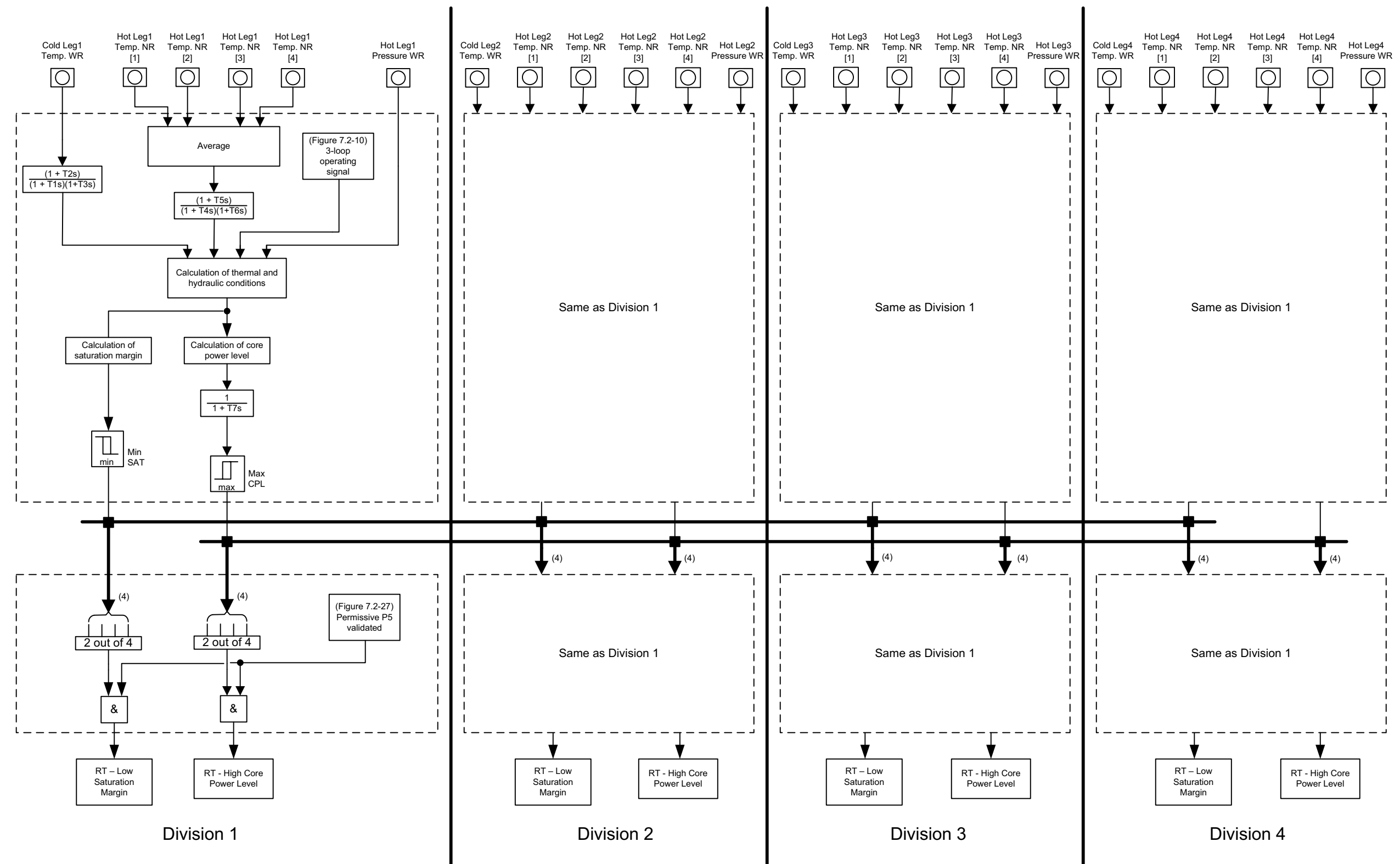**Figure 7.2-9—High Core Power Level & Low Saturation Margin**
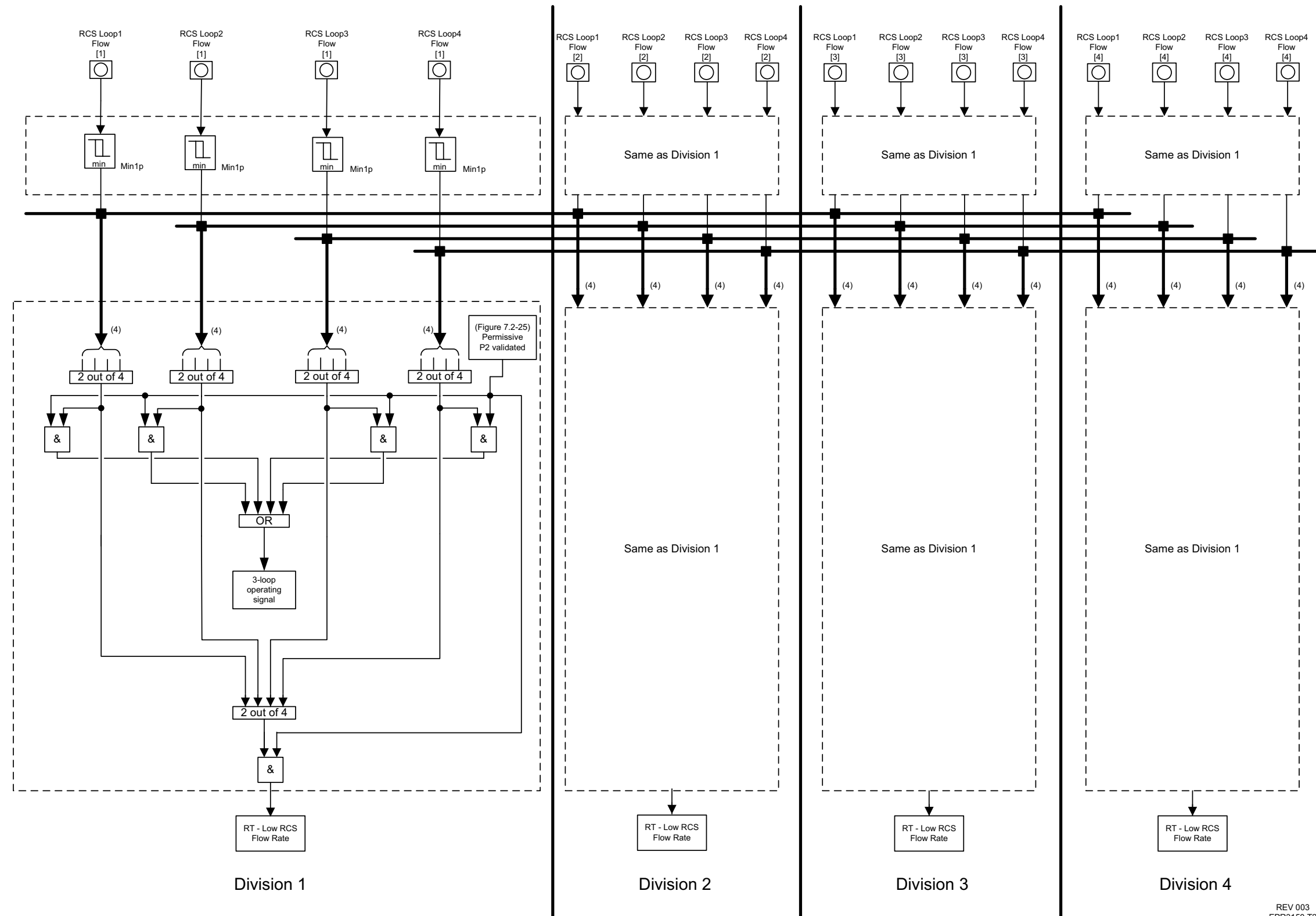
Figure 7.2-10—Low RCS Flow Rate

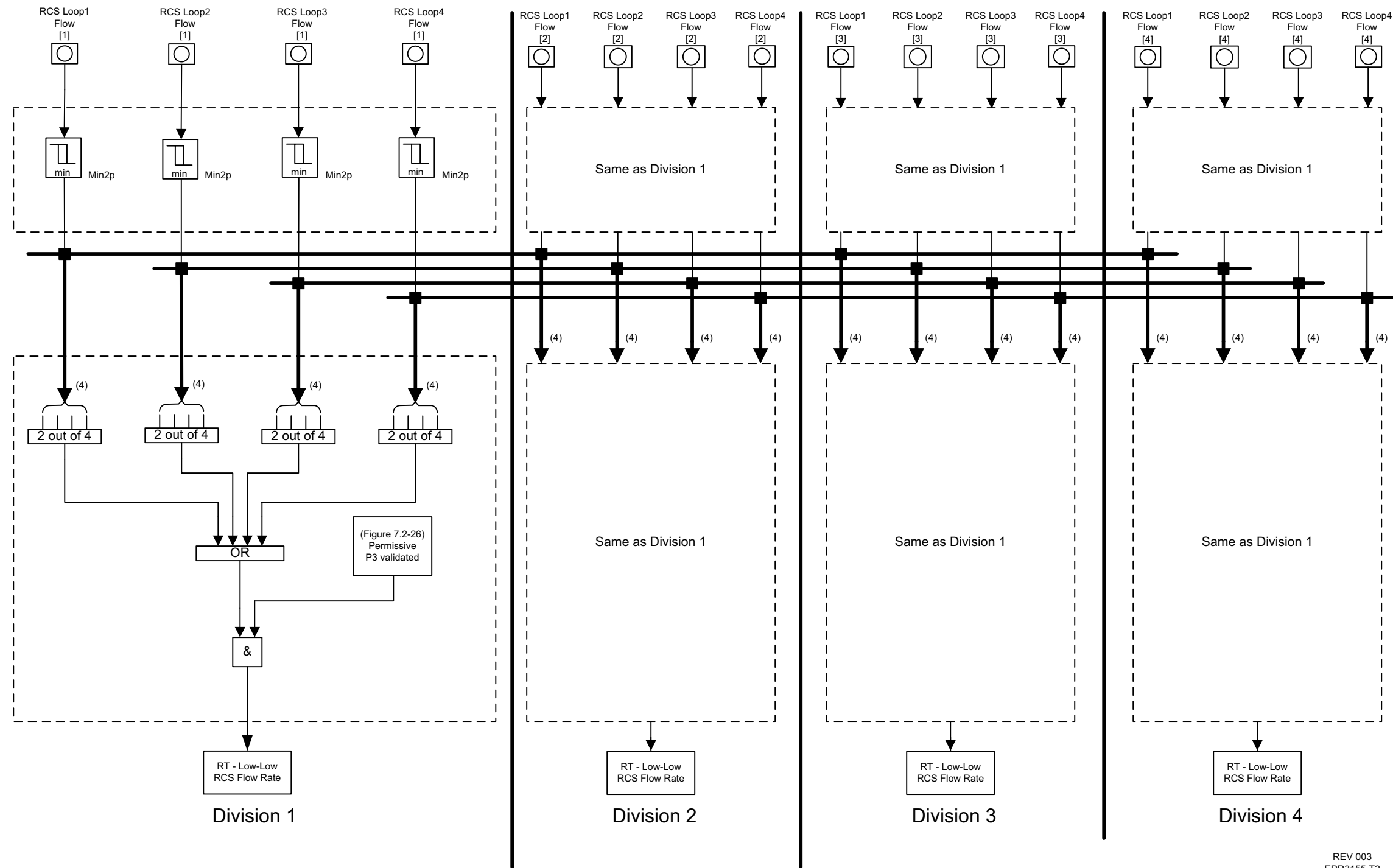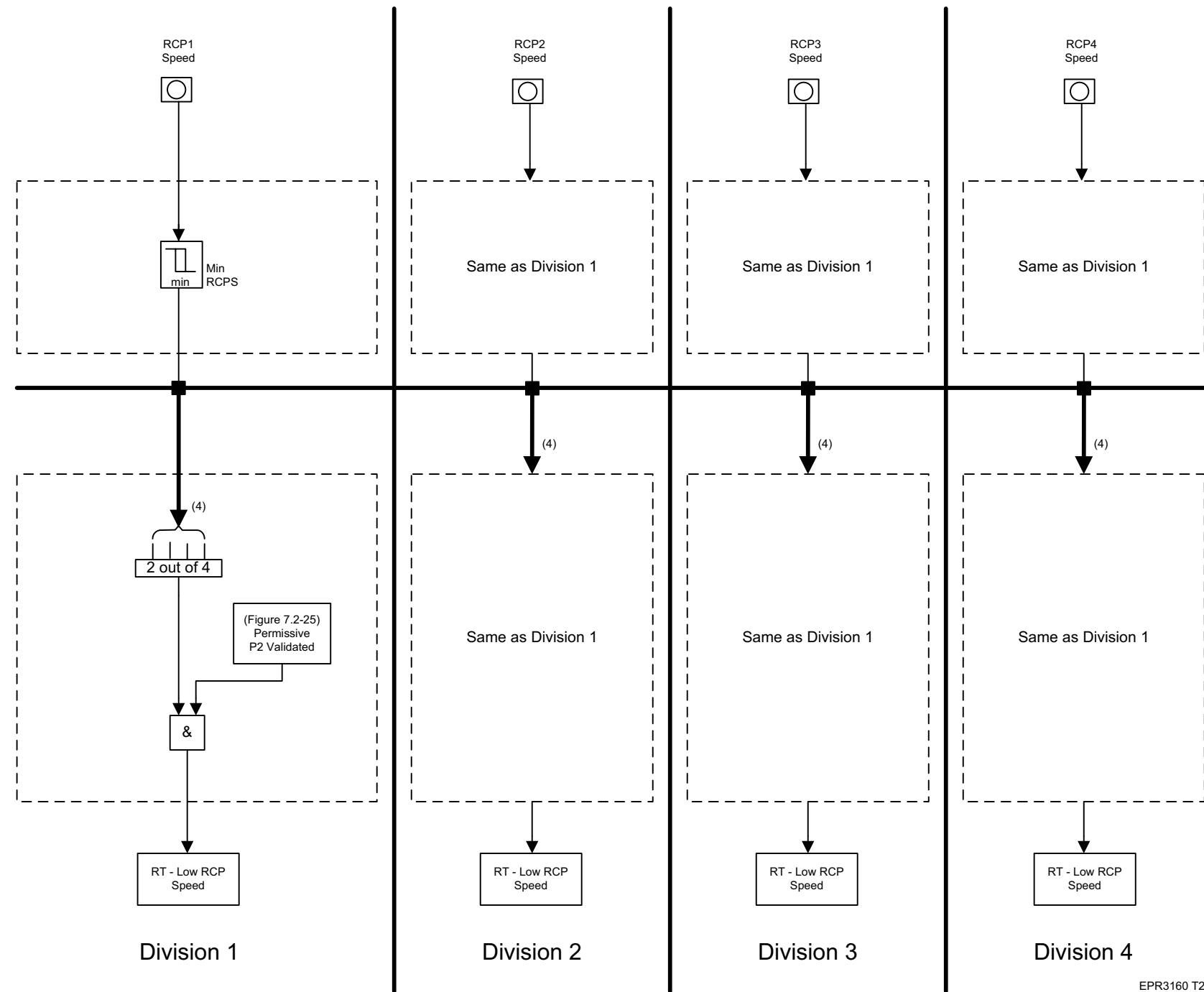**Figure 7.2-11—Low - Low RCS Flow Rate**

