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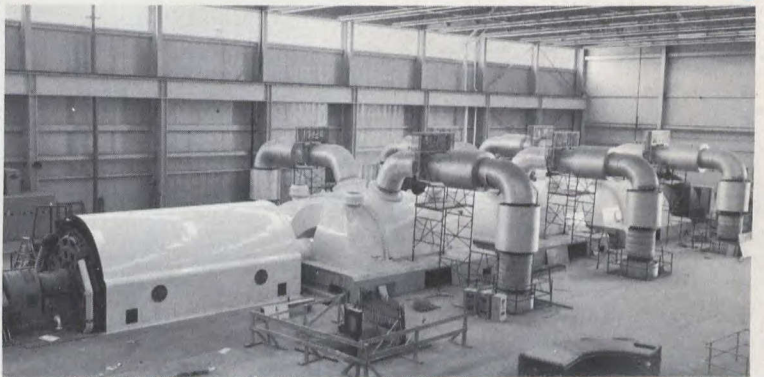
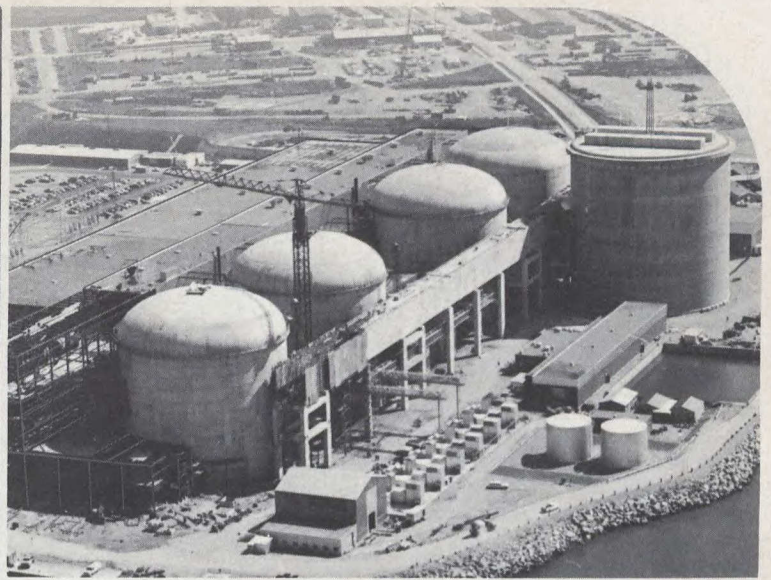
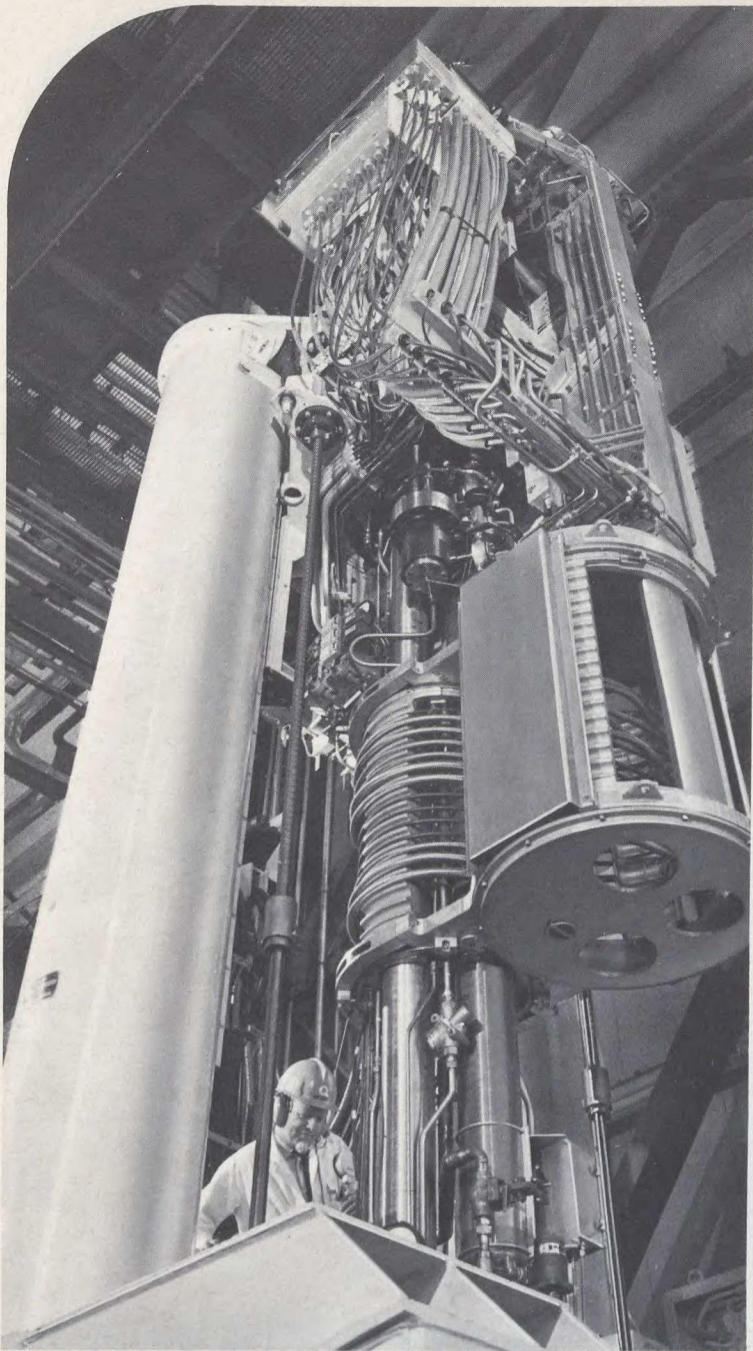
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# DIRECTORY OF THE CANADIAN NUCLEAR INDUSTRY







# THE NUCLEAR INDUSTRY IN CANADA

*Canada*

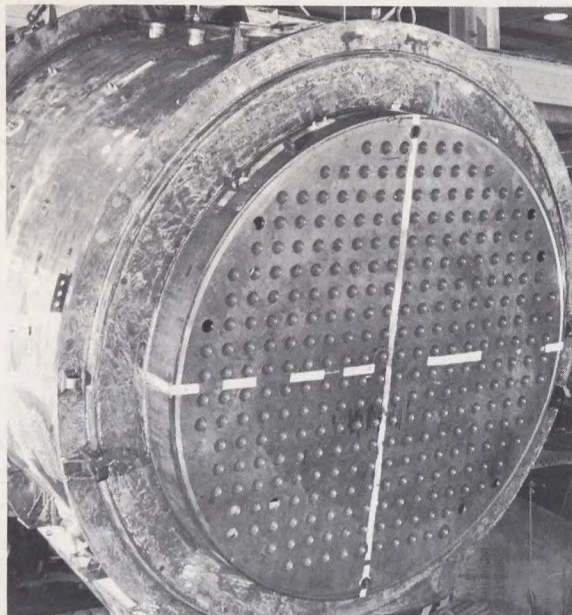


*Mechanical Equipment Division*

PUBLISHED BY THE DEPARTMENT OF INDUSTRY, TRADE AND COMMERCE, OTTAWA, CANADA

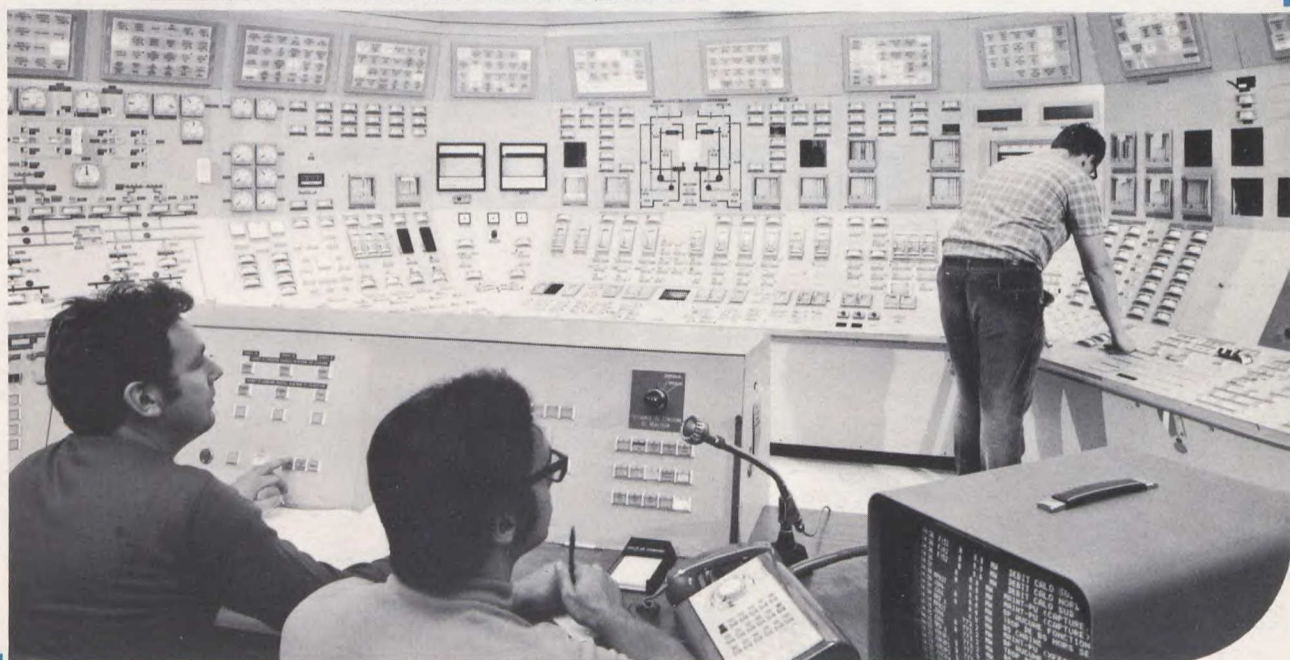
PUBLIÉ PAR LE MINISTÈRE DE L'INDUSTRIE ET DU COMMERCE, OTTAWA, CANADA





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# NUCLEAR CANADA

Canada is one of the leading nations in the development of peaceful uses for atomic energy. The Canadian-designed heavy water moderated, natural uranium fuelled, CANDU reactor is a highly competitive system that is being evaluated by many of the world's utilities. Concurrently, Canada has become a world leader in non-power use of atomic energy, especially in applications using radioactive isotopes.

