

PROPOSED REVISION 15
AP1000 DESIGN CONTROL DOCUMENT

Tier 1 Subsection 2.5.3

Signal Selection

Description of Change

Revise the descriptions of the plant control system to clarify that the AP1000 plant control system uses software signal selection rather than the hardware signal selection used by the AP600.

Technical Justification

The AP1000 DCD was written with the AP600 DCD as a starting point. One change made to the design between the AP600 and AP1000 is the change from hardware signal selection to software signal selection. Changes were made in the AP1000 to reflect this change. Later review of the AP1000 DCD indicates that additional wording changes are needed to fully clarify this implementation.

Regulatory Consequence

There is no functional change to the use of signal selection to pick the preferred signal when multiple signals representing the same variable are available.

Change Markup

Revise the first paragraph of Tier 1 subsection 2.5.3 as follows:

2.5.3 Plant Control System

Design Description

The plant control system (PLS) provides for automatic and manual control of nonsafety-related plant components during normal and emergency plant operations. The PLS has distributed controllers, ~~signal selectors,~~ and operator controls interconnected by computer data links or data highways.

1. The functional arrangement of the PLS is as described in the Design Description of this Section 2.5.3.
2. The PLS provides control interfaces for the control functions listed in Table 2.5.3-1.