Figure 7.2-12—Low RCP Speed

Figure 7.2-13—High Neutron Flux
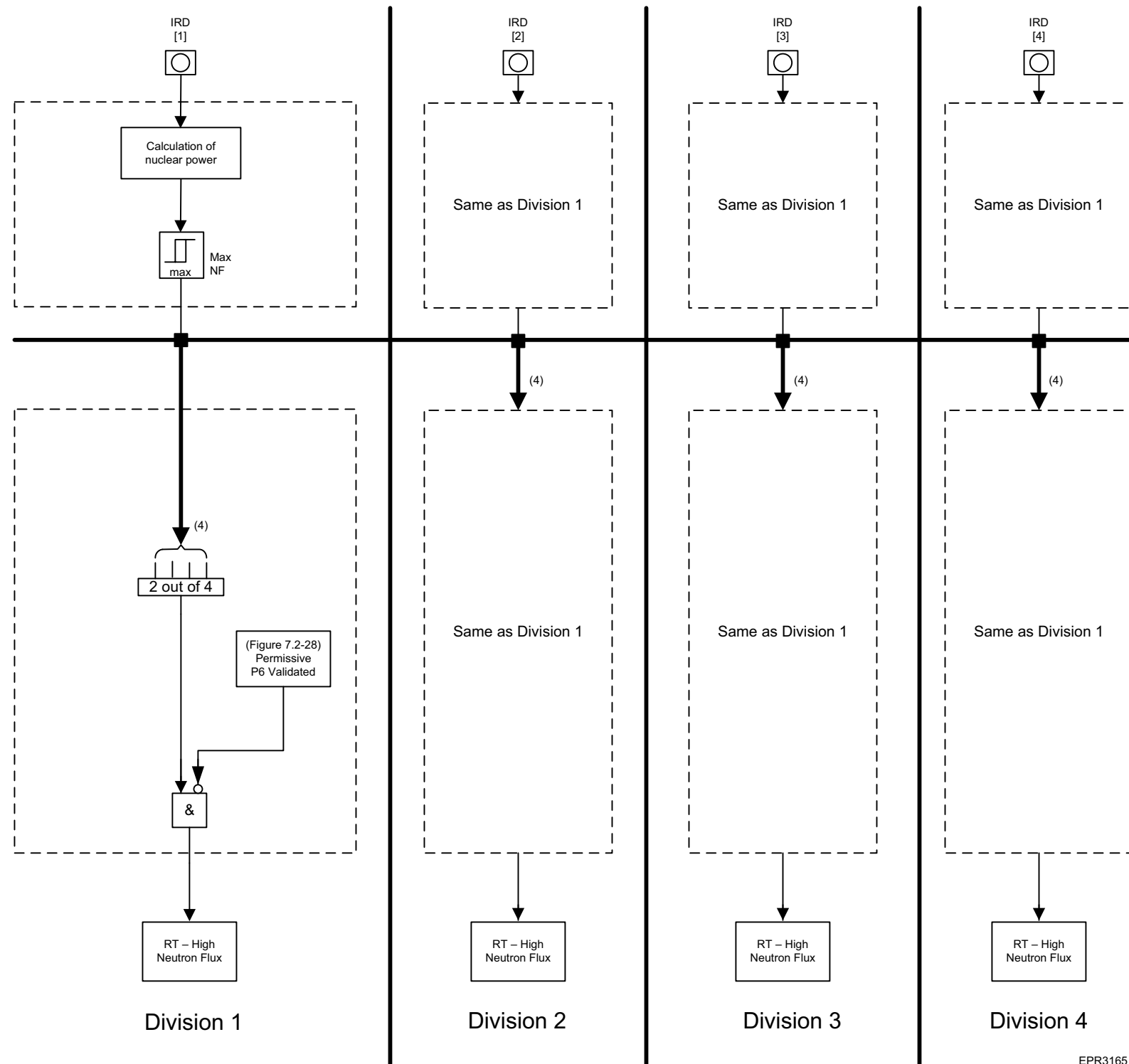
Figure 7.2-14—Low Doubling Time

Division 1   Division 2   Division 3   Division 4

EPR3170 T2
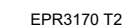
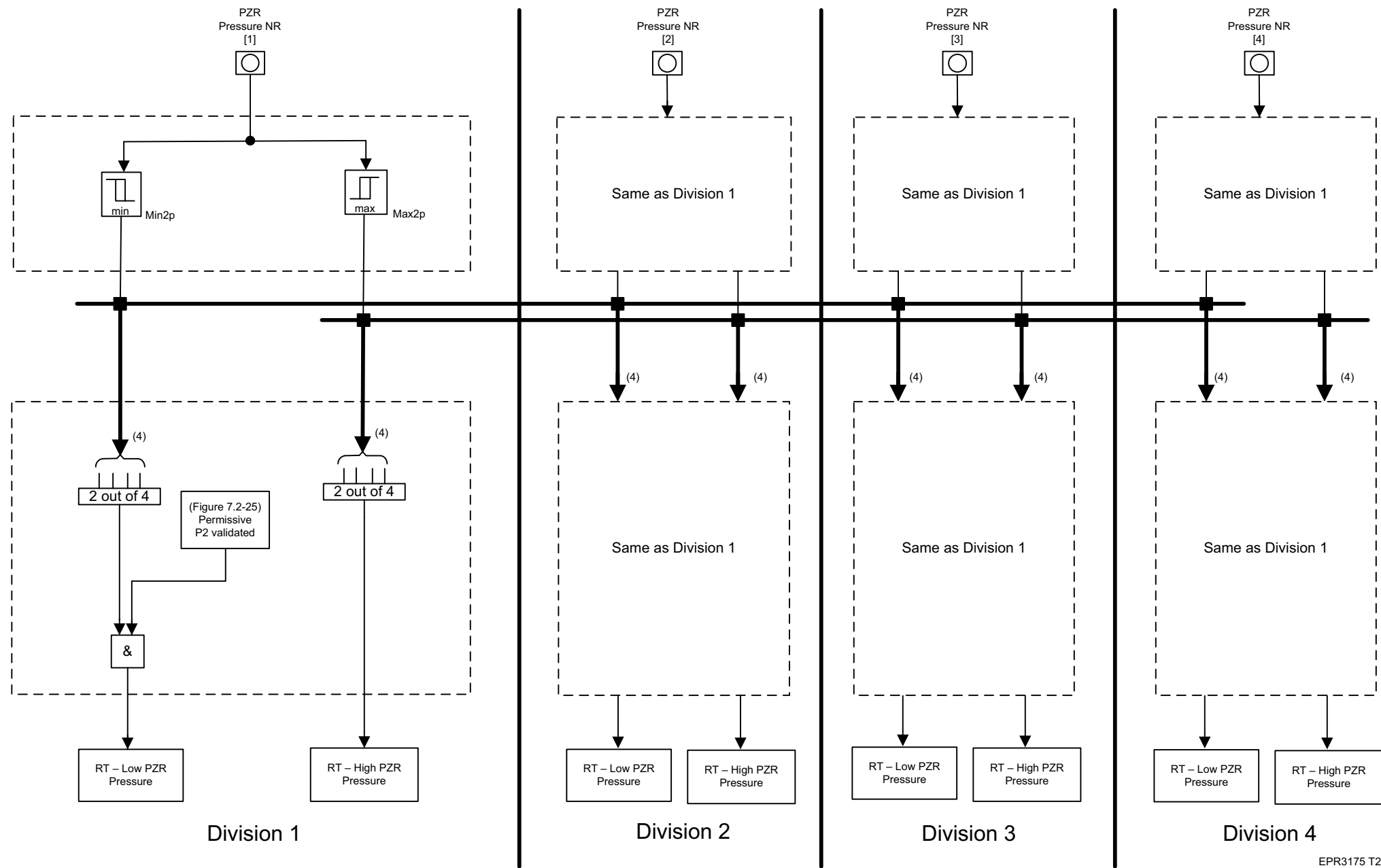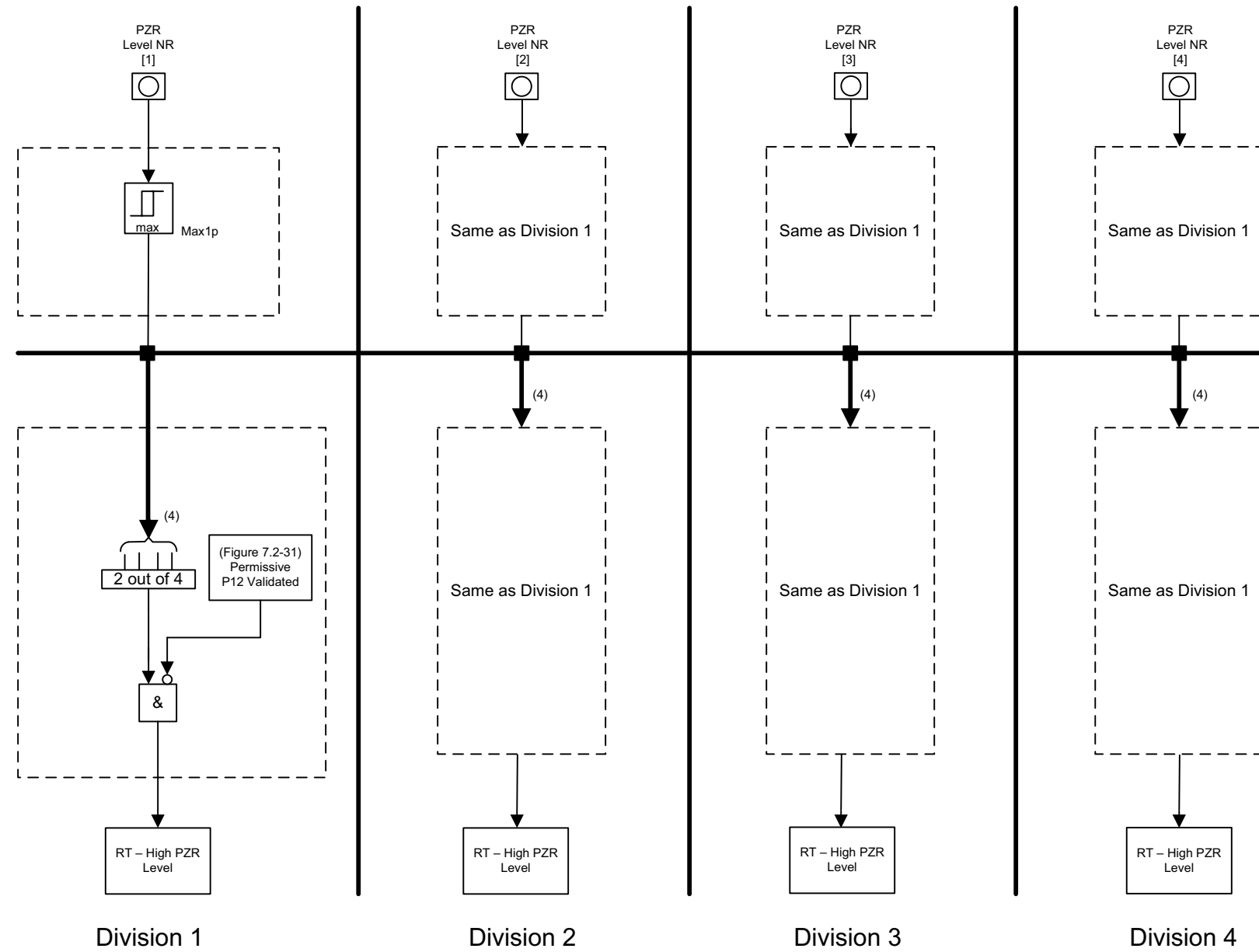**Figure 7.2-15—Low Pressurizer Pressure & High Pressurizer Pressure**