Canada is expanding its power generation capability with the construction of CANDU nuclear reactor power stations in Ontario and Quebec. Ontario Hydro is building a 2,000 MW station in Pickering which is now in an advanced stage of construction, and a 3,000 MW station at Bruce which is scheduled to begin producing power in 1976. Atomic Energy of Canada Limited, with the co-operation of Hydro Quebec, has built a 250 MW boiling light water version of the CANDU reactor at Gentilly. Outside Canada, Canadian reactors are being built in India, Pakistan, and Taiwan.

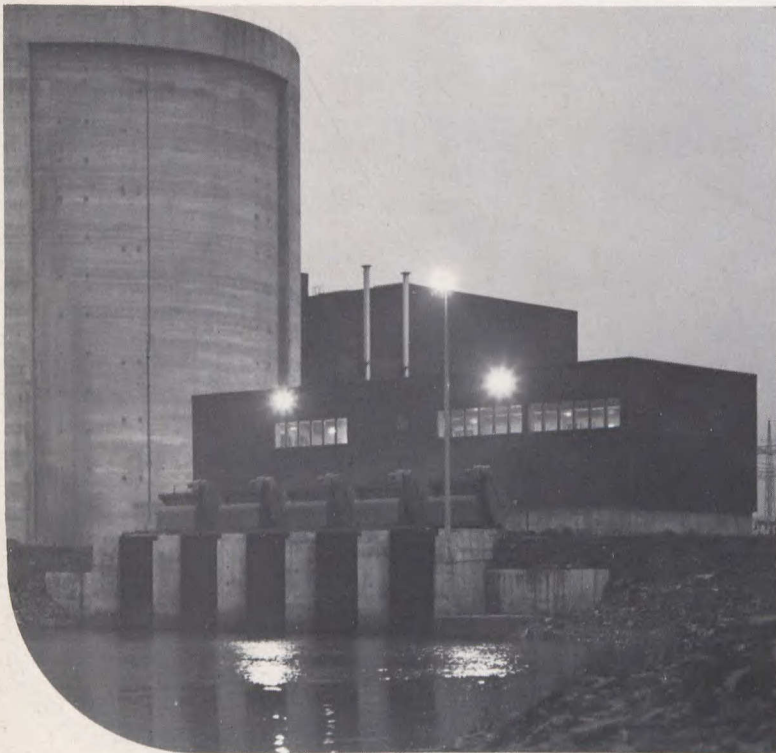
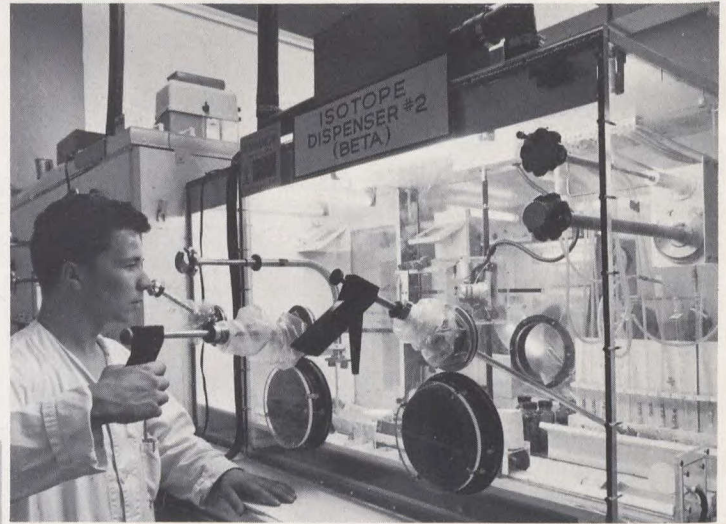
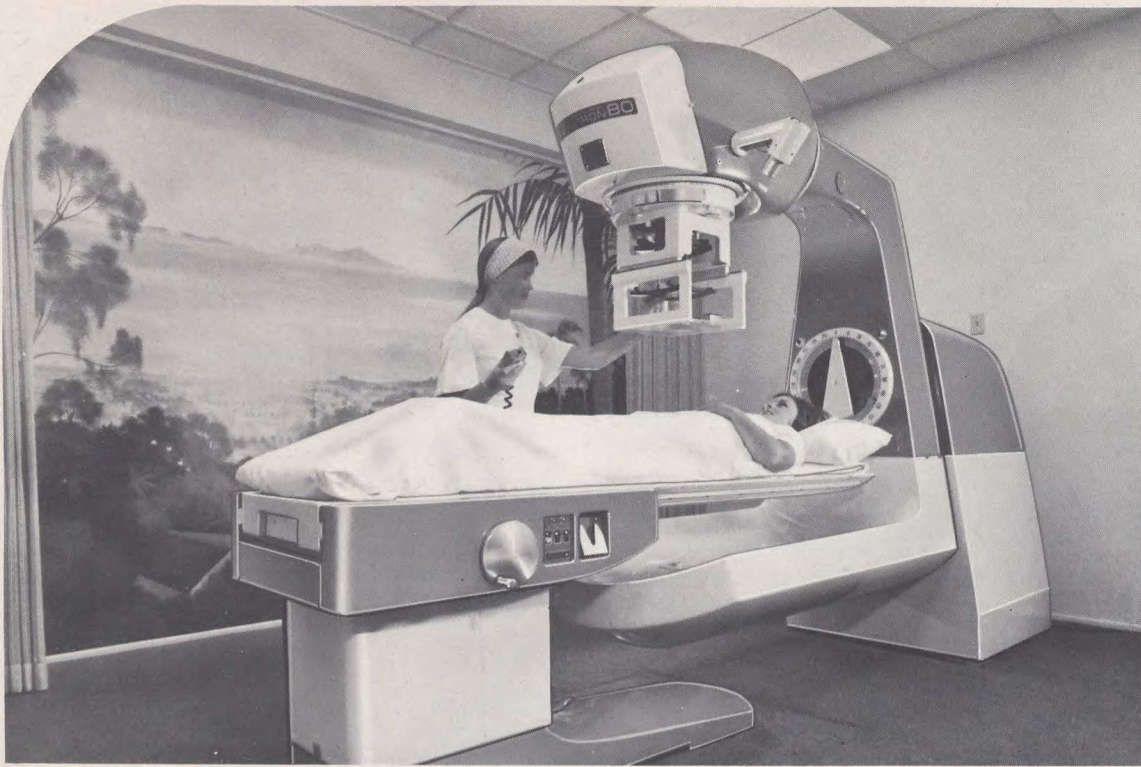
Canadian scientists, engineers, designers and equipment manufacturers have developed a highly advanced nuclear capability in order to meet this massive commitment to nuclear power generation. Canadian equipment manufacturers, in conforming to the stringent nuclear performance specifications, have developed standards of excellence that are comparable to those in any other country. Equipment, instrumentation, nuclear fuels, materials and consulting services are readily available to others wishing to take advantage of Canadian experience and technology.

For further information:

Mechanical Equipment Division  
Machinery Branch  
Department of Industry, Trade and Commerce  
112 Kent Street  
Ottawa 4, Ontario, Canada

**Some of the companies included in this directory may not be prepared to enter the export market in certain geographic areas because of rationalization of total company manufacturing operations; limitations resulting from licensing agreements; availability of financing; and specialization in specific market areas. The Trade Commissioner Service in your area will assist you in identifying interested companies.**





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# EQUIPMENT, MATERIALS AND SERVICES

# EQUIPMENT, MATERIALS AND SERVICES

## AIRLOCKS AND DOORS

Canada Machinery Corporation Ltd.  
Chubb-Mosler & Taylor Safes Ltd.  
Dominion Bridge Company Limited  
Industrial Products Division  
Federated Metals Canada Limited  
John T. Hepburn Limited  
Horton Steel Works, Limited

## ALARM SYSTEMS

Advanced Transducer Systems Limited  
Orenda Limited

## AMPLIFIERS, LINEAR, CUSTOM AND PREAMPLIFIERS

Conuclear Ltd.  
Simtec Industries Ltd.

## ANALYZERS, SINGLE AND MULTI-CHANNEL

Conuclear Ltd.  
Simtec Industries Ltd.

## BELLOWS ASSEMBLIES

Calumet & Hecla (Canadian) Limited  
Flexonics Division  
Canron Limited  
Mechanical Division

## CABINETS, PANELS, AND CONSOLES — INSTRUMENT

Advanced Transducer Systems Limited  
Bailey Meter Company Limited  
Custom Control Panels Ltd.  
Fischer & Porter (Canada) Limited  
Montel Inc.  
R. H. Nichols Co. Limited  
Orenda Limited

## CALANDRIAS, REACTOR

Canadian Vickers Limited  
Dominion Bridge Company Limited  
Industrial Products Division  
Dominion Welding Engineering Company Ltd.  
Marine Industries Limited

## CALANDRIA STRUCTURES — Including end and thermal shields and support assemblies

Canadian Vickers Limited  
Dominion Bridge Company Limited  
Industrial Products Division  
Dominion Welding Engineering Company Ltd.  
General Gear Company  
Division of Donlee Manufacturing  
Industries Limited

## CASTINGS, NUCLEAR QUALITY

Babcock & Wilcox Canada Ltd.  
Esco Limited  
Hawker Siddeley Canada Ltd.  
Canadian Steel Foundries Division  
Welmet Industries Ltd.

## CHAMBERS, IONIZATION

Canadian Admiral Corporation Limited

## CHANNEL COMPONENTS — Including plugs, end fittings, mechanisms and coolant tubes

Bata Engineering  
Division of Bata Shoe Co. of Canada Ltd.  
Bristol Aerospace (1968) Limited  
Canada Machinery Corporation Ltd.  
Canadian General Electric Company Limited  
Nuclear Power Project  
Canadian Westinghouse Company Limited  
Atomic Power Division  
Dowty Equipment of Canada Limited  
General Gear Company  
Division of Donlee Manufacturing  
Industries Limited  
General Metallics Parts Limited  
Heroux Limited  
Standard Modern Tool Company Limited  
Strite Industries Limited  
Vicom Limited

## COBALT 60 SOURCES

Atomic Energy of Canada Limited  
Commercial Products

## COMPUTERS, ANALOG AND DIGITAL

Conuclear Ltd.  
The Foxboro Company Limited  
International Business Machines Company Ltd.

