CURTISS-WRIGHT

Curtiss-Wright Digital Safety Systems powered by RadICS

Robust, flexible and scalable digital instrumentation and control solutions to improve plant productivity and safety

Curtiss-Wright's digital safety systems (DSS) are built using the RadICS digital I&C platform. Robust, flexible and scalable, RadICS provides state-of-the-art functions, services and safeguards for nuclear safety applications. Certified to SIL 3 in a single channel configuration, it is approved by the Nuclear Regulatory Commission (NRC) for use in safety-related systems at U.S. nuclear facilities.

DSS that we develop for customers enable the replacement and modernization of existing plant control systems, as well as helping developers of advanced reactors and SMRs to create effective and sustainable systems that complement their forward-looking design goals.

RadICS' platform is based on field-programmable gate array (FPGA) technology that is easily configured to support multiple architectures and safety applications. The platform consists of a logic module, input/output modules, and applicable specialty modules all housed in a seismically qualified chassis. The NRC safety evaluation report certified and credited RadICS' FPGA-based platform as a digitally-diverse solution to current digital system licensing concerns.

RadICS was first implemented in a commercial nuclear facility in 2011. Today, it is incorporated in more than 100 safety and control systems in operating nuclear power plants and research reactors.

Inquiries: pimcsales@curtisswright.com