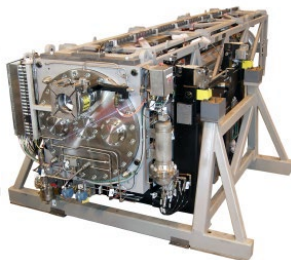


MECHANICAL EQUIPMENT ENGINEERING

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
- Possess expert knowledge of mechanical equipment design and fabrication including conceptual and detailed design skills, planning, complex stress analysis (ANSYS®), and modelling (INVENTOR®); all to provide innovative engineering designs and/or equipment modifications.
- Support customers with training, maintenance strategies and provide troubleshooting.
- Track recurring maintenance, obsolescence, and design modification parts data used to develop Fuel Handling equipment overhaul and maintenance Parts Kits.
- Extensive experience completing modification packages with an in-depth understanding of the Utility engineering change control process, (ECC), including the preparation of change papers and directly interfacing with our customers' enterprise asset management systems (Asset Suite, PassPort).

UDM



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Knowledge Areas

- Remote Handling Systems/Delivery Systems
- Fuelling Machine (FM) and FM Suspension
- Reactor Area and Service Area Bridges
- Fuel Channel Components including Channel Closure, Shield Plug and Liners
- Power Track and Trolleys
- New Fuel Transfer Mechanisms
- Irradiated Fuel Discharge Mechanism and Bay Tools

Services

- ASME Code Design
- Welding Design
- Development and Test Programs
- Tooling Design and Manufacturing Technology
- ASME Section III, Section VIII, B31.1 and CSA N285 Codes and Standards
- 3D Modelling, Drawings (Assembly and Parts) and BOM Preparation
- Testing and Commissioning
- Troubleshooting, Maintenance, Support and Training

Project Experience

- Inspection and Maintenance Systems (MiniSLAR, CIGAR, UDM, BRIMS)
- Bruce Delayed Neutron (DN) Monitoring System
- Swivel Head Grapple
- Fuelling Machine Refurbishment
- Fuel Channel Components including Fuelling with Flow (FWF) Carriers and Universal Carriers
- Fuel Push Tool (FPT)
- Resonator Inlet Shield Plug (RISP)
- Channel Closure / Seal Disc
- Retube Tooling
- Defuel Tooling
- Aging and Obsolescence and Life Cycle Management
- FH D₂O Process Systems
- Containment Penetrations
- Platform Structures
- Portable Force Calibration Tool (PFCT)



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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