CONDENSERS

Canada Machinery Corporation Ltd.  
 Canadian Ingersoll-Rand Co. Limited  
 Canadian Vickers Limited  
 Dominion Welding Engineering Company Ltd.  
 Foster Wheeler Limited  
 The Arthur S. Leitch Company Limited  
 MLW Industries

CONSULTANTS, refer company listing for  
 specific services offered

Atomic Energy of Canada Limited  
 Commercial Products  
 Atomic Energy of Canada Limited  
 Nuclear Power Marketing  
 Canatom Ltd.  
 Nuclear Power Consultants  
 Catalytic Enterprises Limited  
 DCF Systems Limited  
 Dilworth, Secord, Meagher and  
 Associates Limited  
 The Electrolyser Corporation Ltd.  
 Humphreys & Glasgow (Canada) Ltd.  
 Lalonde, Girouard, Letendre & Associates  
 LaSalle Hydraulic Laboratory Ltd.  
 The Lummus Company Canada Limited  
 Sulzer Bros. (Canada) Ltd.  
 W. L. Wardrop & Associates Ltd.

CONTAINER DESIGN, for waste fuel shipping

Dilworth, Secord, Meagher and  
 Associates Limited

CONTAINERS, ISOTOPE

Federated Metals Canada Limited

CONTAINERS, SPENT FUEL TRANSFER

Canadian Vickers Limited

CONTROL DEVICES, REACTIVITY

Canadian General Electric Company Limited  
 Nuclear Energy Project  
 Canadian Westinghouse Company Limited  
 Atomic Power Division

CONTROL ROD DRIVES

Advanced Transducer Systems Limited  
 Bata Engineering  
 Division of Bata Shoe Co. of Canada Ltd.  
 General Gear Company  
 Division of Donlee Manufacturing  
 Industries Limited  
 Marsland Engineering Limited  
 Orenda Limited  
 Standard Modern Tool Company Limited

CONTROL RODS, REACTOR

Bristol Aerospace (1968) Limited  
 Canadian Westinghouse Company Limited  
 Atomic Power Division

COOLERS, for applications such as pump motors, standby  
 and calandria vault

MLW Industries  
 Stemac Limited  
 Unifin Division  
 Keeprite Products Limited

CORES, REACTOR, for light water reactors

Canadian Westinghouse Company Limited  
 Atomic Power Division

COUNTERS, LIQUID

Philips Electron Devices  
 A Division of Philips Electronic  
 Industries Ltd.

CREEP MACHINES, IN OR OUT REACTOR

Advanced Transducer Systems Limited  
 Orenda Limited

COUNTERS, RADIATION

Conuclear Ltd.  
 Nuclear Radiation Development  
 Division of Electronic Associates of  
 Canada Ltd.  
 Picker Nuclear-Canada  
 Division Picker X-Ray Engineering Limited



DATA LOGGING AND EVENT SEQUENCE RECORDING  
EQUIPMENT AND SYSTEMS

Central Dynamics Ltd.

DETECTORS, RADIATION

Canadian Admiral Corporation Limited  
Philips Electron Devices  
A Division of Philips Electronic  
Industries Ltd.  
Reuter-Stokes Canada Limited  
Simtec Industries Ltd.

DISCRIMINATORS

Conuclear Ltd.  
Simtec Industries Ltd.

DOORS, RADIATION SHIELDING

See Airlocks and Doors

DRYERS, AIR

Pall (Canada) Limited

ENGINEERS AND CONSTRUCTORS

Catalytic Enterprises Limited  
Humphreys & Glasgow (Canada) Ltd.  
The Lummus Company Canada Limited

ENGINEERING DESIGN AND DEVELOPMENT SERVICES  
AVAILABLE FROM MANUFACTURERS — NUCLEAR  
(not classed as consultants)

Bristol Aerospace (1968) Limited  
Canadian General Electric Company Limited  
Nuclear Energy Project  
Canadian Vickers Limited  
Canadian Westinghouse Company Limited  
Atomic Power Division  
Orenda Limited  
Standard Modern Tool Company Limited

FILTERS

American Air Filter of Canada Ltd.  
Pall (Canada) Limited

FLASKS, FUEL TRANSFER

Dominion Bridge Company Limited  
Dominion Welding Engineering Company Ltd.

FORGINGS

Canada Forgings Limited  
Colt Industries (Canada) Ltd.  
Crucible Steel Division  
Taylor Forge Canada Ltd.  
Gulf & Western Industrial Products  
Company

FUEL CHANNEL COMPONENTS

See Channel Components

FUELLING MACHINE MECHANISM

Canadian General Electric Company Limited  
Nuclear Energy Project  
Standard Modern Tool Company Limited

FUELLING MACHINE STRUCTURES — Including bridges,  
carriages and guide columns

Canadian Vickers Limited  
Dominion Bridge Company Limited  
Industrial Products Division  
John T. Hepburn Limited  
Standard Modern Tool Company Limited

FUEL MATERIALS

See Uranium

FUEL, NATURAL AND ENRICHED URANIUM OXIDE  
AND URANIUM ALLOY

Canadian General Electric Company Limited  
Nuclear Energy Project  
Canadian Westinghouse Company Limited  
Atomic Power Division

FUEL TRANSFER EQUIPMENT

Advanced Transducer Systems Limited  
Barker Thorne  
Division of Master Mechanical  
Manufacturing Ltd.

Canadian General Electric Company Limited  
Nuclear Energy Project  
Canadian Vickers Limited  
College Tool & Die Limited  
Dominion Bridge Company Limited  
Industrial Products Division  
Dominion Welding Engineering Company Ltd.  
Fabricated Metals and Engineering (Oshawa)  
Limited  
General Metallics Parts Limited  
Heroux Limited  
Richards-Wilcox of Canada Limited  
Standard Modern Tool Company Limited  
Upper Canada Manufacturing Ltd.

GAS, MISCELLANEOUS

Canadian Liquid Air Ltd.  
Liquid Carbonic Canadian Corporation Limited

GENERATORS, DEUTERIUM GAS

The Electrolyser Corporation Ltd.

GENERATORS, HYDROGEN/OXYGEN

The Electrolyser Corporation Ltd.

GENERATORS, NEUTRON

Picker Nuclear — Canada  
Division Picker X-Ray Engineering Limited

GENERATORS, SIGNAL, PULSE

George Kelk Limited

HEAT EXCHANGERS

S. A. Armstrong Limited  
Babcock & Wilcox Canada Ltd.  
Canadian Vickers Limited  
Combustion Engineering-Superheater Ltd.  
Dominion Welding Engineering Company Ltd.  
Foster Wheeler Limited  
Fromson Heat Transfer Ltd.  
The Arthur S. Leitch Company Limited  
MLW Industries  
Marine Industries Limited  
Muirhead Engineering Limited  
Stemac Limited  
The Toronto Iron Works Limited  
Plate Fabrication Division

HEAVY WATER

Canadian General Electric Company Limited  
Nuclear Power Project

HEAVY WATER PLANT, ENGINEER-CONSTRUCTORS

Humphreys & Glasgow (Canada) Ltd.  
The Lummus Company Canada Limited

HEAVY WATER UPGRADING AND/OR  
CONCENTRATION SERVICES

The Electrolyser Corporation Ltd.  
Humphreys & Glasgow (Canada) Ltd.  
The Lummus Company Canada Limited  
Sulzer Bros. (Canada) Ltd.

HIGH PRESSURE PIPE FABRICATION — Including headers

Babcock & Wilcox Canada Ltd.  
Combustion Engineering-Superheater Ltd.  
Dominion Welding Engineering Company Ltd.  
Stanton Pipes Limited  
Pipework Engineering Division

INSTRUMENTATION AND CONTROL EQUIPMENT —  
NUCLEAR, GENERAL, not elsewhere specified

Advanced Transducer Systems Limited  
Bailey Meter Company Limited  
Champlain Power Products Limited  
Conuclear Ltd.  
Fischer & Porter (Canada) Limited  
The Foxboro Company Limited  
Masoneilan  
Division of Worthington (Canada) Ltd.  
Orenda Limited  
Reuter-Stokes Canada Limited  
Sigma Instruments (Canada) Limited  
Simtec Industries Ltd.  
Sperry Gyroscope  
Ottawa Division

ION EXCHANGE MATERIALS

J. W. Anderson Company Limited

ION EXCHANGE UNITS

J. W. Anderson Company Limited  
Degremont Canada Ltée  
Dominion Welding Engineering Company Ltd.



IRRADIATION EQUIPMENT AND SERVICES

Atomic Energy of Canada Limited  
Commercial Products

ISOTOPES, RADIOACTIVE

Atomic Energy of Canada Limited  
Commercial Products

LABORATORY SERVICES

Bristol Aerospace (1968) Limited  
Canadian General Electric Company Limited  
Nuclear Energy Project  
LaSalle Hydraulic Laboratory Ltd.  
Orenda Limited

LEAK DETECTION TAPES, for heavy water loss prevention

Champlain Power Products Limited

LOOPS, TEST, OUT-OF-PILE — Including instrumentation systems

Advanced Transducer Systems Limited  
Canadian Westinghouse Company Limited  
Atomic Power Division  
Orenda Limited

MACHINING (SUBCONTRACT) — to nuclear quality control standards

Barker Thorne  
Division of Master Mechanical  
Manufacturing Ltd.  
Bata Engineering  
Division of Bata Shoe Co. of Canada Ltd.  
Bristol Aerospace (1968) Limited  
Canada Machinery Corporation Ltd.  
Canadian Curtiss-Wright Limited  
Canadian General Electric Company Limited  
Nuclear Energy Project  
Canadian Vickers Limited  
College Tool & Die Limited  
Dowty Equipment of Canada Limited  
Fabricated Metals and Engineering (Oshawa)  
Limited  
General Gear Company  
Division of Donlee Manufacturing  
Industries Limited  
General Metallics Parts Limited  
Heroux Limited  
James Howden and Parsons of Canada Limited

Magna Electronics Corporation Limited  
Standard Modern Tool Company Limited  
Strite Industries Limited  
Upper Canada Manufacturing Ltd.  
Vicom Limited  
Williams Machines Limited

MEDICAL INSTRUMENTATION, NUCLEAR

Conuclear Ltd.  
Picker Nuclear — Canada  
Division Picker X-Ray Engineering Limited

MONITORING DEVICES, RADIATION

Canadian General Electric Company Limited  
Nuclear Energy Project  
Conuclear Ltd.  
Marsland Engineering Limited  
Simtec Industries Ltd.

MULTIPLIERS, CHANNEL ELECTRON

Philips Electron Devices  
A Division of Philips Electronic  
Industries Ltd.

