



B.C. INSTRUMENTS

A DIVISION OF B.C. PRECISION INC.

41 Proctor Road, Schomberg ON L0G 1T0 CANADA
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PROFILE

NATURE OF BUSINESS

B.C. Instruments (BCI) is a Precision Machine Shop, manufacturing and supplying quality components and assemblies to the Nuclear Energy, Aerospace, Defence, Medical, Electronic and Other related industries.



Major Products & Services (Nuclear Energy)

Nuclear Class 1 Adaptors and Thermowells, Feeder Coupling Cap Screws, Seal Rings, Hubs & Flanges, Fuel Channel Bearing Sleeves and Journal Rings, Shielding Sleeves Calandria Tube Sleeve Inserts, Shield Plugs, Thimbles, Guide Tube Extensions, Cobalt Adaptors and Yoke Positioning Assembles, Fuelling Machine Sub-assemblies, & other related Components for CANDU systems.

Quality Standards

- ASME Section III
- CSA-N285.0 (TSSA Cert.)
- CSA Z299.2 (CANPAC Approved)
- ISO9001 : 2000 (registered)
- AS 9100B

Non Destructive Testing:

In-House MPI/LPI
In-House (AMF): Passivation

Power Industry Experience

Since 1971, B.C. Instruments have manufactured and supplied Parts, Components and Sub-assemblies for the following CANDU Generating Station Projects.

- Pickering Generating Station, Ontario, Canada
- Bruce Generating Station, Ontario, Canada
- Darlington Generating Station, Ontario, Canada
- Point Lepreau Generating Station, NB, Canada
- Gentilly Generating Station, Quebec, Canada
- Wolsong Projects, South Korea
- Cernavoda Projects, Romania
- Embalse projects, Argentina
- Qinshan Projects, China

Company Data

BCI has over 35 years' experience as a quality subcontract supplier. The company is a leader in advanced technology with four facilities comprising of 58,000 sq. ft.

Executive Contact

Mr. Harshad Patel, P.Eng.

Director

B.C. Instruments

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B.C. INSTRUMENTS HAS SUCCESSFULLY SUPPLIED THE FOLLOWING COMPONENTS AND ASSEMBLIES FOR CANDU REACTORS OVER THE PAST 35 YEARS

1. Reactivity Control Unit - Thimbles, Guide Tube Extensions & Associated Parts (AECL Ref. 31700-005)
2. Fuel Channel End Fitting - Bearing Sleeves & Journal Rings (AECL Ref. 31150-005)
3. Fuel Channel End Fitting - Shielding Sleeve East and West and Stop Attachment Collars (AECL Ref. 31120-002)
4. Fuel Channel End Fitting - Inboard and Outboard Journal Rings (AECL Ref. 31150-001)
5. Fittings - Nuclear Class 1 & Class 3 Buttweld Adaptors (AECL Ref. 60620-005)
6. Nuclear Class 1 & 3 Thermowells (AECL Ref. 60441-01, TS XX-60442-16)
7. Calandria Tube Sleeve Inserts, Nuclear Class 1 (AECL Ref. 31230-002)
8. Feeder Thermowells and Guide Tube Assemblies (AECL Ref. 60444 -001, 60441-001, 63102-29)
9. Fuel Channel - Shield Plug Assembly (AECL Ref. 31130-001)
10. Feeder Connection - Cap screws & Bolts (AECL Ref. 31170-004)
11. Feeder Connection - Flanges (AECL Ref. 31170-006)
12. Feeder Connection - Hubs (AECL Ref. 31170-003)
13. Feeder Connection - Seal Rings (AECL Ref. 31170-010)
14. Feeder Connection – Forged Flanged Elbow (AECL Ref. 10820 - 31170-002) – ACR 1000
15. Upper Feeder Rigid Spring, Hangers and Spacers (AECL Ref: 33126-009)
16. Seal Assembly for F/M Snout Plug Assembly (Ref: 35315-001)
17. Fuelling Machine Head Magazine Ass'y Coolant Connector (Ref: 35213-001)
18. Nuclear Class 1 Liquid Level Gauges (AECL Ref. 60413 -02)
19. Tube Plugs, Tube sheet Plugs & Stabilizers for Steam Generators
20. Tool Plug , Fuel Channel Closure for Manual Removal & Install (GIF Tool) (Ref: 31140 -001)
21. Reactivity Control - Upper Shield Plug Assembly (AECL Ref: 31783-19)
22. Threaded connectors & couplers for reinforcing concrete (AECL Ref. 20542-08)
23. Snout Safety Lock (AECL Ref. 35311-001)
24. Cobalt Adaptor Assemblies (AECL Ref. 31783-02)
25. Yoke Positioning Assemblies (AECL Ref. 31124-03)
26. F/M Head Separator Safety Latch Assembly (OPG Ref. 35300-01 & 35312-02)
27. Shutdown System "E" Fission Chamber Units Shutter Assy. (AECL Ref. 31780-0023)
28. Welding System Wire Feeder Assembly (AECL Ref. 30155-02)
29. Housing Seal Pressure Boundary (Ref: 0000212053 1)
30. Plunger, Pump (Ref: 0000176958 1)
31. Tube, Magnetic Shield (Ref: 0000210013 3)
32. Filter, Sampling NC3 (0000189385 1)
33. Separator Assy Side Stop (Ref: 0000211617 3)
34. Gear, Spur, Fuel Machine (Ref: 0000212589 3)
35. Shaft , Tape Drive (Ref: 0000211885 3)
36. Hypodermic Sample Station (Ref: 0000216906 1)
37. Capsule, Flange (Ref: 31743 – 103)
38. Cable Rewind Mechanism (OPG Ref. 35200-0830)
39. Heat Transport System Coolant Sample Holder (AECL Ref. 63103-2)
40. Components for Fuelling Machine Head (AECL Ref. 35214)
41. Components for SLAR Production Tool
42. Welding Torch Assemblies, Cutting, Cleaning & Skimming Tools
43. Pressure Breakdown Orifices
44. Latches for Grapple Assembly
45. Parts for Replication System and Replication Tool



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Major Products & Services
(Nuclear Energy)
Supplying to CANDU Reactors since 1971

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Fuel Channel
Shield Plug
Assembly

Quality Standards

ASME Section III



CSA-N285.0
(TSSA Cert.)



CSA Z299.2
(CANPAC Approved)



ISO 9001 : 2008



AS 9100B

Fittings
Adaptor & Thermowells

Feeder Connection Forged
Flange Elbow and Cap Screw (ACR-1000)

Feeder Connection
Flange, Hub, Seal Ring & Bolts

Fuel Channel - End Fitting
Sleeves, Journal Rings
and Calandria Tube Insert

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