Figure 7.2-16—High Pressurizer Level

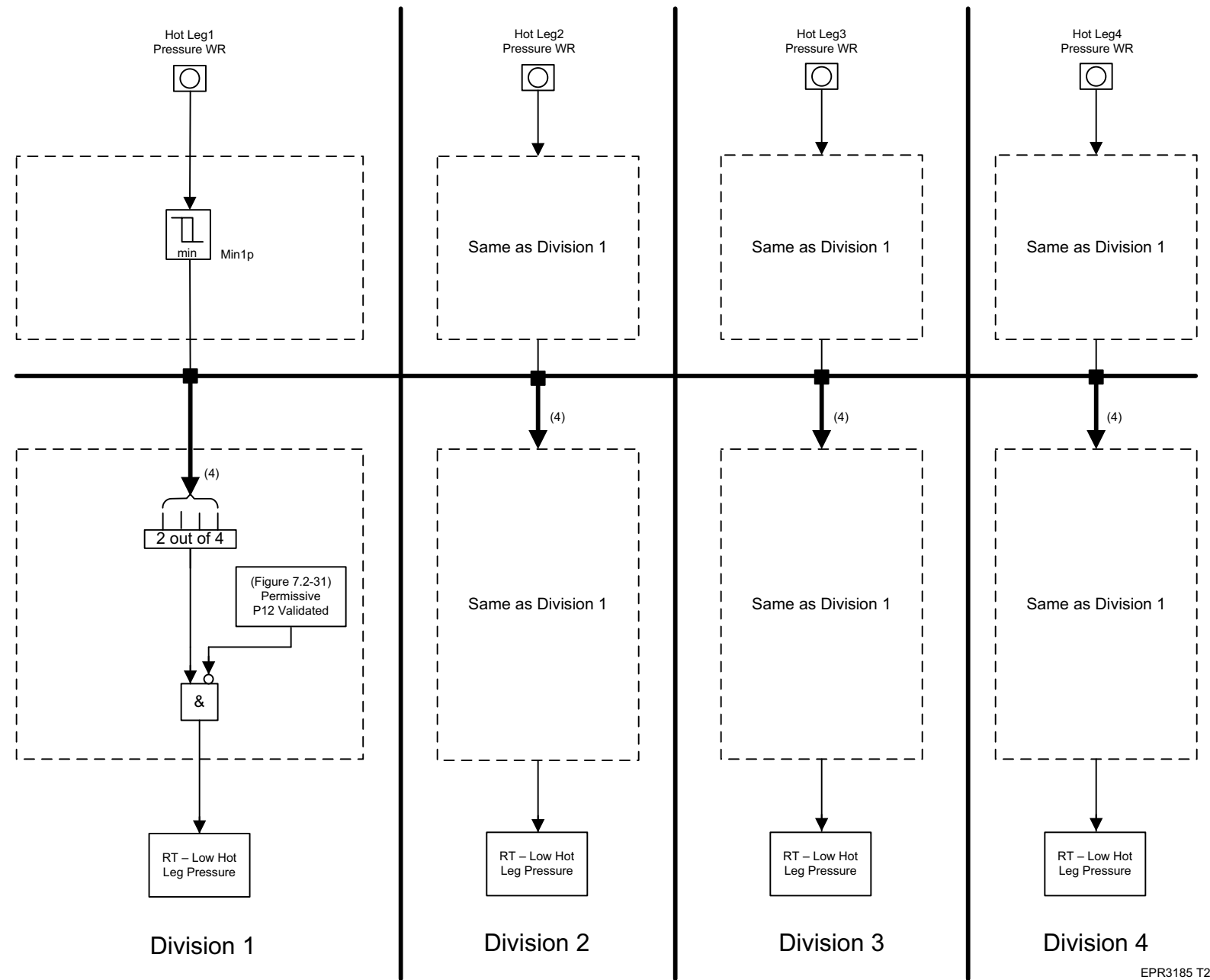EPR3180 T2

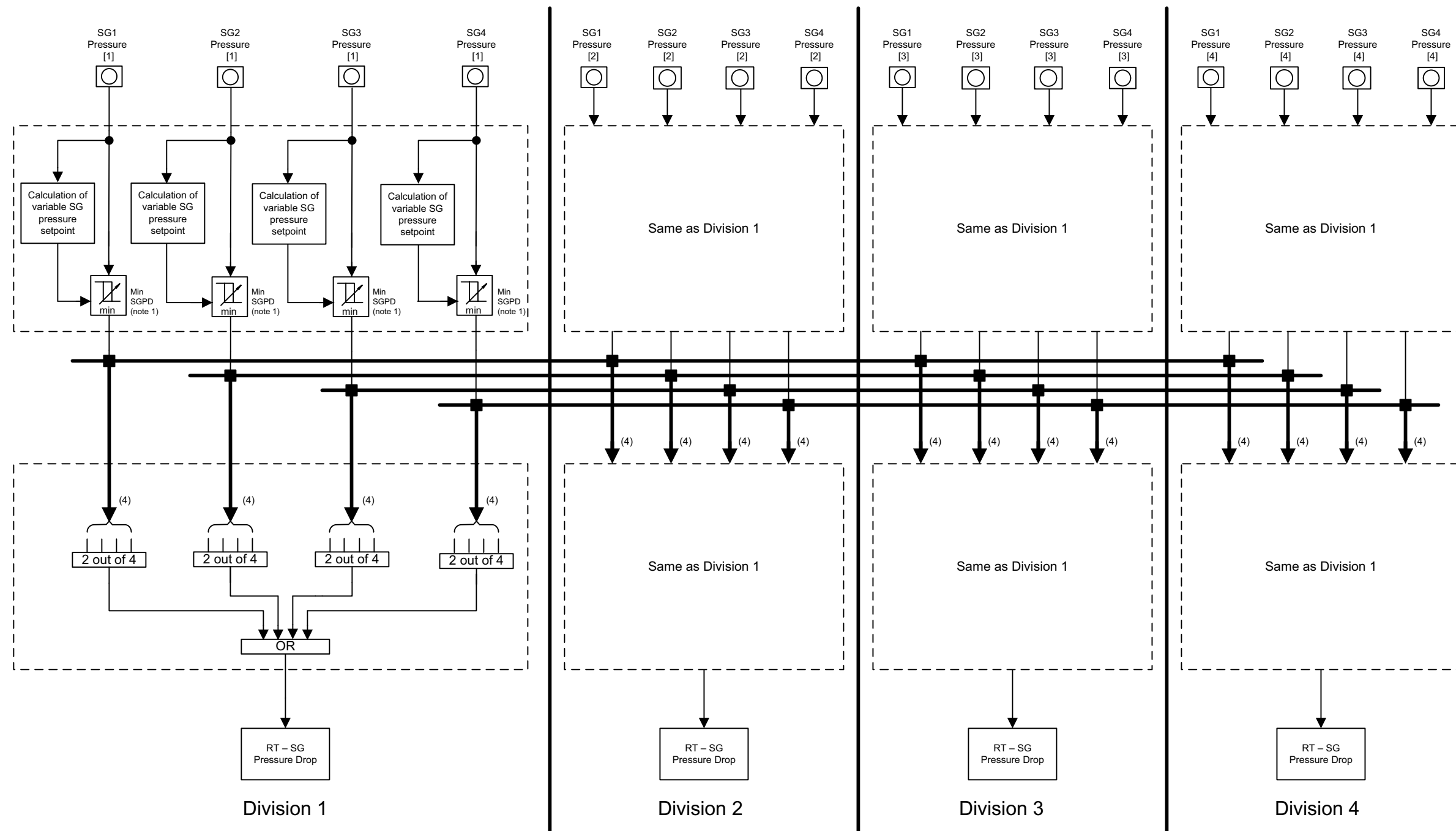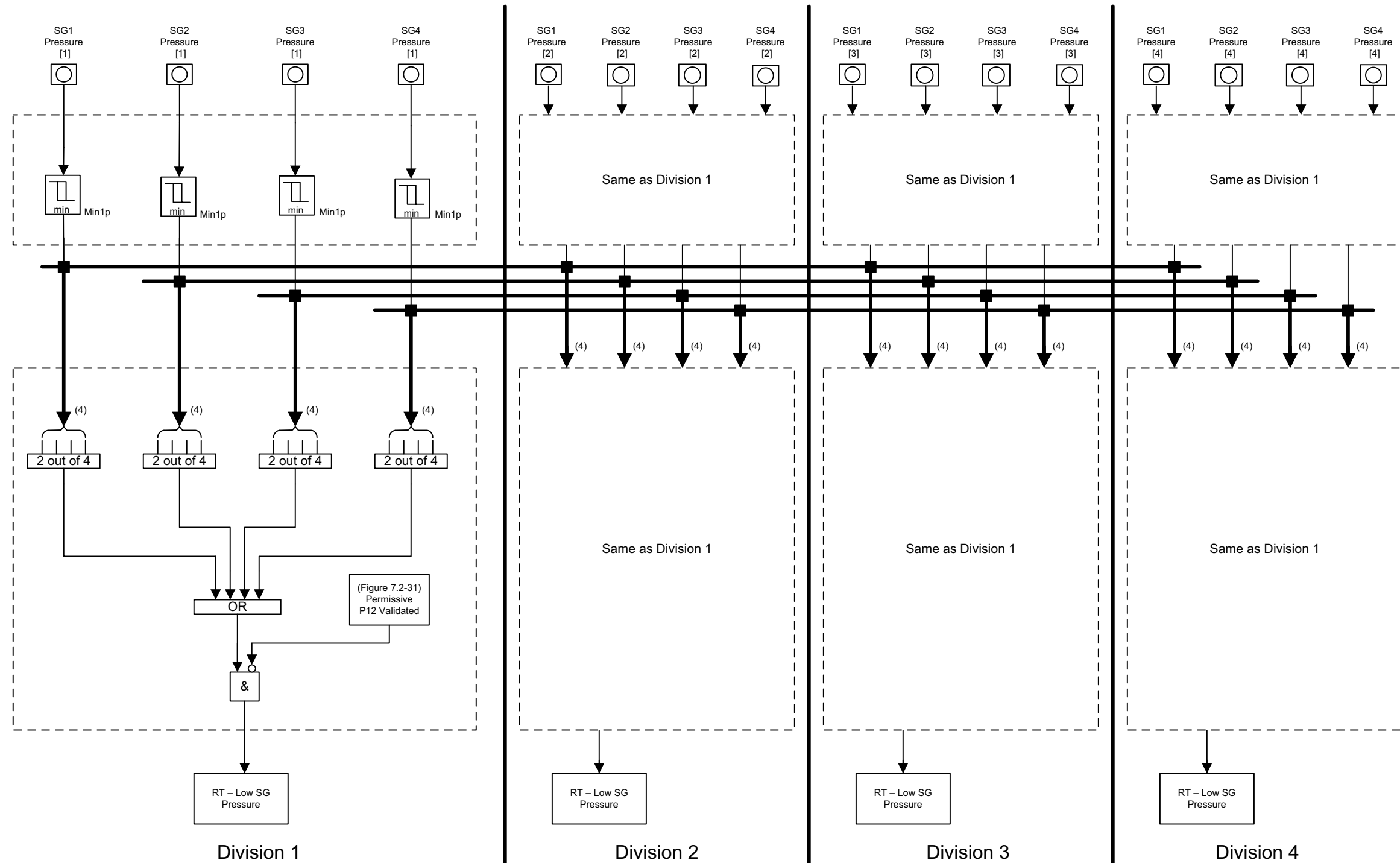**Figure 7.2-17—Low Hot Leg Pressure**