NEUTRON ACTIVATION ANALYSIS

Atomic Energy of Canada Limited  
Commercial Products

NEUTRON-FLUX MAPPING SYSTEMS

Reuter-Stokes Canada Limited

NON-DESTRUCTIVE TESTING SERVICES

Bristol Aerospace (1968) Limited  
Canadian General Electric Company Limited  
Nuclear Energy Project  
Canadian Vickers Limited  
Orenda Limited  
Racey, MacCallum & Bluteau Ltd.

NUCLEAR STEAM SUPPLY SYSTEMS CONSULTANTS

Atomic Energy of Canada Limited  
Nuclear Power Marketing

PANELS, INSTRUMENT

See Cabinets, Panels and Consoles —  
Instrument

PIPE FABRICATION, HIGH PRESSURE

See High Pressure Pipe Fabrication,  
Including Headers

POWER PLANTS, NUCLEAR — CONSULTANTS

Atomic Energy of Canada Limited  
Nuclear Power Marketing  
Canatom Ltd.

PRESSURE VESSELS

See Vessels, Pressure

PROBES, RADIATION

Conuclear Ltd.  
Marsland Engineering Limited

PUMPS, BOILER FEED

Bingham Pump Company Ltd.  
Byron Jackson Division  
Borg Warner (Canada) Ltd.  
Canadian Ingersoll-Rand Co. Limited

PUMPS, COOLING WATER CIRCULATING

Babcock & Wilcox Canada Ltd.  
Bingham Pump Company Ltd.  
Byron Jackson Division  
Borg Warner (Canada) Ltd.  
Canadian Ingersoll-Rand Co. Limited  
Worthington (Canada) Limited

PUMPS, FEED BLEED

Bingham Pump Company Ltd.  
Byron Jackson Division  
Borg Warner (Canada) Limited  
Hayward Gordon Ltd.

PUMPS, FUELLING MACHINE PRESSURIZING

Bingham Pump Company Ltd.  
Byron Jackson Division  
Borg Warner (Canada) Limited  
Canadian Ingersoll-Rand Co. Limited

PUMPS, MODERATOR CIRCULATING

Babcock & Wilcox Canada Ltd.  
Bingham Pump Company Ltd.  
Byron Jackson Division  
Borg Warner (Canada) Limited

PUMPS, PRIMARY COOLING

Bingham Pump Company Ltd.  
Byron Jackson Division  
Borg Warner (Canada) Limited

PUMPS, STANDBY COOLING

Babcock & Wilcox Canada Ltd.  
Bingham Pump Company Ltd.  
Byron Jackson Division  
Borg Warner (Canada) Limited

PUMPS, SUPERHEATED STEAM

Orenda Limited

RADIOACTIVE SOURCES

Atomic Energy of Canada Limited  
Commercial Products

RADIOACTIVE TREATMENT EQUIPMENT

J. W. Anderson Company Limited

RATEMETER, LINEAR

Simtec Industries Ltd.

REACTOR MONITORING SYSTEMS

Canadian General Electric Company Limited  
Nuclear Energy Project

SAMPLERS, AIR

Conuclear Ltd.

SEALS, FLUID SYSTEM

Champlain Power Products Limited  
Strite Industries Limited



SENSORS, NEUTRON — REACTOR CONTROL

Reuter-Stokes Canada Limited

SHIELDING MATERIALS

The Canada Metal Company Limited  
Eldorado Nuclear Limited  
Federated Metals Canada Limited

SPECTROMETER SYSTEMS

Picker Nuclear — Canada  
Division Picker X-Ray Engineering Limited  
Simtec Industries Ltd.

STEAM GENERATORS, PRIMARY SYSTEM

Babcock & Wilcox Canada Ltd.  
MLW Industries

STERILIZATION IRRADIATORS

Atomic Energy of Canada Limited  
Commercial Products

TANKS

Canadian Vickers Limited  
Dominion Bridge Company Limited  
Industrial Products Division  
Dominion Welding Engineering Company Ltd.  
Horton Steel Works, Limited

TELE THERAPY EQUIPMENT

Atomic Energy of Canada Limited  
Commercial Products

TOWER, SEPARATION, for heavy water plants

Horton Steel Works, Limited

TRANSDUCERS

Advanced Transducer Systems Limited  
Reuter-Stokes Canada Limited

TRAYS, DISTILLATION, for heavy water plants

Union Carbide Canada Limited

TRAYS, FRACTIONATING, for heavy water plants

Muirhead Engineering Limited

TUBES, GEIGER AND NEUTRON COUNTER

Nuclear Radiation Developments  
Division of Electronic Associates of  
Canada Ltd.

TUBES, ION AND PHOTON

Philips Electron Devices  
A Division of Philips Electronic  
Industries Ltd.

TUBE, ZIRCALOY, CALANDRIA

Canadian Westinghouse Company Limited  
Atomic Power Division

TUBING, COPPER BASED

Calumet & Hecla (Canadian) Limited  
Wolverine Tube Division

TUBING, FINNED

Unifin Division  
Keeprite Products Limited

TURBINES, NUCLEAR — STEAM

James Howden and Parsons of Canada Limited

URANIUM DIOXIDE (UO<sub>2</sub>)

Eldorado Nuclear Limited

URANIUM HEXAFLUORIDE (UF<sub>6</sub>)

Denison Mines Limited  
Eldorado Nuclear Limited

URANIUM HEXAFLUORIDE PLANT CONSULTANTS

Catalytic Enterprises Limited

URANIUM REFINERY EXTRACTION AND  
METAL PLANT CONSULTANTS

Catalytic Enterprises Limited

URANIUM TRIOXIDE (UO<sub>3</sub>)

Eldorado Nuclear Limited

URANIUM — YELLOWCAKE (U<sub>3</sub>O<sub>8</sub>)

Denison Mines Limited  
Rio Algom Mines Limited  
Stanrock Uranium Mines Ltd.

VACUUM FURNACES, IRRADIATED MATERIALS

Advanced Transducer Systems Limited

VALVES, BUTTERFLY

Dominion Engineering Works Limited  
Keystone Valve (Canada) Ltd.

VALVES, CHECK

Dominion Engineering Works Limited  
Guelph Engineering Company  
Velan Engineering Ltd.  
Welmet Industries Ltd.

VALVES, CONTROL

Fisher Controls of Canada Ltd.  
Masoneilan  
Division of Worthington (Canada) Ltd.  
Singer Valve Company Ltd.  
Velan Engineering Ltd.

VALVES, GATE

Guelph Engineering Company  
Velan Engineering Ltd.  
Welmet Industries Ltd.

VALVES, GLOBE

Guelph Engineering Company  
Velan Engineering Ltd.  
Welmet Industries Ltd.

VALVES, SAFETY RELIEF

Canadian Vickers Limited  
Farris Industries Canada Ltd.  
Manning, Maxwell & Moore Division  
Dresser Industries Canada Ltd.  
Yarway Canada Ltd.

VESSELS, PRESSURE

Babcock & Wilcox Canada Ltd.  
Canadian Vickers Limited  
Dominion Bridge Company Limited  
Industrial Products Division  
Dominion Welding Engineering Company Ltd.  
Horton Steel Works, Limited  
Marine Industries Limited  
The Toronto Iron Works Limited  
Plate Fabrication Division

WATER TREATMENT SYSTEMS AND EQUIPMENT

J. W. Anderson Company Limited  
Degremont Canada Ltée  
Econodyne Limited  
Graver Water Conditioning Division

WELDING AND JOINING DEVELOPMENT

Bristol Aerospace (1968) Limited  
Canadian General Electric Company Limited  
Nuclear Energy Project  
Canadian Vickers Limited  
Orenda Limited

YTTRIUM OXIDE CONCENTRATES (Y<sub>2</sub>O<sub>3</sub>)

