

Serving CANDU Reactors Worldwide

Thorburn Flex Inc

Flexible Piping Specialist

Since its conception over 50 years ago, Thorburn has become a world leader in the design and manufacture of custom engineered precision bellows, metallic and non-metallic expansion joints. Operating under a strategy of global presence in the Power Generating & CANDU Nuclear Industries, Thorburn is structured to consistently meet and exceed customers expectations in quality, value and service.

NGS Installations:

- OPG Pickering (8 Units)
- OPG Darlington (4 Units)
- OPG/BP Bruce (8 Units)
- HQ Gentilly (1 Unit)
- NB Power Point Lepreau (1 Unit)
- Cernavoda Romania (2 Units)
- Quinshan China (2 Units)
- Wolsong South Korea (4 Units)
- Embalse Argentina (1 Unit)

Designers and OEM's:

- AECL
- GE Canada
- SNC-Nuclear
- CANDU Energy
- AREVA

Products:

- Annulus seal bellows for calandria fuel channel
- Bellows for snout indexing mechanism & loop liner tube
- F/M head separator & linear potentiometer assemblies
- Reactivity mechanism expansion joints
- Main steam penetration & dousing expansion joints
- Containment passage expansion joints
- Pressure balanced crossover expansion joints
- Metallic & rubber expansion joints for RSW, CWC and CWS

Quality Assurance:

- CSA N285.0, B51, CAN3 Z299.3
- ASME B31.1, B31.3, NCA4000 NQA-1
- ASME U Stamp
- ASME NPT Stamp (In Progress)
- ISO 9001:2008

CRN for all Canadian Provinces



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Multi-Ply Bellows
made with Inconel SB443
alloy 625LCF

Annulus seal bellows for calandria fuel channel



Fueling machine head
separator assemblies



Bellows for snout indexing
mechanism



Miniature bellows for fuel rod flask
limit switch & rod cup seal



Loop liner tube bellows
assemblies



Pressure balanced crossover
expansion joints



Containment passage rectangular
expansion joints



Main steam penetration gimbal
expansion joints



In-line pressure balanced rubber
expansion joints