Figure 7.2-18—SG Pressure Drop

Note 1: The condition to be detected is a SG pressure drop > Max1p. This is implemented with a variable "Min" setpoint that decreases in a rate-limited manner.
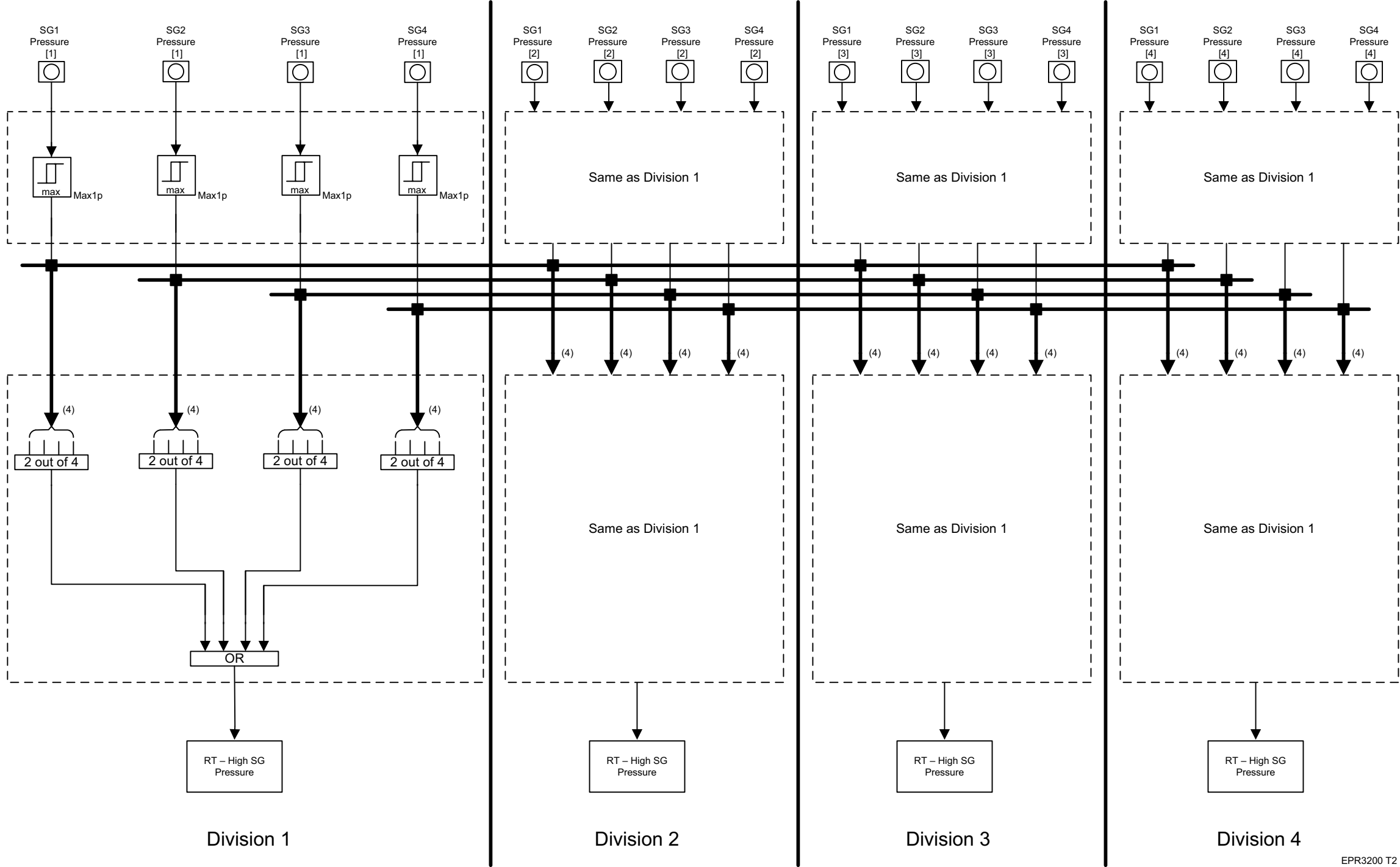
REV 003
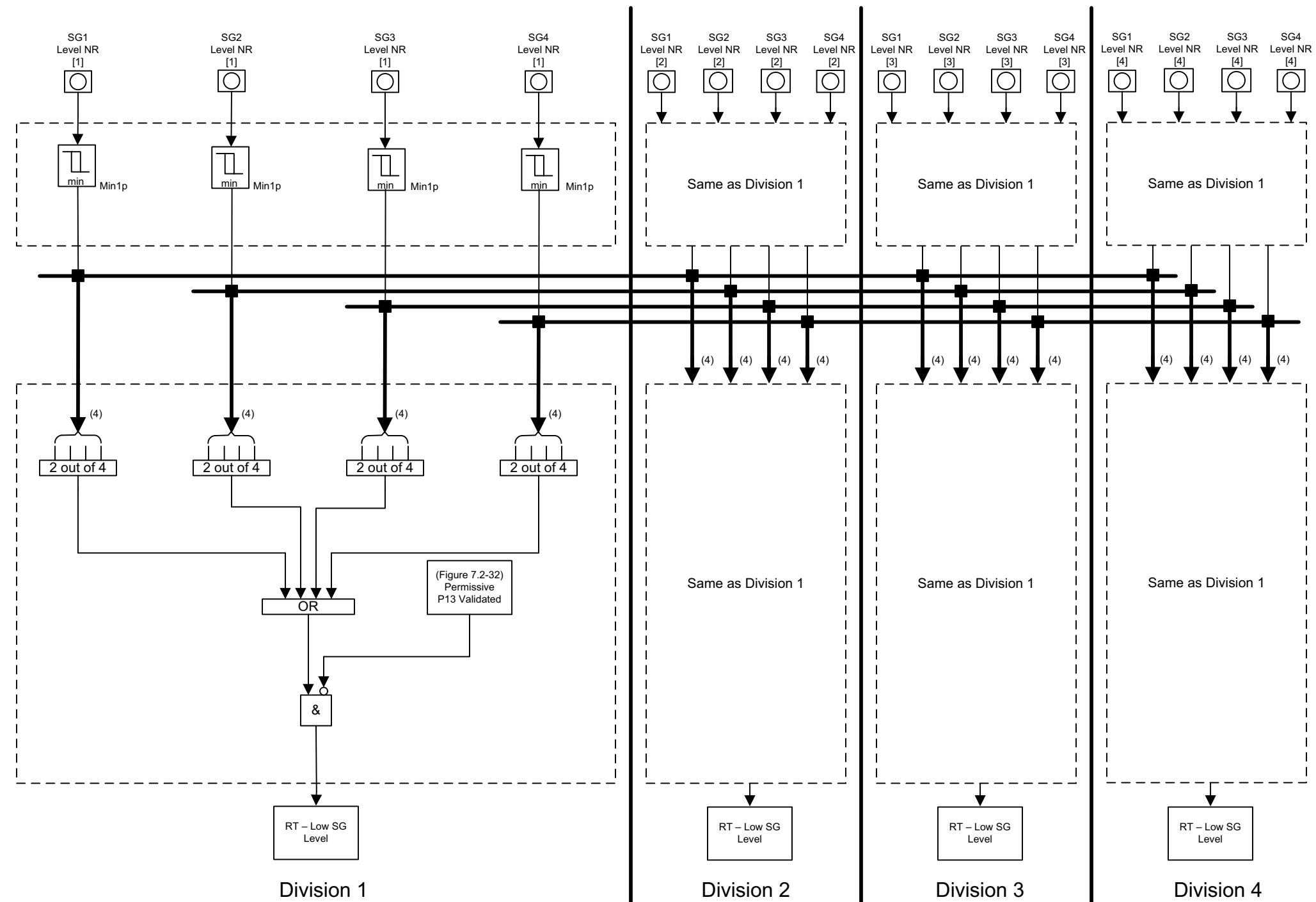EPR3190 T2