Denison Mines Limited

ZIRCONIUM METAL

Eldorado Nuclear Limited

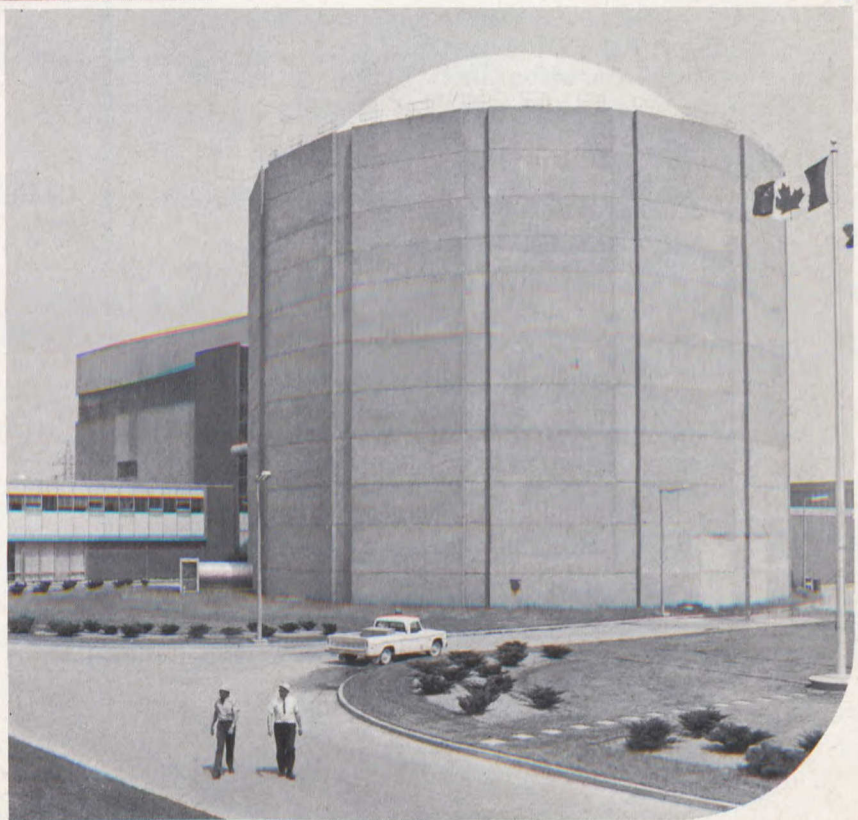
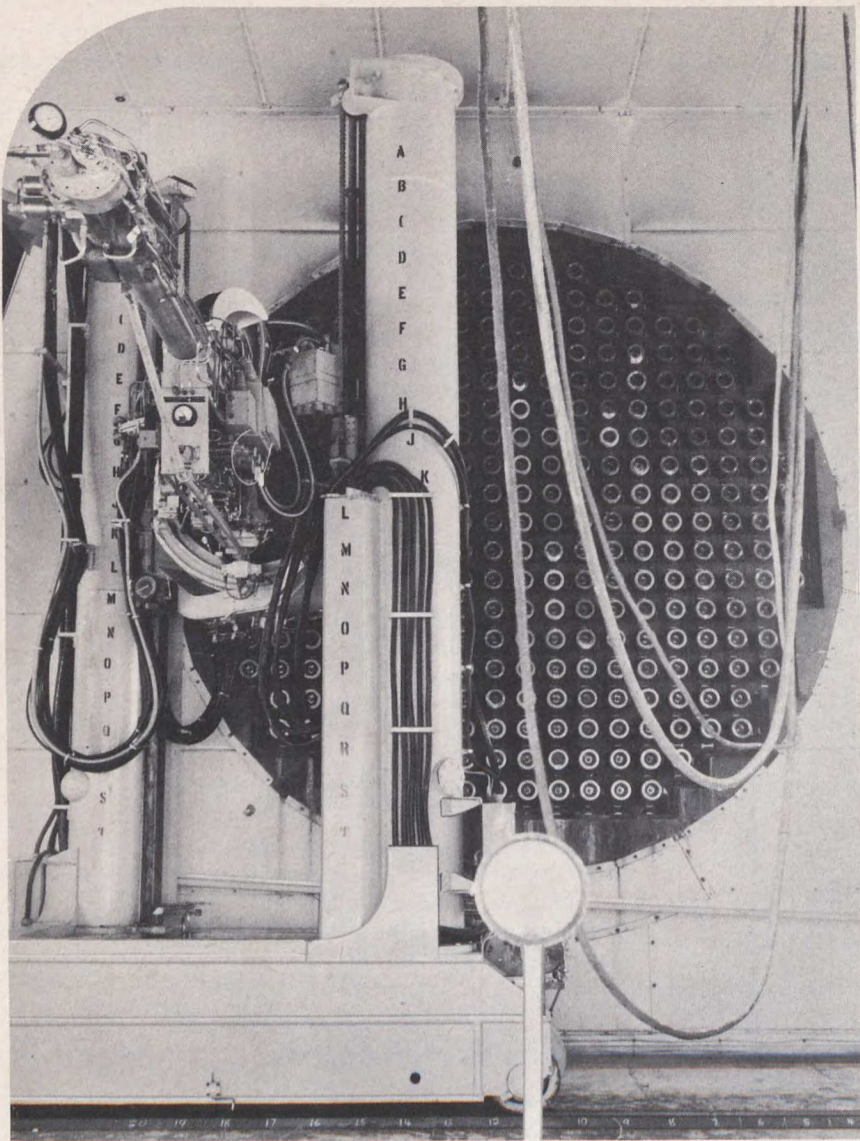
ZIRCONIUM PROCESSING PLANT CONSULTANTS

Catalytic Enterprises Limited

ZIRCONIUM PROCESSING

Bristol Aerospace (1968) Limited  
Canadian General Electric Company Limited  
Nuclear Energy Project





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# COMPANY LISTINGS

# COMPANY LISTINGS

ADVANCED TRANSDUCER SYSTEMS LIMITED  
P.O. Box 307, Station U,  
Toronto 18, Ontario, Canada

Annunciator system for visual fault indication  
Creep machines for secondary creep measurement for in or out reactor  
Flow elements, venturi and orifice, design, development, production and calibration to customer requirements  
Handling equipment for lead safety flasks and similar equipment  
Materials analysis equipment for in reactor evaluation  
Nuclear power station control booster and adjusted rod drive assemblies  
Out-of-pile test loops special purpose instrumentation systems  
Pneumatic transducers for micro-inch measurement  
Reactor control room instrumentation systems  
Vacuum furnaces for materials under irradiation

AMERICAN AIR FILTER OF CANADA LTD.  
400 Stinson Boulevard,  
Montreal 379, Quebec, Canada

Air filters — electronic, automatic, unit type, media type, particulate, carbon, dry type

J. W. ANDERSON COMPANY LIMITED  
44 Head Street, Dundas, Ontario, Canada

Design, engineering and start-up services for water treatment plants and ion exchange units  
Ion exchange units  
Resins, ion exchange  
Water treatment equipment for raw inlet water, steam generator feedwater, heavy and light water in cooling loops and fuel storage bays including radioactive waste removal

S. A. ARMSTRONG LIMITED  
1400 O'Connor Drive,  
Toronto 374, Ontario, Canada

Heat exchangers

ATOMIC ENERGY OF CANADA LIMITED  
COMMERCIAL PRODUCTS  
P.O. Box 93, Ottawa, Ontario, Canada

Cobalt 60 sources  
Consulting services, nuclear  
Gamma irradiation equipment  
Irradiation services  
Isotopes, radioactive  
Neutron activation analysis  
Radioactive sources  
Sterilization irradiators  
Teletherapy equipment

ATOMIC ENERGY OF CANADA LIMITED  
NUCLEAR POWER MARKETING  
275 Slater Street, Ottawa, Ontario, Canada

Designers and suppliers of nuclear steam supply systems

BABCOCK & WILCOX CANADA LTD.  
Coronation Boulevard, Galt, Ontario, Canada

Castings — nuclear quality, steel and grey iron  
Headers, main  
Heat exchangers  
Pumps — moderator circulating and standby cooling  
Steam generators  
Vessels, pressure

BAILEY METER COMPANY LIMITED  
205 Brunswick Boulevard,  
Pointe Claire, Quebec, Canada

Instrumentation, control equipment and systems for nuclear power plants

BARKER THORNE  
DIVISION OF MASTER MECHANICAL  
MANUFACTURING LTD.  
139 Wendell Avenue, Weston 491, Ontario, Canada

Fuel transfer and storage equipment  
Subcontract machining — to nuclear quality control standards

BATA ENGINEERING  
DIVISION OF BATA SHOE CO. OF CANADA LTD.  
Batawa, Ontario, Canada

Subcontract machining — to nuclear quality control standards, including channel closure plugs, and reactivity control drives



**BINGHAM PUMP COMPANY LTD.**

4129 Lozells Avenue,  
Burnaby 2, British Columbia, Canada

Pumps — primary cooling, fuelling  
machine pressurizing, standby cooling,  
moderator circulating, feed bleed and  
boiler feed

**BRISTOL AEROSPACE (1968) LIMITED**

P.O. Box 874, Winnipeg, Manitoba, Canada

Control rods, reactor  
Design, development and manufacture of  
fuel channels from zirconium alloys  
Design and development of high  
temperature (450° C) joints between  
zirconium alloys and steels, mechanical  
and diffusion bonded  
Design of experimental nuclear facilities  
Development of zirconium alloy  
processing equipment  
Development of zirconium alloy welding  
techniques  
Experimental reactor accessories  
Non-destructive testing  
Nuclear capabilities in zirconium,  
stainless steels, titanium, inconel, etc.  
Processing of cold worked zirconium  
alloy pressure tubes for heavy and light  
water reactors  
Reactor core components

**BYRON JACKSON DIVISION**

**BORG WARNER (CANADA) LIMITED**

P.O. Box 180, Station H,  
Toronto 13, Ontario, Canada

Pumps — primary heat transport, primary  
system pressurizing, moderator  
circulating, boiler feed, canned and  
miscellaneous small nuclear types

**CALUMET & HECLA (CANADIAN) LIMITED**

**FLEXONICS DIVISION**

134 Nelson Street West, Brampton, Ontario, Canada

Bellows assemblies including bellows  
seals for control valves

**CALUMET & HECLA (CANADIAN) LIMITED**

**WOLVERINE TUBE DIVISION**

P.O. Box 3115, London, Ontario, Canada

Tubing — copper based alloy, admiralty  
brass, cupro nickel and monel, for such  
applications as condensers and high and  
low pressure heaters

**CANADA FORGINGS LIMITED**

P.O. Box 308, Welland, Ontario, Canada

Forgings, carbon and stainless steel — to  
nuclear codes. Typical products include  
end fitting forgings

**CANADA MACHINERY CORPORATION LTD.**

19 Concession Street, Galt, Ontario, Canada

Airlocks  
Casings, outer, for low pressure turbine  
Condensers  
Ducts, vacuum  
Plugs, calandria  
Machining, subcontract — to nuclear  
quality control standards

**THE CANADA METAL COMPANY LIMITED**

721 Eastern Avenue, Toronto 252, Ontario, Canada

Lead — sheet, shot, wool, bricks and  
castings

**CANADIAN ADMIRAL CORPORATION LIMITED**

501 Lakeshore Road, Port Credit, Ontario, Canada

Chambers, ionization  
Detectors, radiation

**CANADIAN CURTISS-WRIGHT LIMITED**

500 Carlingview Drive, Rexdale, Ontario, Canada

Subcontract machining — to nuclear  
quality control standards

**CANADIAN GENERAL ELECTRIC COMPANY LIMITED**

**NUCLEAR ENERGY PROJECT**

107 Park Street North,  
Peterborough, Ontario, Canada

Channel components  
Control devices, reactivity  
Fuel handling systems for "on power"  
refuelling  
Fuel, nuclear — natural and enriched  
uranium oxide, natural and enriched  
alloy fuel  
Heavy water  
Joining, mechanical, of tubular  
components  
Monitoring devices, reactivity  
Processing, chemical, of zirconium  
components

Systems, fuel handling — for "on power" refuelling  
 Testing, laboratory and metallurgical  
 Testing, non-destructive  
 Zirconium components

**CANADIAN INGERSOLL-RAND CO. LIMITED**  
 P.O. Box 610, Station B,  
 Montreal 111, Quebec, Canada

Condensers  
 Pumps — nuclear safety, pressurizing,  
 boiler feed and cooling water circulating

**CANADIAN LIQUID AIR LTD.**  
 1210 Sherbrooke Street West,  
 Montreal 110, Quebec, Canada

Gas — high purity laboratory mixes,  
 helium, hydrogen, neon, krypton and  
 xenon

