

Products and Services

Department of Energy Solutions

**CURTISS -
WRIGHT**



Curtiss-Wright offers a comprehensive range of products and services that support the U.S. Department of Energy's Office of Environmental Management, Office of Nuclear Energy, the National Nuclear Security Administration, and the complex of National Laboratories. Our advanced technologies and innovative solutions have been used in civilian operating reactors for over 55 years, sustaining the safe and reliable operation of nuclear operating reactors throughout the world. We continuously provide technologies and experience in support of aging equipment management/replacement, new construction, and offer proactive solutions to critical plant obsolescence issues.

Our Quality Assurance programs are maintained at the highest standards of excellence in support of rigorous industry requirements. We meet 10CFR50, Appendix B; 10CFR20; ASME NQA-1; and ASME Sections III and XI. We possess ASME N, NPT, NR, NS, UV, and VR Certificates, including Material Organization (QSC-614) capabilities. We are audited by the Nuclear Regulatory Commission (NRC), Nuclear Procurement Issues Corporation (NUPIC), and the Nuclear Industry Assessment Corporation (NIAC).

We have invested in new companies, new technology, expanded technical staffing and infrastructure to strengthen our capabilities and industry support. Our company provides unmatched knowledge, experience and technical superiority, making Curtiss-Wright ready and able to meet the demands of Department of Energy facilities.

Curtiss-Wright has proven its long-term commitment to serve the civilian and research operating reactor industry. We will be there in the future to provide next-generation technology, equipment, services and experience, and we stand ready to support our industry's complex and evolving requirements.

Department of Energy Solutions

CWNUCLEAR.COM

Products and Services

Department of Energy Solutions

Actuators

- Electro-Hydraulic
- Pneumatic

Airlocks, Hatches, & Doors

- Personnel/Containment Airlocks
- Equipment Hatches
- Specialty Doors

Cables & Connectors

- Safety-Related & Environmentally Qualified Products
 - Specialty Tools
 - Cable Assemblies
 - Electrical Penetration Assemblies
 - Single & Multi-Conductor Connectors
 - Class-1E Splice & Sealing Products
 - Safety-Related Instrument Racks, Cable Trays

Safety-Related Instrument Racks, Cable Trays, & Construction Products

- Anchors/Structural Bolting/Fittings
- Cable Trays
- Hangers
- Metal Framing Systems

Control Systems

- Digital Safety Systems
- Digital Control Systems
- Modern Analog Safety Systems
- One-To-One Replacement or Refurbishment of Existing Systems

Electrical Products

- EGS Electrical Connectors
- Reactor Cable Assemblies
- Electrical Penetration Assemblies
- Quick Disconnects (QDC)
- Electrical Splicing Products
- Electric Motors
- Motor Control Centers (MCCs)
- UPS Systems, Inverters
- Electrical Equipment Panels and Racks

Engineering Services

- Engineering Services: Application, Design, Analysis, Document Evaluation
- QA/QC Services: Program Development, Procedure, Review, QA Oversight, Audits, Training
- QC Inspection Services: Civil, Electrical, I&C, Mechanical, Structural, Welding
- ASME Code Program Development, Review, Implementation
- Project Engineering/Management

Fasteners & Precision-Machined Components

- ASME, Safety-Related, Commercial Grade
 - Standard & Specialty Fasteners
- Specialty Parts Fabrication, Any Size or Alloy
- Safety-Related Metal Framing Systems
- PlasmaBolt® Anti-Galling Fasteners

Fluid Sealing Products

- Mechanical Packing
- Gaskets & Textile Sealing Products
- Graphite Pressure Seals
- Specialty Sealing Products

I&C Products

- NUS Instrumentation
- I&C Replacements for Obsolete Analog Instr.
- Reengineering, Qualification

NDE/NDT Services

- UT, MT, PT, ET, VT
- Training Programs
- SG Eddy Current Data Analysis
- Innovative Phased Array UT Applications
- Heat Exchanger Inspection (ET, RFT), Condition Assessment, Monitoring
- Nuclear PSI, ISI Services
- PDI-Qualified Examiners, Equipment

HVAC Equipment

- Air Doors
- Chillers
- Blowers
- Fans
- HEPA Filters
- HVAC Equipment
- Motors

Obsolescence Support

- Reverse Engineering, Repair/Refurbishment, Substitution, Special Manufacturing Runs, Design Change
 - Proactive Obsolescence Planning
 - EOS (Engineered Obsolescence Solutions)
 - ObSolutions
 - Third Party Replacement Parts
 - Analog, Digital Control Modules
 - OIRD (Obsolete Item Replacement Database)

Plant Performance Services

- Condition Monitoring
- Equipment Reliability
- Regulation and Information Services
- Plant Process Computer Systems
- FAMOS Plant Performance Improvement Suite
- Radiation Protection Management
- Plant Monitoring Real Time Data Acquisition and Display Software
- Security Screening Information Systems
- Thermal Performance Training
- Worker In-Process System

Qualification, Testing, & CGD

- Harsh Environmental Qualification Meets Generation III+ Designs
- Equipment & Environmental Qualification
- CGD - Third-Party
- Seismic Testing, Flow Testing, & Containment Integrity Testing

System Integration/Fabrication

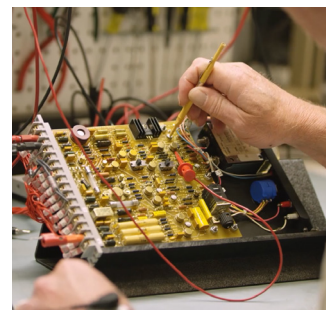
- HVAC Systems & Equipment
- Tank & Vessel Fabrication
- Expansion Tanks
- Accumulators
- Skid Fabrication

Tensioning Devices

- HydraNut® Bolt Tensioning Systems
- Multi-Stud Tensioners

Valves

- Isolation
- Single, Double, & Triple Offset Butterfly
- Pressure Relief
- High Pressure Gate, Globe, & Check
- Large-Bore Gate Valves
- Ball
- Diaphragm
- Valve Automation



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