Figure 7.2-19—Low SG Pressure

Figure 7.2-20—High SG Pressure

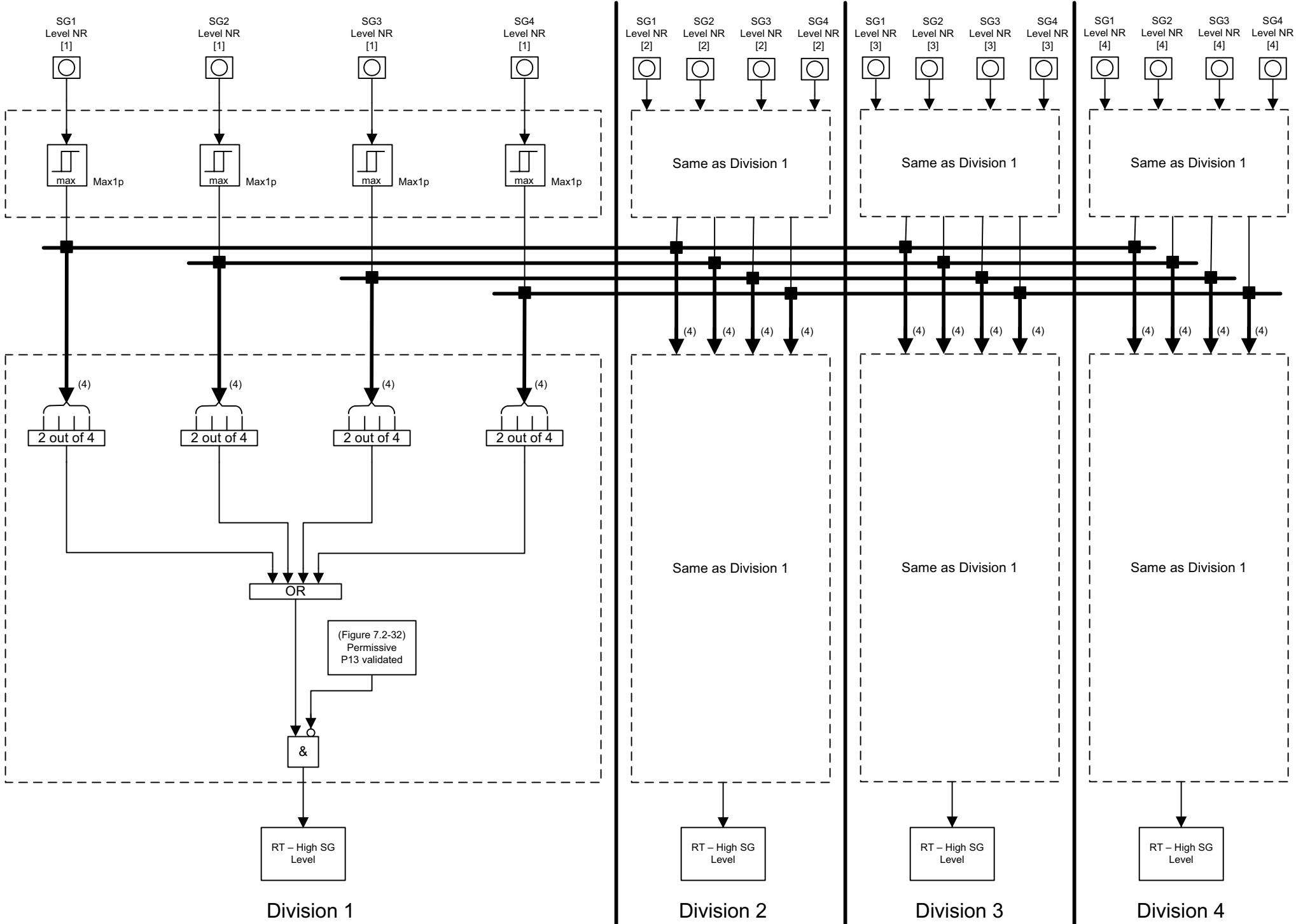**Figure 7.2-21—Low SG Level**

Figure 7.2-22—High SG Level
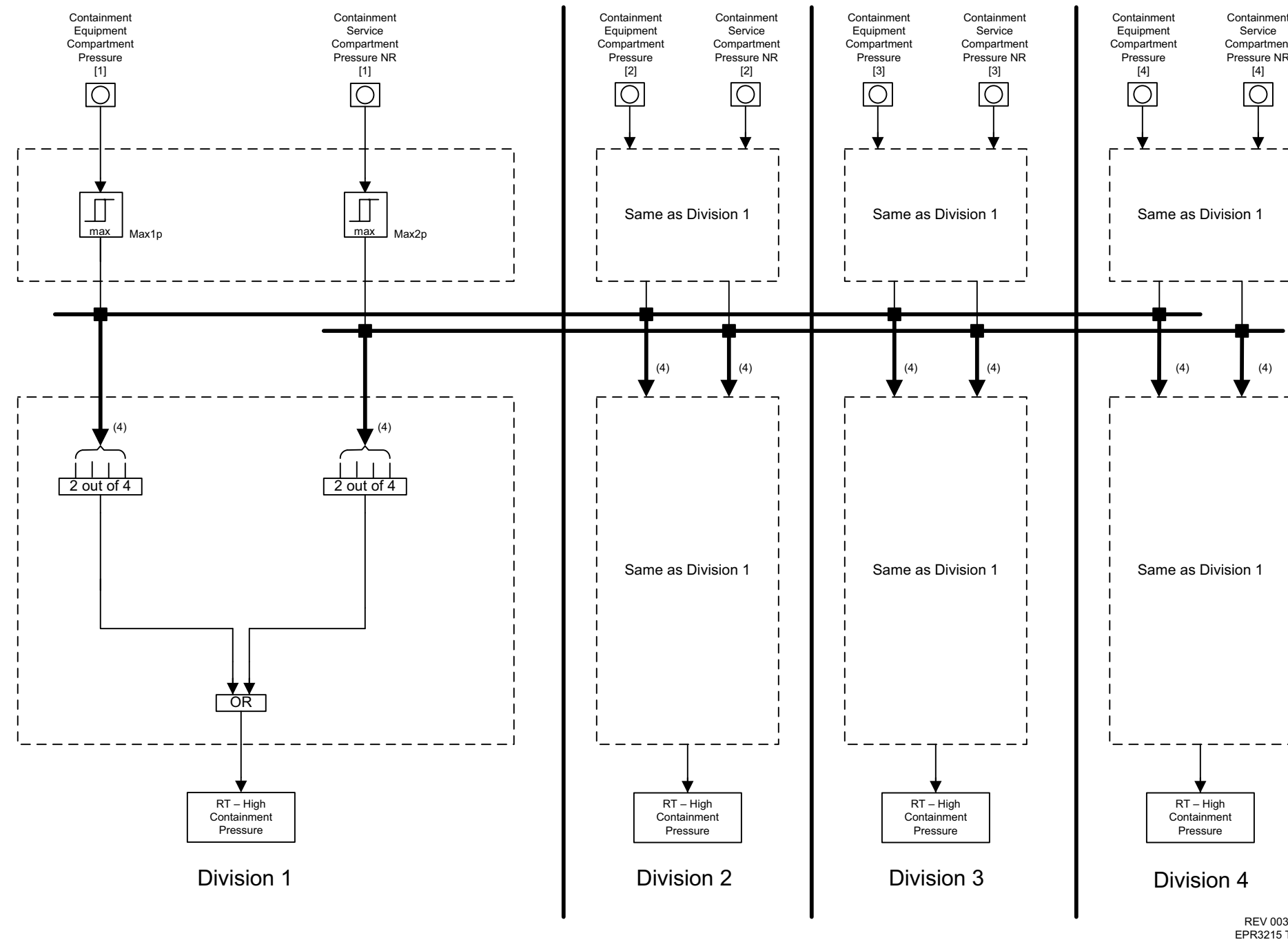

EPR3210 T2

Figure 7.2-23—High Containment Pressure

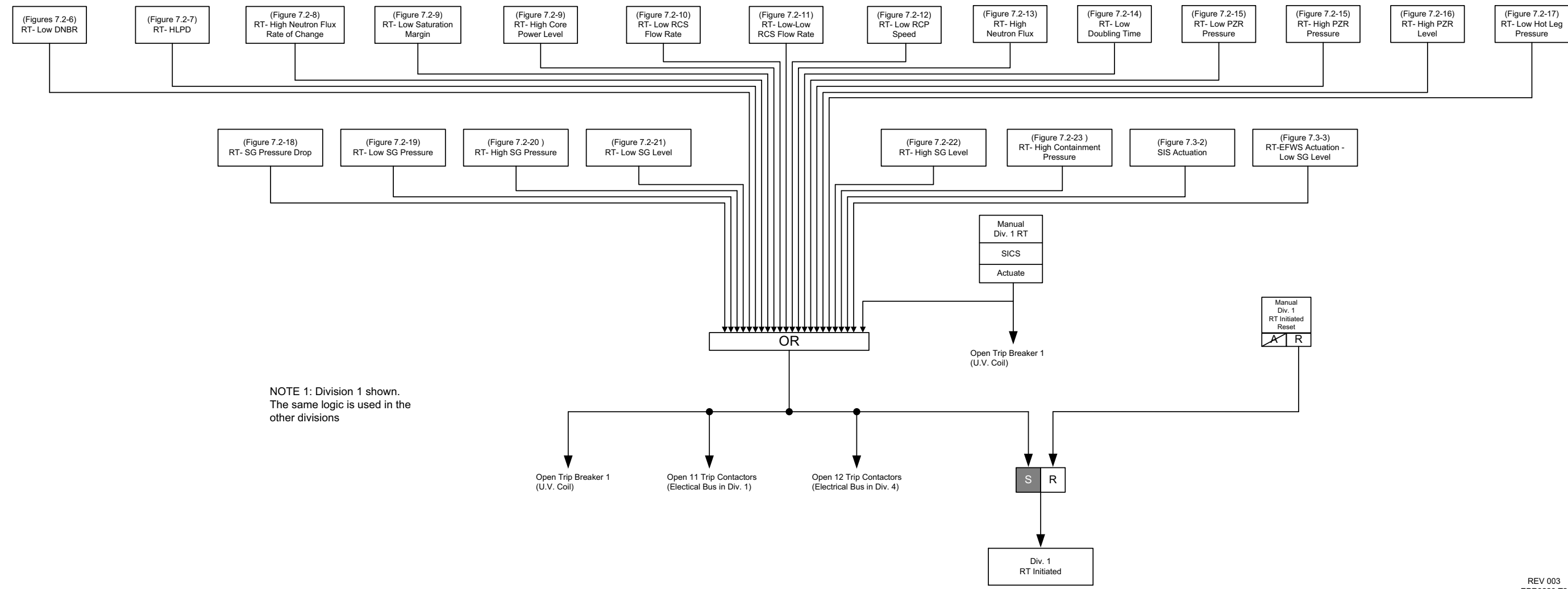**Figure 7.2-24—RT Signal Generation**
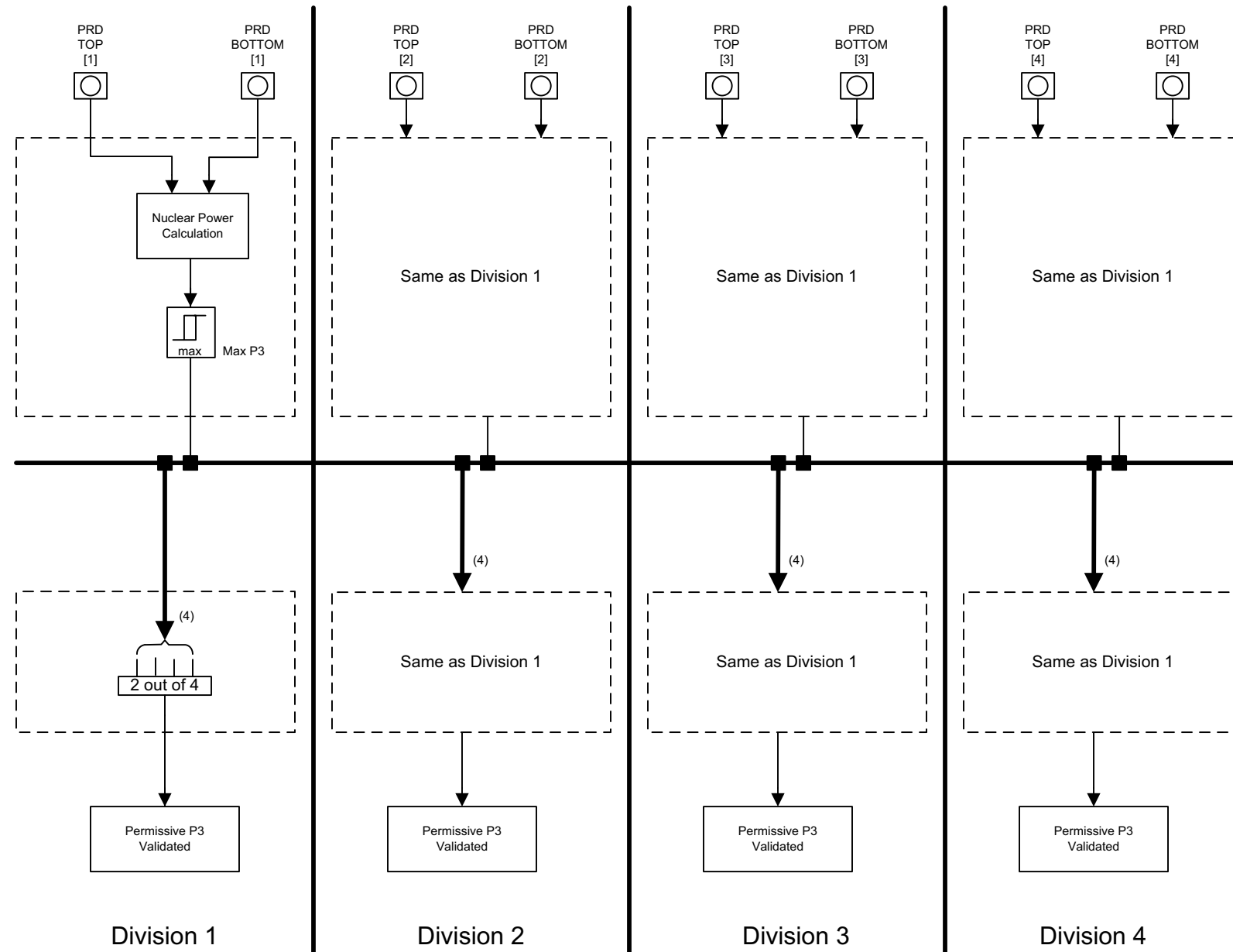