**CANADIAN VICKERS LIMITED**  
 5000 Notre Dame Street East,  
 Montreal 404, Quebec, Canada

Annulus shielding slabs  
 Calandrias  
 Carriages, fuelling machine  
 Condensers, bleed  
 Containers, spent fuel transfer  
 Engineering, nuclear application  
 End shield ring assemblies  
 Heat exchangers — high pressure, for  
 shutdown cooling and bleed cooling  
 Piping, transfer tube duct  
 Shielding blocks  
 Shields — end, radial and thermal  
 Systems, spent fuel transfer  
 Tank, shield  
 Testing, non-destructive  
 Tubes, fuel transfer  
 Valves — pressure relief, for reactor  
 buildings  
 Welding technique development  
 Vessels, pressure

**CANADIAN WESTINGHOUSE COMPANY LIMITED**  
**ATOMIC POWER DIVISION**  
 P.O. Box 510, Hamilton, Ontario, Canada

Channel components  
 Control rods, reactor — booster and  
 absorber  
 Cores, reactor — for light water reactors

Design and development services for  
 nuclear facilities and fuel cycling  
 Fuel fabricating equipment  
 Fuel, nuclear — uranium oxide, uranium  
 metal, uranium-aluminum alloy  
 Loop, test, out-of-pile  
 Plugs, seal and shield, for channels  
 Tube, channel — zircaloy

**CANATOM LTD.**  
**NUCLEAR POWER CONSULTANTS**  
 P.O. Box 3010, Station B, Montreal, Quebec, Canada

Consulting and management services for  
 nuclear energy applications, including  
 design engineering, technical supervision  
 of construction, commissioning services  
 and technical and economic feasibility  
 studies. Experience includes nuclear  
 power station projects, research reactors,  
 nuclear research facilities and test loops,  
 intense neutron generator facility and  
 sector focussed cyclotron facility

**CANRON LIMITED**  
**MECHANICAL DIVISION**  
 169 Eastern Avenue, Toronto 2, Ontario, Canada

Bellows assemblies (expansion joints)  
 fuel channel annulus seals

**CATALYTIC ENTERPRISES LIMITED**  
 P.O. Box 3008, Sarnia, Ontario, Canada

Engineer constructors. Construction,  
 engineering and procurement services  
 available for uranium refinery and metal  
 plants, zirconium processing, uranium  
 hexafluoride plant and nuclear test loops  
 Engineering studies for radioactive liquid  
 waste disposal

**CENTRAL DYNAMICS LTD.**  
 147 Hymus Boulevard, Pointe Claire 730,  
 Quebec, Canada

Systems, data logging and event sequence  
 recording, design, installation,  
 commissioning and staff training  
 Data logging equipment  
 Event sequence recording equipment

**CHAMPLAIN POWER PRODUCTS LIMITED**  
 951 Martin Grove Road, Rexdale, Ontario, Canada

Meter, fluid velocity  
 Meter, void fraction, for measuring

percentage of vapour in a liquid-vapour mixture. Primarily designed for BLW reactors  
 Seal packages, hydrostatic and elliptical  
 Seals, shaft, hydrostatic and elliptical for pumps and fuelling machines  
 Tape — leak detector, for light and heavy water leak detection

**CHUBB-MOSLER & TAYLOR SAFES LTD.**  
 Queen Street East, Brampton, Ontario, Canada

Doors, pressure containment  
 Doors, radiation shielding, watertight

**COLLEGE TOOL & DIE LIMITED**  
 1571 Keele Street, Toronto 9, Ontario, Canada

Subcontract machining — to nuclear quality control standards, including fuel transfer equipment

**COLT INDUSTRIES (CANADA) LTD.**  
**CRUCIBLE STEEL DIVISION**  
 9125 Cote de Liesse Road, Dorval, Quebec, Canada

Forgings — carbon, alloy, stainless, nickel and tool steel grades — to nuclear codes. Typical products include end fittings, pressure tubes, pump shafts, valve billets and rings

**COMBUSTION ENGINEERING-SUPERHEATER LTD.**  
 1140 de Maisonneuve Boulevard West, Montreal 110, Quebec, Canada

Headers, main  
 Heat exchangers

**CONUCLEAR LTD.**  
 551 Ferry Road, Winnipeg 21, Manitoba, Canada

Amplifier — biased, linear, adder — delay  
 Analyzer, time and single channel types  
 Converter  
 Counters, well — for isotope studies and bio assays  
 Digital systems  
 Discriminator, pulse shape  
 Gates — "or", linear  
 Medical application systems  
 Modules, nuclear instrument — for research and tracer studies  
 Monitors, health and safety

Probes  
 Radiation meters  
 Samplers, air  
 Scalers, medical  
 Time pick-off

**CUSTOM CONTROL PANELS LTD.**  
 1686 Mattawa Avenue, Mississauga, Ontario, Canada

Cabinets, process control  
 Panels, process control

**DCF SYSTEMS LIMITED**  
 74 Victoria Street, Toronto 210, Ontario, Canada

Consultants. Consulting services offered include — mathematical analysis and simulation of nuclear reactors, stability analysis, design and programming of software systems for reactor and fuelling machine control and control of nuclear experiments  
 Fuelling machine commissioning services

**DEGREMONT CANADA LTÉE**  
 2015 Drummond Street, Montreal, Quebec, Canada

Ion exchange units  
 Water treatment systems and equipment, including condensate polishing equipment

**DENISON MINES LIMITED**  
 4 King Street West, Toronto 105, Ontario, Canada

Materials — uranium yellowcake ( $U_3O_8$ ), uranium hexafluoride ( $UF_6$ ), yttrium oxide concentrates ( $Y_2O_3$ )

**DILWORTH, SECORD, MEAGHER AND ASSOCIATES LIMITED**  
**CONSULTING ENGINEERS**  
 4195 Dundas Street West, Toronto 590, Ontario, Canada

Consultants specializing in nuclear applications. Projects completed include design of reactor components, design of fuel handling equipment including design of on-power fuelling machines, design of reactor control and instrumentation, analysis of nuclear power plant performance through the use of dynamic models of the plant, safety analysis and preparation of safety reports, design of waste management facilities and design of shipping casks for radioactive material including spent fuel shipping casks



DOMINION BRIDGE COMPANY LIMITED  
INDUSTRIAL PRODUCTS DIVISION

P.O. Box 280, Montreal 3, Quebec, Canada

Airlocks, personnel and equipment  
Bridge, fuelling machine  
Calandrias, stainless steel and zircaloy  
Calandria support assemblies  
Fuel handling equipment  
Flasks, fuel transfer  
Guide columns, fuelling machine  
Reheaters, live steam  
Shield — internal, end and water cooled thermal  
Tanks — dump, suppression, dousing, surge and shield  
Vessels, pressure

DOMINION ENGINEERING WORKS LIMITED

P.O. Box 220, Montreal, Quebec, Canada

Valves — butterfly for cooling water service to 60 inches and tilting disc check valves to 48 inches diameter

DOMINION WELDING ENGINEERING COMPANY LTD.

Keele Street North, Maple, Ontario, Canada

Calandria, research reactor  
Condensers  
Flasks, disposal  
Fuel handling equipment including storage racks, vertical conveyors and spent fuel conveyor tubes  
Headers, loop, inlet and outlet  
Heat exchangers and precoolers  
Ion exchange units and filters  
Shields, thermal  
Tanks — high pressure poison, surge, filter, dump  
Tubes, spent fuel conveyor  
Vessels, pressure

DOWTY EQUIPMENT OF CANADA LIMITED

Ajax, Ontario, Canada

Subcontract machining — to nuclear quality control standards. Examples include sealing plugs for coolant tubes

ECONODYNE LIMITED

GRAVER WATER CONDITIONING DIVISION

2201 Spears Road, Oakville, Ontario, Canada

Water conditioning and treating equip-

ment, including — reactivators for water clarification, gravity monovalve filters, activated carbon filters for colour and organic removal, demineralizers, Powdex systems for condensate refining

ELDORADO NUCLEAR LIMITED

215 John Street, Port Hope, Ontario, Canada

Fuel materials — uranium metal, alloy and compounds ( $UF_6$ ,  $UO_2$ ,  $UO_3$ , UC,  $U_3Si$ )  
Vacuum melting facilities  
Zirconium metal and nuclear alloys  
Shielding materials, depleted uranium

THE ELECTROLYSER CORPORATION LTD.

122 The West Mall, Etobicoke, Toronto, Ontario, Canada

Crude heavy water concentration, development and production of process and equipment  
Generator, deuterium gas, by electrolysis of heavy water  
Generator, packaged hydrogen/oxygen, for advanced gas cooled reactors  
Heavy water upgrading, development and production of process and equipment

ESCO LIMITED

1855 Kingsway, Port Coquitlam, British Columbia, Canada

Castings, nuclear quality, stainless steel

FABRICATED METALS AND ENGINEERING (OSHAWA) LIMITED

249 Toronto Avenue, Oshawa, Ontario, Canada

Subcontract machining — to nuclear quality control standards. Examples include fuel transfer equipment

FARRIS INDUSTRIES CANADA LTD.

Highway 2 at Shaver Street, Brantford, Ontario, Canada

Valves, safety relief

FEDERATED METALS CANADA LIMITED  
1100 Birchmount Road, Scarborough,  
Ontario, Canada

Doors, lead bonded  
Isotope containers  
Lead, sheet and brick

FISCHER & PORTER (CANADA) LIMITED  
134 Norfinch Drive, Downsview, Ontario, Canada

Instrumentation — complete line  
including control panels

FISHER CONTROLS OF CANADA LTD.  
P.O. Box 578, Woodstock, Ontario, Canada

Valves — control, for heavy water service,  
including bellows sealed type

FOSTER WHEELER LIMITED  
P.O. Box 1007, St. Catharines, Ontario, Canada

Heat exchangers

THE FOXBORO COMPANY LIMITED  
707 Dollard Avenue, LaSalle 650, Quebec, Canada

Computer control, both analog and  
digital, for on line service  
Instrumentation  
Systems — control, fully integrated,  
including instruments for measuring,  
recording and controlling primary loop  
and reactor, secondary and auxiliary  
loops and feedwater equipment

FROMSON HEAT TRANSFER LTD.  
77 Railside Road, Don Mills, Ontario, Canada

Heat exchangers — to nuclear codes, shell  
and tube type

GENERAL GEAR COMPANY  
DIVISION OF DONLEE MANUFACTURING  
INDUSTRIES LIMITED  
9 Fenmar Drive, Weston, Ontario, Canada

Calandria support rods  
End fitting bearing sleeves  
End fitting liner tubes  
Fuelling machine gearboxes  
Journal rings, end fitting  
Plugs — end fitting shielding and closure

Reactivity control units, booster assembly  
Subcontract machining — to nuclear  
quality control standards

