



Digital Distributed Control Systems for Nuclear Applications

Benefits of Our Integrated Systems

- Reliable and trouble-free operations
- Maintainable and stable for the life of the plant
- Real-time and precise control of plant operations
- Integration of operations and business networks
- Compatible with engineering and operations simulators
- Complete toolkit to evaluate and optimize operations

What Our Customers Say

“[Curtiss-Wright] developed a completely integrated system that operates and functions as it was intended.”

“We conducted lots of industry benchmarks... we sent out RFPs to a number of different vendors... [Curtiss-Wright] offered the greatest versatility and experience.”

“We can see things in the system that we could never see before—plus we can trend it and match it up with other data.”

Curtiss-Wright has significant experience developing digital Distributed Control Systems (DCS) for existing and new nuclear facilities.

Modernization

Curtiss-Wright has successfully supported the U.S. nuclear industry’s upgrade of aging, obsolete systems in more than 60 large scale projects over the past 25+ years. These upgrade projects replace aging analog instrumentation and control (I&C) systems with digital technologies, helping customers keep pace with rapidly advancing technologies, recruit and retain technical talent, and optimize plant performance all while providing the following operational benefits:

- Improved system reliability
- Improved monitoring capabilities
- Increased automation capabilities
- Increased system flexibility
- Reduced operational costs

We use intelligent technologies that seamlessly interface with legacy and analog plant systems which provide high quality information for plant personnel to optimize plant efficiency, reduce operational risk, and improve sharing of plant health status information.

New Nuclear

Our team is well-versed in supporting the design and development of digital I&C systems on new nuclear projects for power generation and waste management with both commercial and government customers. Digital I&C designs provide access to real-time data and visibility of plant health monitoring data. The improvements in data quality and fidelity, in addition to all the other benefits of the Curtiss-Wright digital I&C systems, simplifies the review and approval process by design and regulatory authorities.

Benefits of Our Digital DCS

Enhanced Data Performance – Digital DCS provides rapid access to in-depth instrument and sensor data using customer specified algorithms and user interfaces. Digital DCS efficiently provides enhanced data performance and self-diagnostics that require fewer labor hours to operate and maintain when compared to legacy and analog systems.

Improved Monitoring and Diagnostics – Digital DCS provides diagnostic monitoring in a centralized location, facilitating analysis and data sharing with other operator groups and managers. Plant operators and managers can use the high-quality plant health information to track trends and identify emerging equipment issues. The improved access to high-fidelity and timely data facilitates efficient planning of routine maintenance and periodic upgrades.

Trusted and Proven Technologies – Digital DCS is built on the same powerful R*TIME software incorporated into the Curtiss-Wright Plant Process Computer systems which have been successfully delivered in more than 60 large scale projects in the U.S. Digital DCS is highly capable and robust, making it an ideal platform for even the most demanding applications.

Cost Savings – Digital DCS integrates with other plant systems including health status systems, plant historian, and other performance monitoring systems. Integration of many systems significantly reduces the time, energy, and cost of operations and maintenance for our customers.

Flexible Technology – Digital DCS is technology independent and often deployed on customer specified platforms. Flexibility and adaptability are built in, providing our customers with the ability to upgrade and integrate their systems for more than 20 years.



Curtiss-Wright technical teams ensure full compliance with customer specifications.

Digital Distributed Control Systems

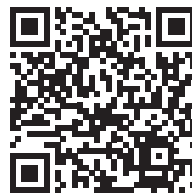
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Modernize Aging Control Systems with Robust Technologies

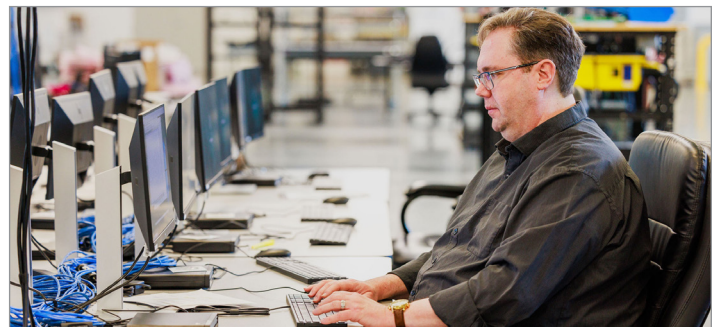
Curtiss-Wright's user-friendly and comprehensive digital DCS interface makes it easy to bring analog systems into the digital age, providing advanced monitoring and diagnostic data tools for legacy and analog equipment.

We leverage state-of-the-art hardware technology commonly found in mission-critical systems throughout the nuclear industry. This simplifies development and operations, providing significant savings to our customers.

Digital DCS provides operators and managers with high-fidelity data in real time to make well-informed decisions regarding plant performance, output levels, and overall health resulting in improved revenue and lower costs.



Scan QR code for more information.



Curtiss-Wright engineers and software programmers customize each application to seamlessly interface with existing plant systems.