



Maintenance Training and On-site Service Support

All of Candu Energy's pump seals come with comprehensive operating and maintenance documentation as well as training programs for plant staff. We offer on-site training courses in:

- > Flatness measurement and lapping
- > Refurbishment and assembly of pump seals and seal cartridges
- > Operation of pump seal maintenance equipment
- > Our on-site service support utilizes highly trained and experienced technicians.

Candu Energy's pump seals can be used in CANDU and light water reactors. Below is a list of where our pump seals have been, or are in the process of being installed.

Candu Pump Seal	Replaces	Locations
CAN10	Byron Jackson (now Flowserve) 8.75"	LaSalle County
CAN8	Byron Jackson (now Flowserve) 7.000", 7.375", and 8.000"	Clinton, Grand Gulf, Bruce, Darlington, Leibstadt, TEPCO
CAN6	Union HTS pumps 2" shaft diameter	River Bend, Clinton, Grand Gulf, Perry, Laguna Verde, Limerick
CAN2	Byron Jackson SU 5.500" and 5.875"	Nine Mile Point, Duane Arnold, Oyster Creek, Hope Creek



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NUCLEAR OFFICE

2285 Speakman Drive
 Mississauga, ON, L5K 1B1, Canada
 Telephone: +1 905 823 9040
 Email: nuclear@snclavalin.com



www.snclavalin.com/nuclear

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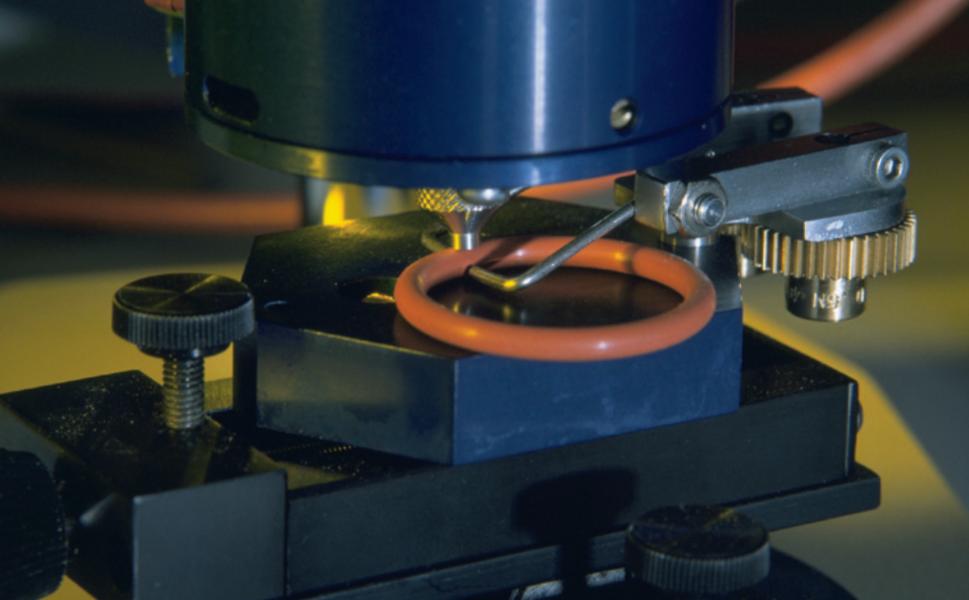


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Pump Seals

Nuclear





SNC-Lavalin – Reliable, Proven

Being able to provide safe and reliable solutions through superior technology is vital in the nuclear industry. With more than a century of experience in the power sector, and over 60 years invested in the nuclear industry, SNC-Lavalin develops nuclear projects, products and services tailored to our clients' needs. Safety, quality, innovation and excellence in project execution are the values we live every day.

Candu Energy, a Member of the SNC-Lavalin Group is ISO 9001 registered.

Our nuclear team brings its expertise to the light water and heavy water reactor markets. We strive to “think like an operator” to bring you solutions to issues before they arise.

Installations Around the World

Our pump seals are installed in nuclear stations around the world. Many utilities have chosen to replace their original pump seals with our reliable and top performing designs to increase operational safety, performance and reliability.

Our pump seal operation and maintenance advantages include:

- > Tolerance to pressure and temperature variations well in excess of specified requirements
- > Reliable operation for two to three times longer than OEM seals resulting in lower maintenance costs
- > Two stage seal assemblies are designed and tested to operate at full system pressure with one functioning stage
- > Compatible with existing pump seal cartridges with less time and effort required for replacement and significant reductions in radiation exposure
- > Refurbishment of pump seals is readily performed on-site by site maintenance personnel
- > Excellent and responsive on-site service support

CAN10 Pump Seal

The CAN10 pump seal is our newest pump seal design; its 8.75" seal diameter broadens the application of our product line to larger reactor recirculation pumps in boiling water reactors (BWR) and exceeds pressurized water reactor (PWR) operating parameters. These pump seals are a cost-effective upgrade for SU-type seal cartridges found in the original reactor coolant pumps in that they are designed to operate continuously for at least six years. Our CAN10 pump seals are a significantly more reliable and durable alternative to others offered in the market.

CAN8 Pump Seal

We provide CAN8 pump seals for reactor re-circulation pumps in BWR and CANDU® plants as a cost-effective upgrade for SU-type seal cartridges. The durability of the CAN8 pump seals allows them to operate maintenance free in excess of four years. Additionally, this pump seal operates with reduced or zero seal injection, in turn reducing the pump's susceptibility to shaft cracking.

The first CAN8 pump seals were installed in reactor recirculation pumps at Entergy Grand Gulf (BWR) in early 1992. Our CAN8 pump seals are now installed in a number of CANDU stations, including all eight units at Bruce Power, Ontario Power Generation's (OPG) four Darlington units, two units in the United States (US), two stations in Japan and one station in Switzerland.

CAN2A Pump Seal

The CAN2A pump seal is designed for reactor recirculation pumps in BWRs. These seals are installed in BWR stations in New York, New Jersey and Iowa. One of the CAN2A's design advantages is its leakage cut-off during hot standby conditions to protect against excessive heat in the seal. This allows it to function reliably during a station blackout with loss of forced cooling.



Operations and Maintenance

Pump Seals with Unmatched Service Life

Our specialty pump seals for reactor recirculating pumps provide unmatched service life in commercial nuclear power plants. Decades of research and development has allowed us to produce precision-engineered, application-specific pump seals using specialty materials and unique high-temperature-resistant elastomers to significantly exceed original seal manufacturers' performance specifications.

We employ a rigorous program of material selection, manufacturing and testing to ensure that pump seals exceed exacting standards and performance criteria. Our pump seals operate reliably for numerous fuel cycles, resulting in reduced maintenance costs as well as reduced radiation exposure to maintenance personnel.