GENERAL METALLIC PARTS LIMITED  
16 Milford Avenue, Toronto 15, Ontario, Canada

Subcontract machining — to nuclear  
quality control standards. Examples  
include coolant system shield plug  
assembly, fuel transfer equipment and  
end fitting bearing sleeves

GUELPH ENGINEERING COMPANY  
10 Kingsmill Avenue, Guelph, Ontario, Canada

Valves — gate, globe, and check — cast  
and fabricated steel

HAWKER SIDDELEY CANADA LTD.  
CANADIAN STEEL FOUNDRIES DIVISION  
P.O. Box 80, Station M,  
Montreal 426, Quebec, Canada

Castings — sophisticated, high quality  
carbon and stainless steels. X-ray  
facilities capable of 18 inches penetration  
specially installed to comply with nuclear  
standards

HAYWARD GORDON LTD.  
7485 Bath Road, Malton, Ontario, Canada

Pumps — centrifugal, for leak collection,  
circulating and bleed tempering

JOHN T. HEPBURN LIMITED  
914 Dupont Street, Toronto 4, Ontario, Canada

Carriage, fuelling machine  
Doors, shielding

HEROUX LIMITED  
340 Thurber Avenue, Longueuil, Quebec, Canada

Fuel transfer systems  
Subcontract machining — to nuclear  
quality control standards  
Plugs, sealing and shielding  
Tubes, flow

HORTON STEEL WORKS, LIMITED  
401 Bay Street, Suite 1200,  
Toronto 1, Ontario, Canada

Airlocks  
Tanks — dump and shield  
Towers — separation, for heavy water  
plants  
Vessels, pressure

JAMES HOWDEN AND PARSONS OF CANADA LIMITED  
1510 Birchmount Road, Scarborough,  
Ontario, Canada

Reactor component fabrication in stain-  
less, alloy or carbon steels, to nuclear  
standards  
Turbines, nuclear — steam

HUMPHREYS & GLASGOW (CANADA) LTD.  
2774 Old Leslie Street, Willowdale, Ontario, Canada

Nuclear quality engineering and construc-  
tion. Experience includes heavy water  
production plants, in and out reactor test  
loops and uranium extraction plants

INTERNATIONAL BUSINESS MACHINES COMPANY LTD.  
24 Feerand Drive, Don Mills, Ontario, Canada

Computers

GEORGE KELK LIMITED  
48 Lesmill Road, Don Mills, Ontario, Canada

Generators, signal, pulse

KEYSTONE VALVE (CANADA) LTD.  
923 Oxford Street, Toronto 18, Ontario, Canada

Valves, butterfly

LALONDE, GIROUARD, LETENDRE & ASSOCIATES  
8790 Park Avenue, Montreal 354, Quebec, Canada

Consulting engineers — specializing in  
design of steam generator and reheaters  
for CANDU reactors

LASALLE HYDRAULIC LABORATORY LTD.  
0250 St. Patrick Street, LaSalle, Quebec, Canada

Consultants specializing in fluid mechan-  
ics. Projects include studies of heavy  
water circulation systems and emergency

dump lines, consisting of studies into  
flow distribution, head loss, cavitation,  
transient regimes, vibration and heat  
transfer

Laboratory services for fluid mechanics  
studies

THE ARTHUR S. LEITCH COMPANY LIMITED  
605 William Street, Midland, Ontario, Canada

Heat exchangers to nuclear codes — shell  
and tube type  
Condensers

LIQUID CARBONIC CANADIAN CORPORATION LIMITED  
8375 Mayrand Street, Montreal 308,  
Quebec, Canada

Gas — high purity, research and exotic  
mixtures, including deuterium and  
deuterium oxide, helium, quench gas and  
other nuclear counter mixtures

THE LUMMUS COMPANY CANADA LIMITED  
1300 Don Mills Road, Don Mills, Ontario, Canada

Engineer constructors, specializing in  
heavy water plants. Services include  
planning, engineering development and  
research, design, procurement, operator  
training and construction responsibilities

MLW INDUSTRIES  
P.O. Box 1000, Place d'Armes, Montreal 126,  
Quebec, Canada

Heat exchangers, including moderator  
and auxiliary  
Steam generators for CANDU reactors  
Coolers — gland, bleed and standby

MAGNA ELECTRONICS CORPORATION LIMITED  
153 Eddystone Avenue, Downsview 479,  
Ontario, Canada

Subcontracting machining — to nuclear  
quality control standards. Machining  
capability in beryllium

MANNING, MAXWELL & MOORE DIVISION  
DRESSER INDUSTRIES CANADA LTD.  
200 Avenue Road, Galt, Ontario, Canada

Valves, safety relief



MARINE INDUSTRIES LIMITED

1405 Peel Street, Montreal, Quebec, Canada

Calandrias, reactor  
Heat exchangers  
Vessels, pressure

MARSLAND ENGINEERING LIMITED

350 Weber North, Waterloo, Ontario, Canada

Control absorber drive mechanism  
Gamma castle  
Monitors, gamma  
Monitors, hand and foot frisker  
Monitor, gaseous fission product precipitation  
Monitor, high-low range ambient radiation  
Probes, radiation  
Probes, gamma

MASONEILAN

DIVISION OF WORTHINGTON (CANADA) LTD.

4180 Dundas Street West, Toronto 18,  
Ontario, Canada

Instruments, liquid level  
Regulators  
Valves, control

MONTEL INC.

P.O. Box 130, Montmagny, Quebec, Canada

Cabinets, panels and consoles, for instruments

MUIRHEAD ENGINEERING LIMITED

Agincourt, Ontario, Canada

Heat exchangers to nuclear code. Shell and tube type  
Fractionating trays for heavy water plants

R. H. NICHOLS CO. LIMITED

P.O. Box 500, Downsview, Ontario, Canada

Panels, control  
Measurement and control engineers

NUCLEAR RADIATION DEVELOPMENTS

DIVISION OF ELECTRONIC ASSOCIATES OF CANADA LTD.

360 Eddystone Avenue, Downsview,  
Ontario, Canada

Tubes, geiger — halogen and organic quench  
Tubes, neutron counter

ORENDA LIMITED

P.O. Box 6001, Toronto International Airport,  
Toronto, Ontario, Canada

Alarm systems  
Consoles, control  
Control rod drives  
Experimental equipment, design and manufacture — in reactor creep machines, controls and creep strain readout system, pressure tube gauging equipment  
Heaters, mineral insulated, for in reactor use, such as irradiation capsule temperature controllers  
Loops, test, out-of-pile  
Pumps — superheated steam, for out-of-pile testing of nuclear reactor fuel elements. Centrifugal and regenerative turbine types  
Services include engineering laboratories equipped for testing and evaluating welding, metallurgy, chemistry, environmental conditions, instrumentation, mechanisms, etc.

PALL (CANADA) LIMITED

P.O. Box 370, Saint Laurent, Montreal 376,  
Quebec, Canada

Dryers, air  
Filters, for laboratory waste, decontaminants, cask cleaning waste, primary and secondary loops, laundry

PHILIPS ELECTRON DEVICES

A DIVISION OF PHILIPS ELECTRONIC INDUSTRIES LTD.

116 Vanderhoof Avenue, Toronto 17,  
Ontario, Canada

Counters, liquid  
Detectors, semi-conductor  
Multipliers, channel electron  
Tubes, ion and photon counting

PICKER NUCLEAR — CANADA

SCIENTIFIC AND NUCLEAR INSTRUMENT DIVISION

PICKER X-RAY ENGINEERING LIMITED

230 Authier Street, Montreal 378, Quebec, Canada

Electron microscopes  
Medical gamma cameras  
Mass spectrometers  
Neutron generators  
Rectilinear scanners and nuclear counting systems  
X-ray analytical

RACEY, MacCALLUM & BLUTEAU LTD.  
8205 Montreal-Toronto Boulevard, Montreal 263,  
Quebec, Canada

Non-destructive testing services

REUTER-STOKES CANADA LIMITED  
P.O. Box 45, Preston, Ontario, Canada

Cable, mineral insulated  
Detectors, radiation  
Sensors, neutron, reactor control  
Systems, neutron-flux mapping  
Thermocouples  
Transducers

RICHARDS-WILCOX OF CANADA LIMITED  
P.O. Box 5060, Terminal A, London 12,  
Ontario, Canada

Cranes, hoists and monorail and conveyor  
systems  
Insulation cabinets

RIO ALGOM MINES LIMITED  
120 Adelaide Street West, Toronto 1,  
Ontario, Canada

Uranium — yellowcake ( $U_3O_8$ )

SIGMA INSTRUMENTS (CANADA) LIMITED  
P.O. Box 43, Toronto 18, Ontario, Canada

Controllers, indicating  
Detectors, resistance temperatures,  
custom built  
Indicators  
Recorder, sub-miniature, multipoint

SIMTEC INDUSTRIES LTD.  
3400 Metropolitan Boulevard East, Montreal 455,  
Quebec, Canada

Analyser, single and multi-channel  
Amplifiers, linear  
Amplifier, custom and detector bias  
supply  
Discriminator  
Detectors, annular  
Detectors, silicon lithium drift  
Detectors, transverse field silicon  
Monitors, radiation detection  
Preamplifiers, including fet type  
Ratemeter, linear  
Systems, spectrometer

SINGER VALVE COMPANY LTD.  
P.O. Box 69, Surrey, British Columbia, Canada  
Valves, control — including cage trim  
type and three way type

SPERRY GYROSCOPE  
OTTAWA DIVISION  
3 Hamilton Avenue, Ottawa, Ontario, Canada  
Instrumentation, nuclear

STANDARD MODERN TOOL COMPANY LIMITED  
69 Montcalm Avenue, Toronto 10, Ontario, Canada  
Control rod drives and mechanisms  
Control systems, hydraulic  
Engineering services include —  
research and development, design of fuel  
handling equipment, material specifica-  
tion writing, test procedures preparation,  
project engineering, registration and doc-  
umentation of pressure vessel equipment  
Fuelling machine carriages  
Fuelling machine heads  
Fuelling machine ram adapters  
Fuel transfer and conveying equipment  
Subcontract machining — to nuclear  
quality control standards  
Mechanical handling equipment  
Plugs — shielding and sealing, for fuel  
channels

STANROCK URANIUM MINES LTD.  
80 Richmond Street West, Suite 804, Toronto,  
Ontario, Canada  
Uranium — yellowcake ( $U_3O_8$ )

