



INSTRUMENTATION & CONTROL ENGINEERING

Highlights

- More than 60 years' experience in the design and manufacture of sophisticated nuclear power station equipment, including complex mechanical fuel handling equipment, on-reactor/in-reactor tooling, and maintenance tooling
- The control systems and instrumentation involved within Fuel Handling Systems and other parts of the plant are often complex and specialized areas. Our Engineering team have the expert knowledge, legacy information and skill set to support our customers with engineering design, troubleshooting, maintenance and support work.
- We use AutoCAD®, AutoCAD Electrical® and IntEC® to create concept drawings, detailed designs, elementaries, BOMs, wiring diagrams and can also provide design replacement solutions for obsolete components such as relays, motors and circuit cards.
- Our scalable approach allows focus on small jobs through to larger multi-disciplinary projects. As demonstrated by our previous successes, our goal is to deliver quality, on-budget and on-time solutions.
- Through many years of experience completing modification packages, BWXT NEC's I&C Engineering fully understands the requirements of the engineering change control process, including the preparation of change papers and closeout packages.



Nuclear Energy Canada Inc.

Knowledge Areas

- Design engineering, prototyping, testing, commissioning, installation, support and training
- Temporary/Permanent Modifications, close-outs
- Reactor tooling design/control systems
- Fuel Handling control systems: hardware, design, replacement, obsolesce, upgrades
- Fuel Handling Controller OPDATA; creation, review, verification on simulator and training
- PDP-8, PDP-11 Computers, ACE, Multiplexers, Control Consoles
- Aging & Obsolescence, Assessments, Item Equivalency, Commercial Grade Dedication
- Drawing and document creation and revision
- IntEC® wiring changes: review & concurrence
- Troubleshooting, maintenance, support and training
- Instrumentation
- Power distribution systems/carts
- Electronic circuit design & repair

Products & Services

- Defuelling & Refurbishment
- Reactor inspection tooling
- Fuel Handling protective computer replacement
- Legacy inverter replacement
- Reactor Area Bridge independent control
- Retube tooling
- Trolley Rehab
- Delayed Neutron (DN) Monitoring System
- Drawdown & Site-support contracts

People Strong

INNOVATION DRIVEN >

BWXT Nuclear Energy Canada Inc. is a subsidiary of BWXT Canada Ltd.(BWXT Canada), headquartered in Cambridge, Ontario. BWXT Canada has over 60 years of expertise and experience in the design, manufacturing, commissioning and service of nuclear power generation equipment. This includes steam generators, nuclear fuel and fuel components, critical plant components, parts and related plant services. BWXT Canada's sister company, BWXT Medical Ltd. (BWXT Medical) provides its customers, who conduct life-saving medical procedures for patients around the world, the benefit of decades of experience in the development, manufacturing, packaging and delivery of medical isotopes and radiopharmaceuticals. Headquartered in Cambridge, Ontario, BWXT in Canada has approximately 1,400 employees at locations in Cambridge, Dundas, Peterborough, Toronto, Arnprior, Pickering, Port Elgin, Owen Sound, Kanata and Oakville, Ontario and Vancouver, British Columbia. BWXT Canada is a subsidiary of BWX Technologies, Inc. (NYSE: BWXT). Follow us on Twitter @BWXTech and learn more at www.bwxt.com.

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