NOTE 1: Division 1 shown.
The same logic is used in the other divisions

REV 003
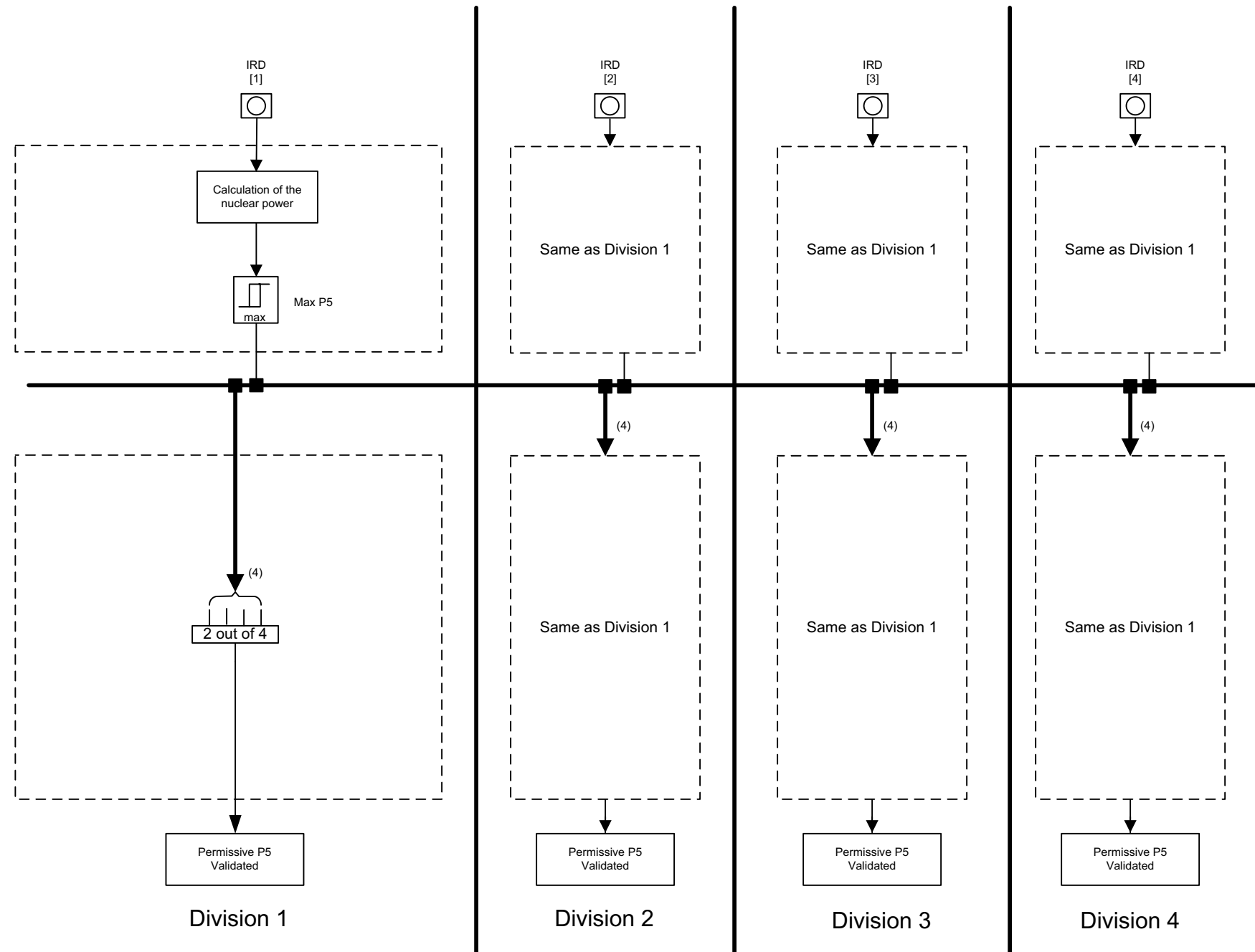EPR3220 T2

Figure 7.2-25—P2 Permissive Logic
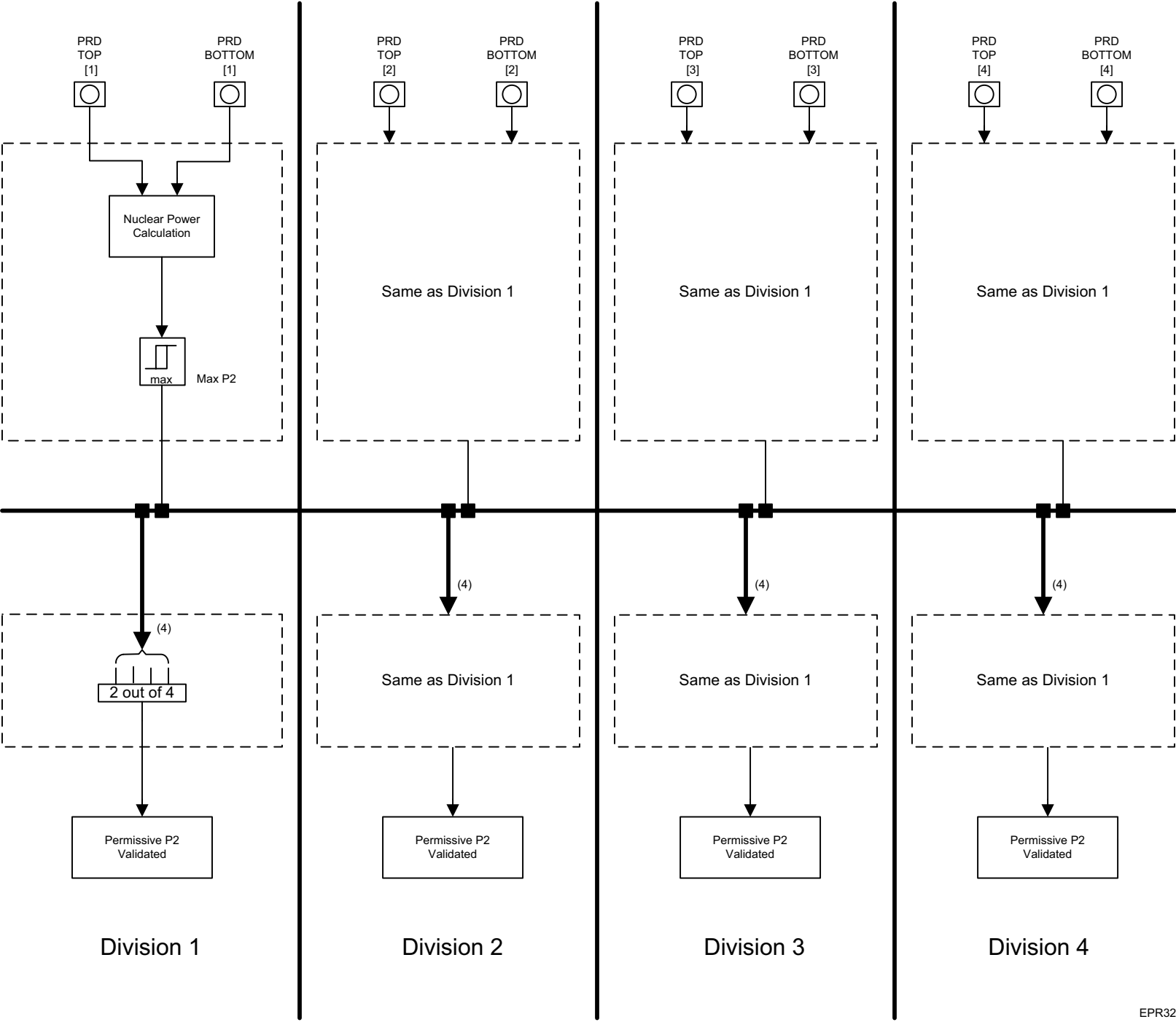
Figure 7.2-26—P3 Permissive Logic
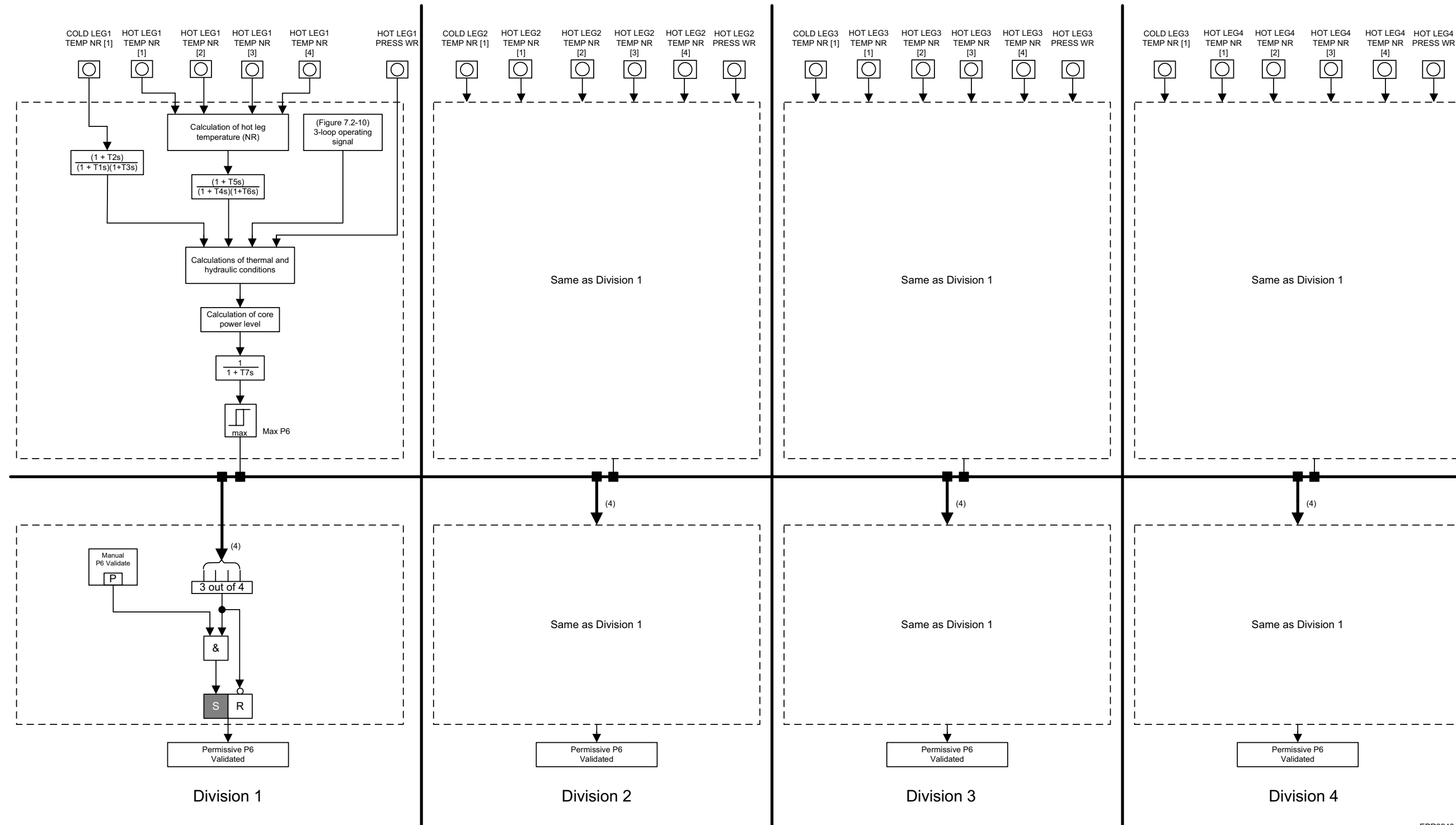

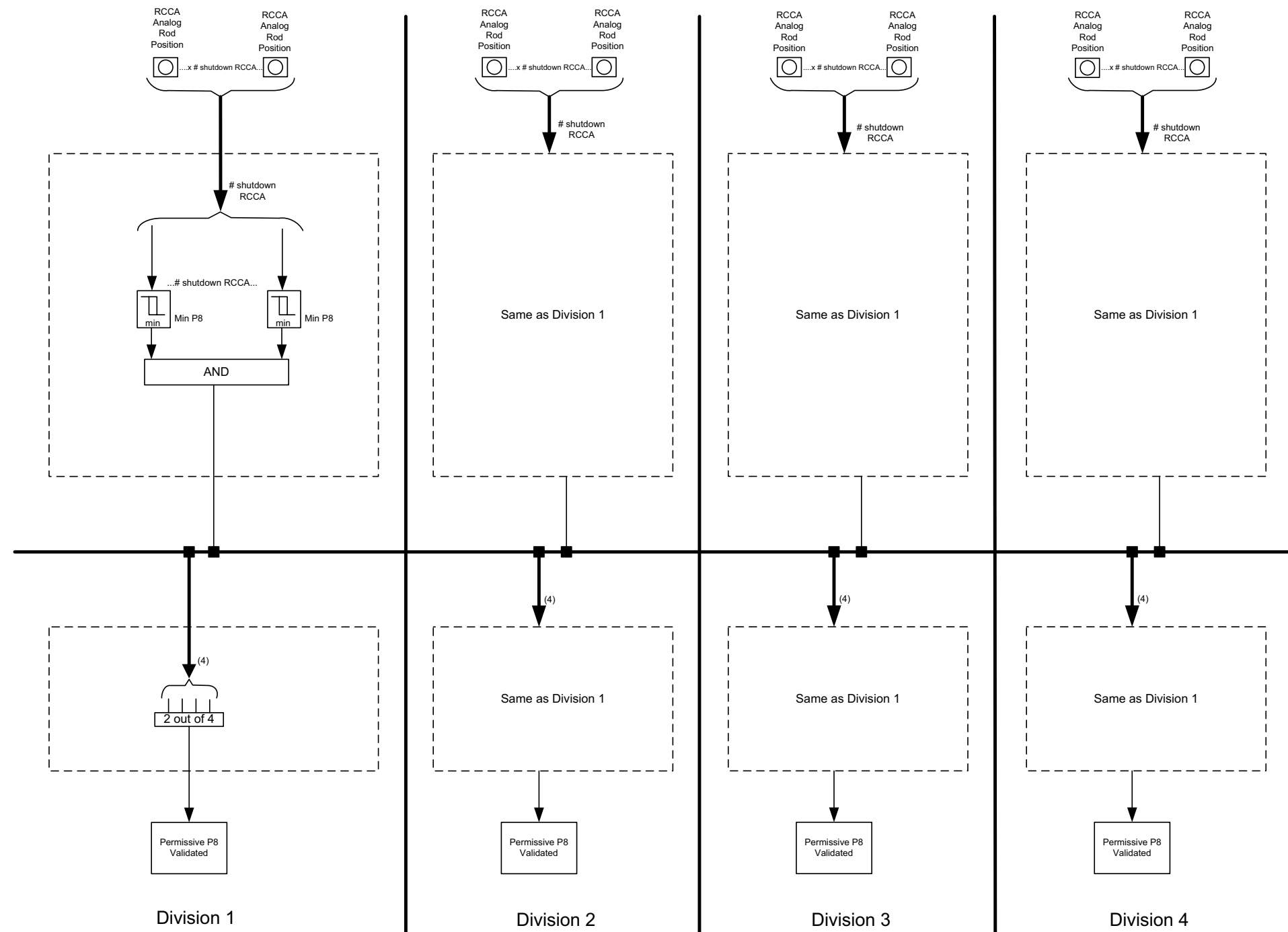EPR3230 T2

Figure 7.2-27—P5 Permissive Logic

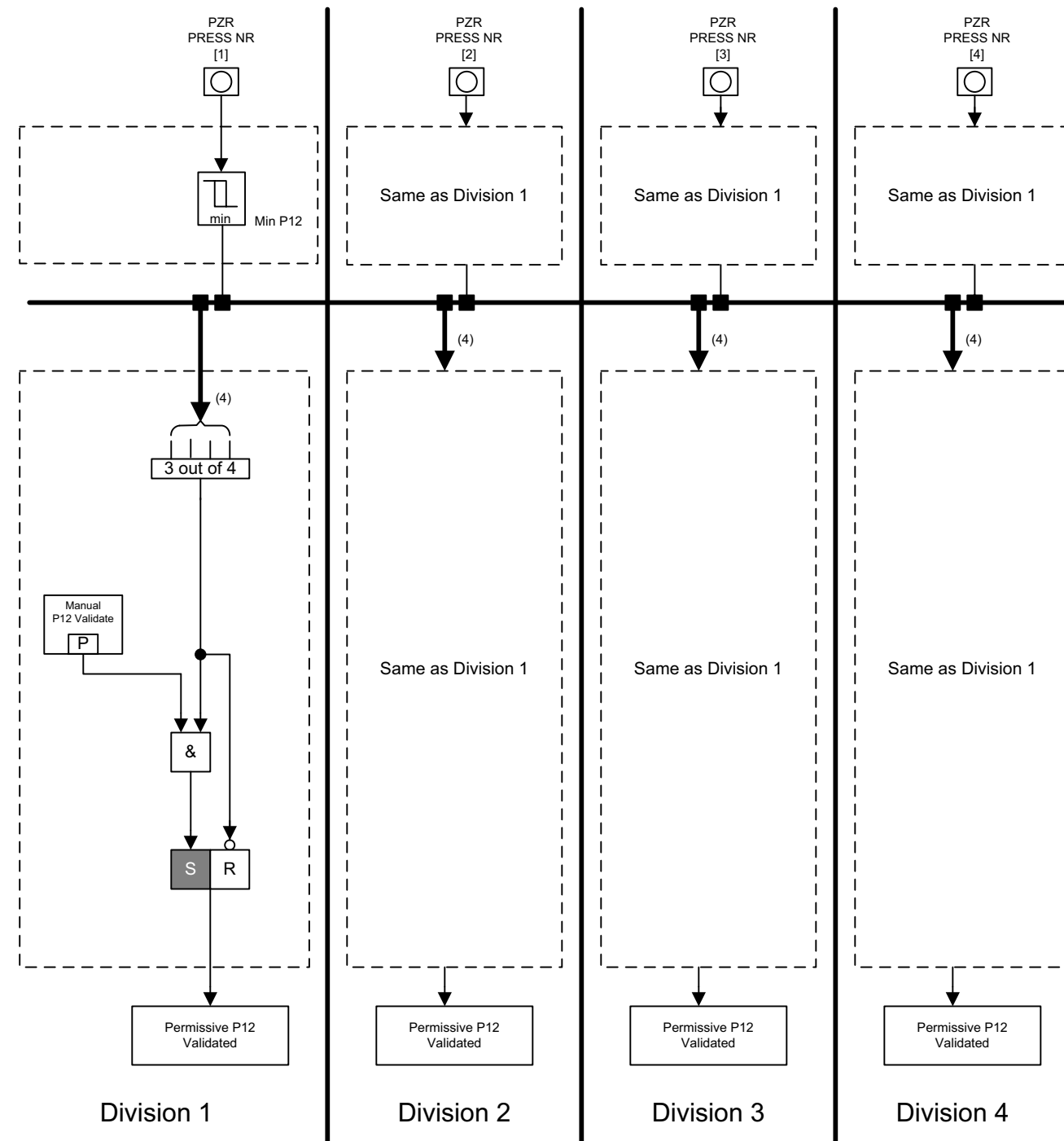EPR3235 T2

Figure 7.2-28—P6 Permissive Logic

EPR3240 T2

Figure 7.2-29—Deleted
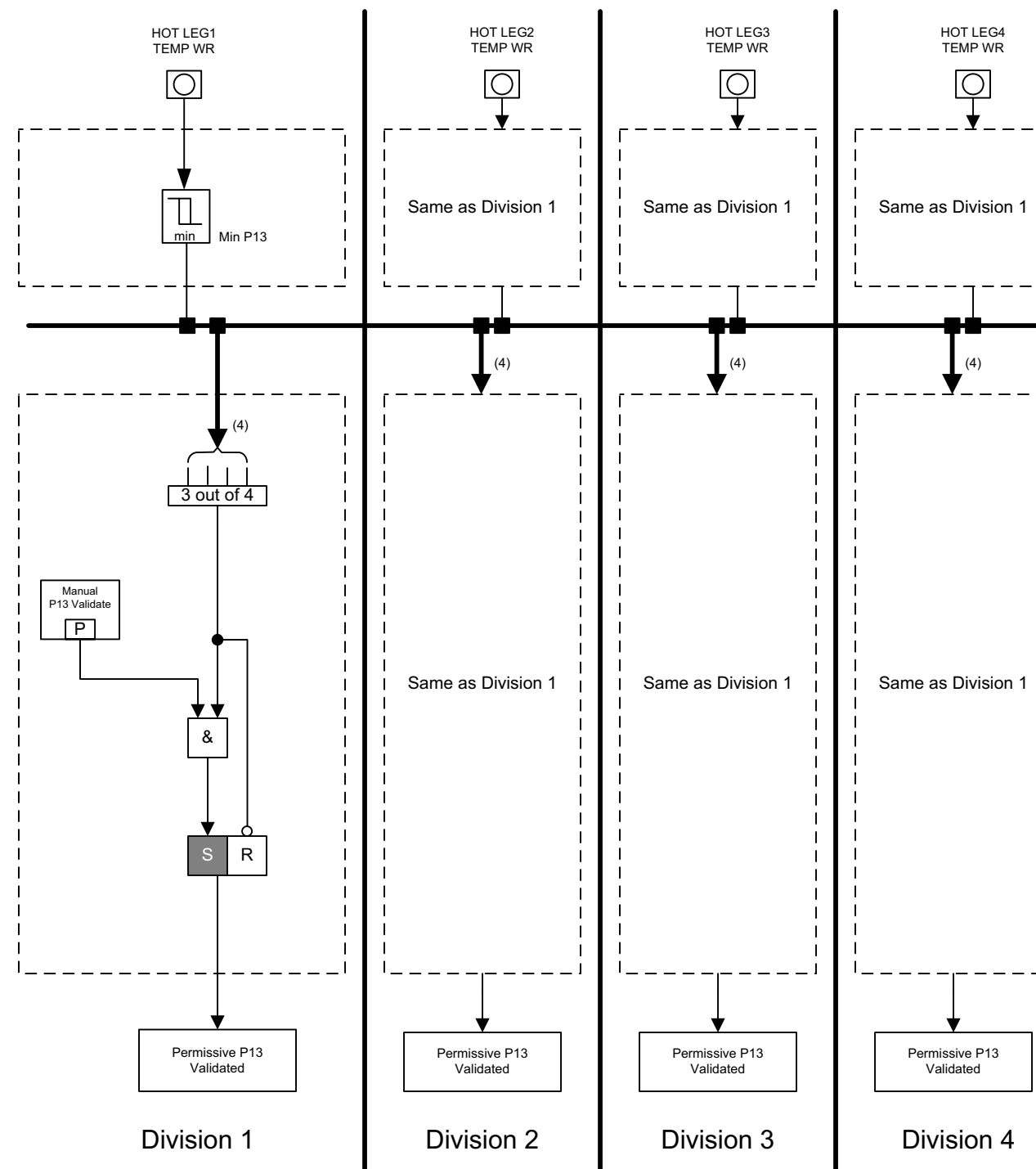
Figure 7.2-30—P8 Permissive Logic
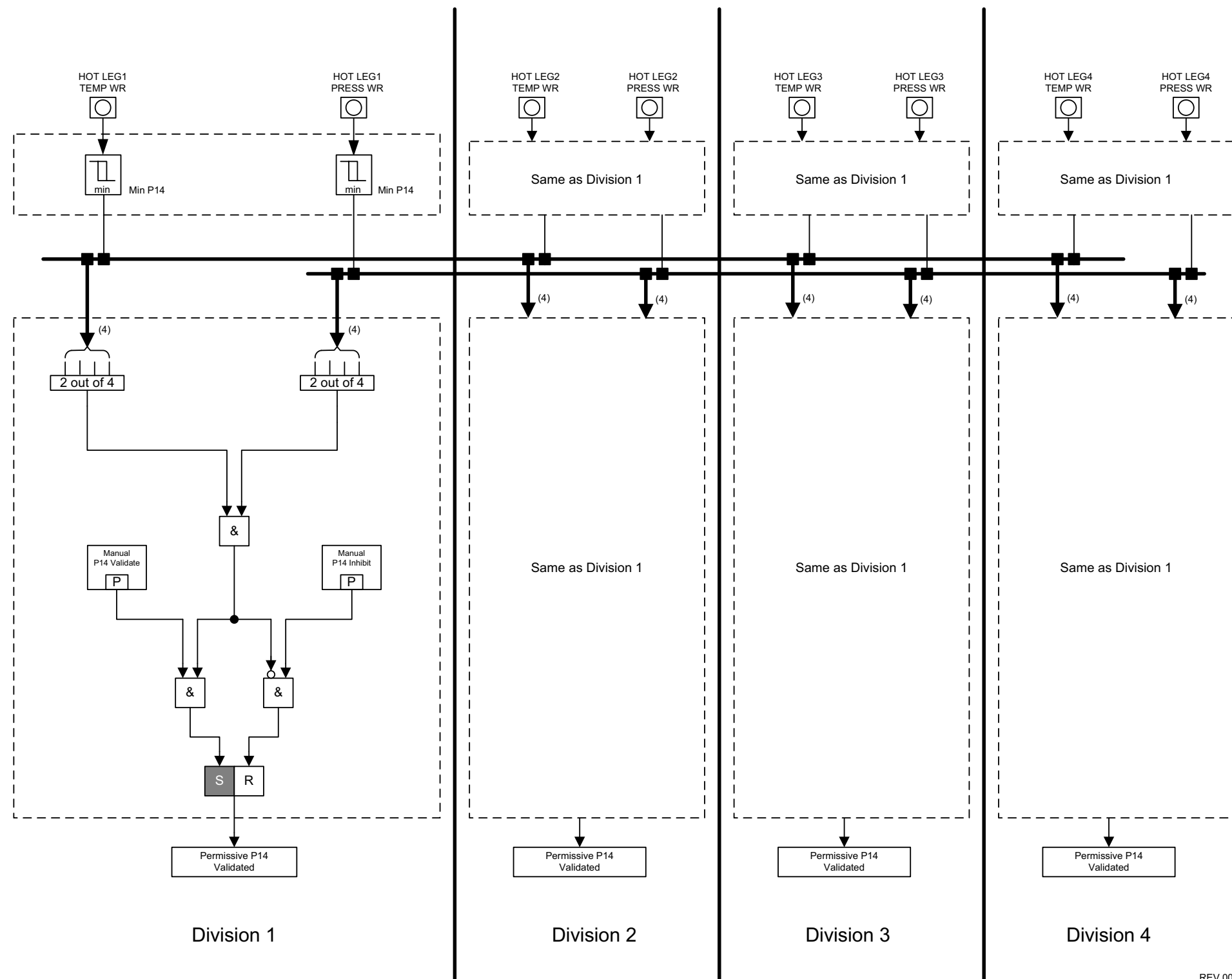
Figure 7.2-31—P12 Permissive Logic
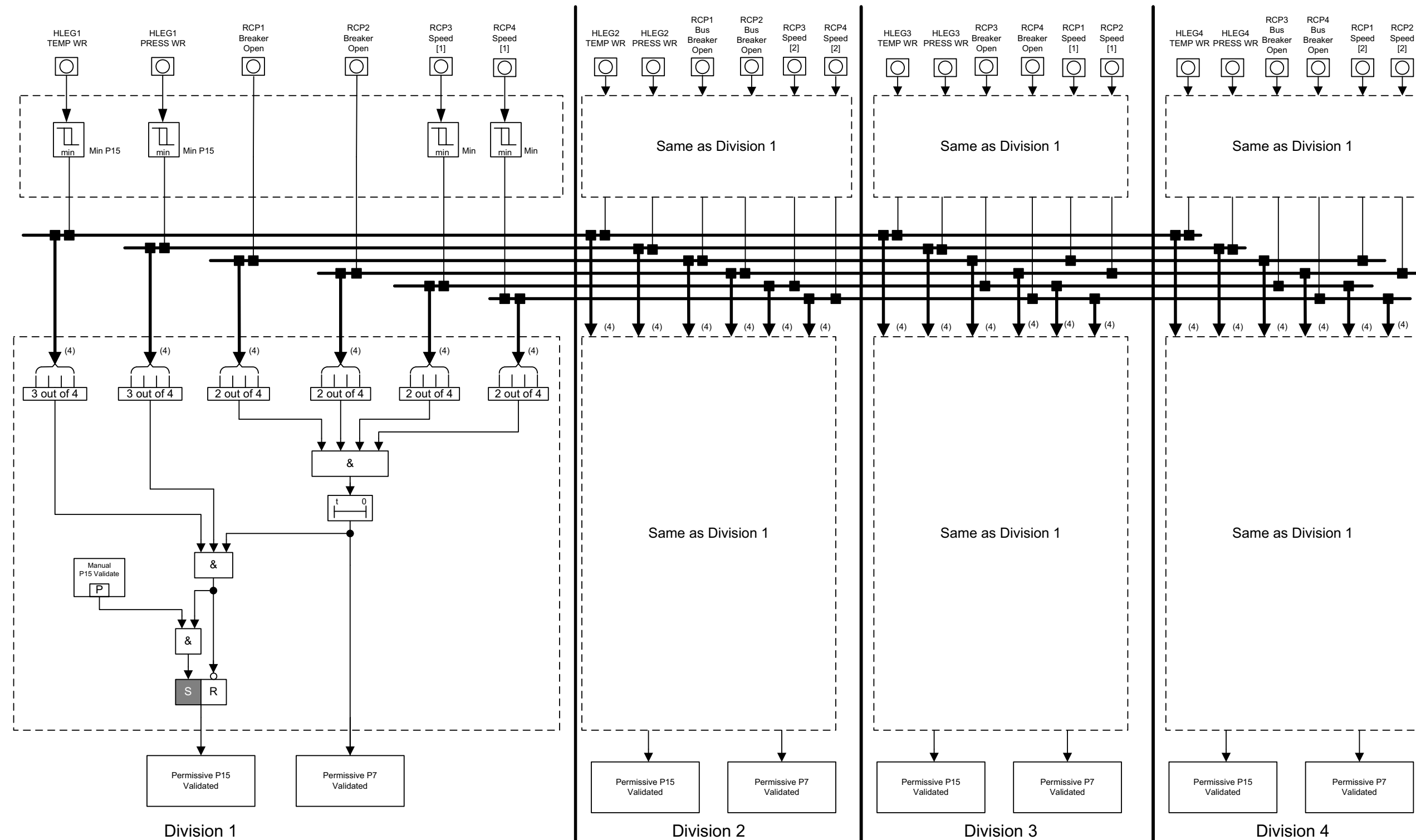