STANTON PIPES LIMITED  
PIPEWORK ENGINEERING DIVISION  
P.O. Box 849, Hamilton, Ontario, Canada  
Headers, main, inlet and outlet

STEMAC LIMITED  
300 Canal Bank, Montreal 645, Quebec, Canada  
Heat exchangers  
Reflux cooler

STRITE INDUSTRIES LIMITED  
298 Oak Street, Hespeler, Ontario, Canada  
Consultants, seal design  
Plugs, sealing, for fuel channel closures  
Plugs, snout, for fuelling machines  
Seals — metallic, for high temperature  
and pressure, static and dynamic  
Subcontract machining — to nuclear  
quality control standards

SULZER BROS. (CANADA) LTD.  
1310 Greene Avenue, Montreal 215, Quebec, Canada

Consultants — specializing in engineering and heavy water manufacturing and upgrading facilities

TAYLOR FORGE CANADA LTD.  
GULF & WESTERN INDUSTRIAL PRODUCTS COMPANY  
P.O. Box 511, Hamilton, Ontario, Canada

Forgings — carbon steel, stainless steel, chrome moly, aluminum — to nuclear codes. Typical products include pipe fittings, flanges, fuelling magazine housings and reactor headers

THE TORONTO IRON WORKS LIMITED  
PLATE FABRICATION DIVISION  
629 Eastern Avenue, Toronto 8, Ontario, Canada

Heat exchangers, to nuclear codes — shell and tube type  
Vessels, pressure

UNIFIN DIVISION  
KEEPRITE PRODUCTS LIMITED  
P.O. Box 2395, Terminal A, London, Ontario, Canada

Coils, dehumidifier, for heavy water recovery  
Coolers, calandria vault  
Coolers, reactor coolant pump motors  
Tubes, turbine steam regenerator  
Tubing, integral finned, for heat transfer apparatus

UNION CARBIDE CANADA LIMITED  
123 Eglinton Avenue East, Toronto 12, Ontario, Canada

Trays — distillation, for heavy water plants

UPPER CANADA MANUFACTURING LTD.  
223 Evans Avenue, Toronto 18, Ontario, Canada

Subcontract machining — to nuclear quality control standards. Examples include conveyor stop mechanisms, channel closure tools, fuel elevator, shuffling equipment, head removal trolley

VELAN ENGINEERING LTD.  
2125 Ward Avenue, Montreal 378, Quebec, Canada

Valves — forged, carbon, alloy and stainless steels. Gate (including parallel slide), globe and check, ranging from 1/4

inch to 24 inches, and 150 pounds to 2,500 pounds ANSI. Bellows seal type also available

VICOM LIMITED  
P.O. Box 472, Kingston, Ontario, Canada

Subcontract machining — to nuclear quality control standards. Examples include end fitting bearing sleeves

W. L. WARDROP & ASSOCIATES LTD.  
456 Notre Dame Avenue, Winnipeg 2, Manitoba, Canada

Consultants, engineering. Nuclear experience includes detailed design of fuel examination facility, an in pile stream test facility and a decontamination centre

WELMET INDUSTRIES LTD.  
P.O. Box 370, Welland, Ontario, Canada

Castings, nuclear quality, stainless steel  
Fittings, cast stainless steel  
Valves, stainless steel — gate, globe, check, wye and angle

WILLIAMS MACHINES LIMITED  
P.O. Box 430, Preston, Ontario, Canada

Subcontract machining — to nuclear quality control standards

WOLVERINE TUBE DIVISION  
CALUMET & HECLA (CANADIAN) LIMITED  
P.O. Box 5115, London, Ontario, Canada

Listed under CALUMET & HECLA (CANADIAN) LIMITED

WORTHINGTON (CANADA) LIMITED  
P.O. Box 40, Brantford, Ontario, Canada

Pumps, cooling water circulating

YARWAY CANADA LTD.  
287 Speedvale Avenue West, Guelph, Ontario, Canada

Expansion joints  
Steam traps, impulse  
Valves, boiler blow off



# CANADIAN TRADE OFFICES

Further information on the development of nuclear power in Canada may be obtained from the following Canadian Government Trade Offices:

## ARGENTINA

Commercial Counsellor  
Canadian Embassy  
Casilla de Correo 3898  
Suipacha 1111  
Buenos Aires

## AUSTRALIA

Commercial Counsellor for Canada  
P.O. Box 3952, G.P.O.  
A.M.P. Building, 21st Floor  
Circular Quay  
Sydney

Commercial Counsellor for Canada  
Princes Gate East Tower, 17th Floor  
151 Flinders Street  
Melbourne 3000

Commercial Counsellor  
Office of the High Commissioner  
for Canada  
Commonwealth Avenue  
Yarralumla 2600  
Canberra ACT

## AUSTRIA

Commercial Counsellor  
Canadian Embassy  
P.O. Box 190, 1013 Vienna  
Dr. Karl Luegerring 10  
1010 Vienna

## BELGIUM

Commercial Counsellor  
Canadian Embassy  
rue de la Science, 35  
B-1040 Brussels

## BRAZIL

Commercial Secretary  
Canadian Embassy  
Caixa Postal 2164-ZC-00  
Edificio Metropol  
Avenida Presidente Wilson 165  
Rio de Janeiro

Consul and Trade Commissioner  
Canadian Consulate  
Caixa Postal 6034  
Edificio Scarpa  
Avenida Paulista, 1765, 9 andar  
Sao Paulo

## BRITAIN

Minister (Commercial)  
Office of the High Commissioner  
for Canada  
One Grosvenor Square  
London, W1X OAB

Canadian Government Trade  
Commissioner  
Cornhill House  
144 West George Street  
Glasgow C.2, Scotland

## CEYLON

Commercial Division  
Office of the High Commissioner  
for Canada  
P.O. Box 1006  
6 Gregory's Road  
Cinnamon Gardens  
Colombo

## CHILE

Commercial Secretary  
Canadian Embassy  
Casilla 771  
Edificio Ahumada, 10th Floor  
Santiago

## COLOMBIA

Commercial Secretary  
Canadian Embassy  
Apartado Aereo 53531/2  
Calle 58 No. 10-42  
Bogota

## CONGO

Commercial Secretary  
Canadian Embassy  
P.O. Box 8341  
Kinshasa

## CUBA

Commercial Division  
Canadian Embassy  
Gaveta 6125  
Calle 30 No. 518 esquina 7ª Avenida  
Miramar  
Havana

## CZECHOSLOVAKIA

Commercial Secretary  
Canadian Embassy  
Chancery, Mickiewiczova 6  
Prague 6

## DENMARK

Commercial Counsellor  
Canadian Embassy  
Prinsesse Maries Allé 2  
Copenhagen V

## EUROPEAN COMMUNITIES

Mission of Canada to the  
European Communities  
Canadian Embassy  
rue de la Science, 35  
B-1040 Brussels, Belgium

## FRANCE

Minister-Counsellor (Commercial)  
Canadian Embassy  
35 Avenue Montaigne  
Paris 8<sup>e</sup>

## GERMANY

Commercial Counsellor  
Canadian Embassy  
Friedrich-Wilhelmstrasse 18  
53 Bonn

Consul General and Senior Trade  
Commissioner  
Canadian Consulate General  
Koenigsallee 82  
4 Duesseldorf 1

Consul General  
Canadian Consulate General  
Esplanade 41-47  
2000 Hamburg 36

## GREECE

Commercial Secretary  
Canadian Embassy  
31 Vassilissis Sophias Avenue  
Athens 138

## GUATEMALA

Commercial Counsellor  
Canadian Embassy  
Apartado 3A (airmail), 4A (Seamail)  
Edificio Etisa, Plazuela Espana  
7ª Avenida 12-19, Zone 9  
Guatemala City, C.A.

## HONG KONG

Senior Canadian Government  
Trade Commissioner  
P.O. Box 126  
P & O Building, 11th Floor  
21-23, Des Voeux Road, Central  
Hong Kong

## INDIA

Commercial Counsellor for Canada  
P.O. Box 11  
13 Golf Links Road  
New Delhi 1

## INDONESIA

Acting Commercial Secretary  
Canadian Embassy  
Djalan Budi Kemuliaan No. 6  
Djakarta

## IRAN

Commercial Secretary  
Canadian Embassy  
P.O. Box 1610  
Bezrouke Building  
Corner of Takht Jamshid Avenue  
and Forsat Street  
Tehran

## IRELAND

Commercial Counsellor for Canada  
66 Upper O'Connell Street  
Dublin

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Commercial Secretary  
Canadian Embassy  
P.O. Box 20140  
84 Hahashmoniam Street  
Tel Aviv

**ITALY**

Minister-Counsellor (Commercial)  
Canadian Embassy  
Via G. B. De Rossi 27  
00161 Rome

Consul General and Trade  
Commissioner  
Canadian Consulate General  
C.P. 3977  
Via Vittor Pisani 19  
20124 Milan

**IVORY COAST**

Commercial Secretary  
Canadian Embassy  
P.O. Box 21194  
Abidjan

**JAMAICA**

Commercial Secretary  
Office of the High Commissioner  
for Canada  
P.O. Box 1500  
Tobago Road  
Corner Trafalgar Road and  
Knutsford Boulevard  
Kingston 10

**JAPAN**

Minister (Commercial)  
Embassy of Canada  
Akasaka Post Office  
Tokyo 107

**KENYA**

Commercial Counsellor  
Office of the High Commissioner  
for Canada  
P.O. Box 3778  
Industrial Promotion Services  
Building  
Kimathi Street  
Nairobi

**LEBANON**

Commercial Counsellor  
Canadian Embassy  
Boite Postale 2300  
Alpha Building  
Rue Clemenceau  
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**MALAYSIA**

Commercial Counsellor  
Office of the High Commissioner  
for Canada  
P.O. Box 990  
A.I.A. Building, Ampang Road  
Kuala Lumpur

**MEXICO**

Commercial Counsellor  
Canadian Embassy  
Apartado Postal 5-364  
Melchor Ocampo 463, 7th Floor  
Mexico 5, D.F.

**NETHERLANDS**

Commercial Counsellor  
Canadian Embassy  
Sophialaan 7  
The Hague

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Commercial Counsellor  
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for Canada  
P.O. Box 12-049 Wellington North  
ICI Building, 3rd Floor  
Molesworth Street  
Wellington

**NIGERIA**

Commercial Secretary  
Office of the High Commissioner  
for Canada  
P.O. