



rpc

SCIENCE & ENGINEERING

921 College Hill Rd. Fredericton, NB Canada E3B 6Z9
150 Lutz St. Moncton, NB Canada E1C 5E9

Energy Sector Services

RPC serves the specialized needs of the energy sector with a highly qualified team of engineers, metallurgists, technologists, inspectors and machinists. Our reputation to deliver value to clients has resulted in a portfolio of satisfied energy clients throughout Canada and has included successful international projects at CANDU reactors in China, Korea and Argentina. Our capable staff is well supported with sophisticated inspection equipment, laboratory and testing equipment and a well equipped machine shop.

Services designed to meet the needs of the energy sector:

- Tooling design and fabrication (for inspections, repairs and refurbishment)
- Ultrasonic flow measurements for plant optimization
- Ultrasonic pipe wall thickness / corrosion monitoring devices
- On-site metallurgy and failure analysis
- Specialized non destructive testing (NDT) services
- Mechanical testing and weld procedure qualification
- On-line plant condition monitoring
- Mock up and testing specialists

Past Projects / Clients

- Developed the FOLTM on-line pipe thickness monitoring system for CANDU nuclear industry
- Performed flow commissioning of 380 feeders at Point Lepreau NGS
- Developed radiography and magnetic rubber inspection tooling for AECL
- Developed flow-assisted corrosion probes for AECL – Chalk River
- Completed life extension inspections throughout NB and NS
- Performed on-site strain gage testing of turbine stay rings at Mactaquac hydro station
- Completed Metallurgy investigations at various fossil fuel energy plants
- RPC staff have been seconded for special projects at CANDU reactors throughout Canada and internationally
- Collaborated with the Center for Nuclear Energy Research to research, develop, and commission innovative on-line probes
- Provided environmental chemistry services to assist energy producers with analyzing by-products/emissions
- Completed environmental process demonstrations, evaluations and optimizations for remediation & recycling

Accreditation

RPC is certified by the Canadian Welding Bureau for W178.1 and is a qualified vendor to many power utilities under CSA Z299.2. RPC's quality management system is registered to ISO 9001:2008. Staff receive and maintain specific power utility training necessary for plant access, e.g. 'orange badge' training for access to radiation areas of reactors.

Contact

John Aikens, P.Eng.
Department Head, Mechanical Systems
Tel: 506.460.5766
e-mail: john.aikens@rpc.ca

www.rpc.ca