EPR3255 T2

Figure 7.2-32—P13 Permissive Logic

EPR3260 T2

Figure 7.2-33—P14 Permissive Logic

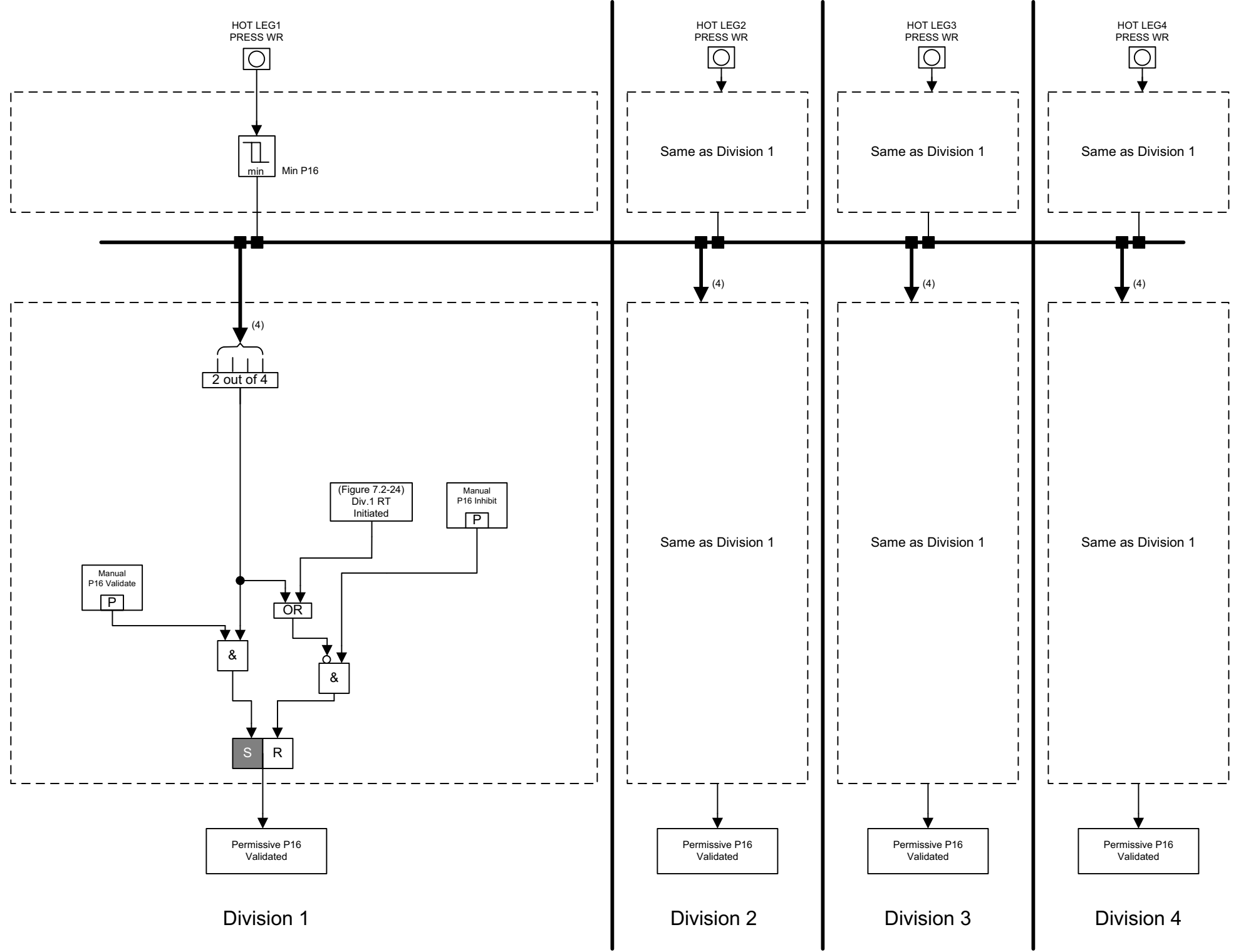**Figure 7.2-34—P15 and P7 Permissive Logic**

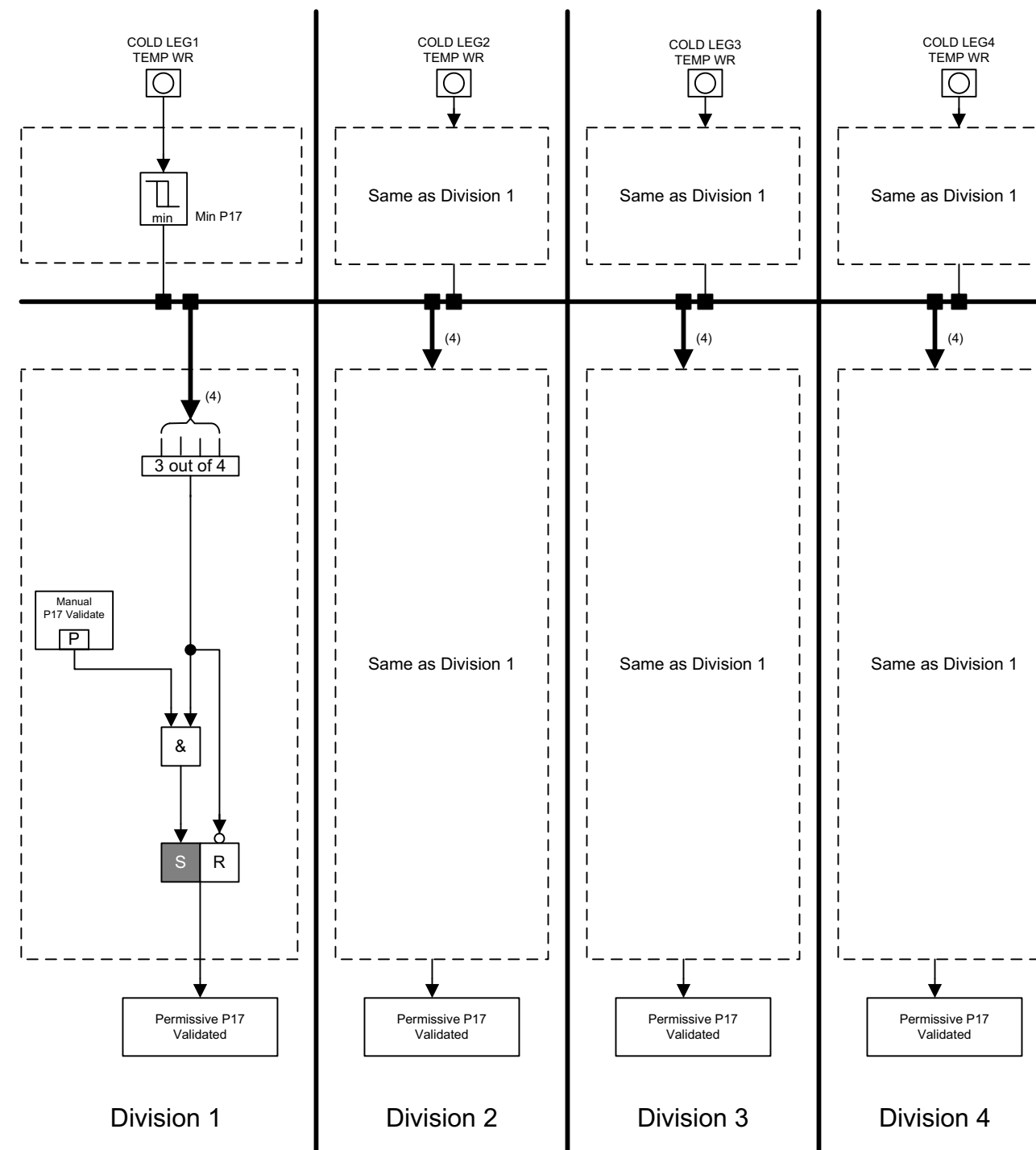**Figure 7.2-35—P16 Permissive Logic**

Figure 7.2-36—P17 Permissive Logic

EPR3280 T2

Figure 7.2-37—P18 Permissive Logic

REV 003
EPR3281 T2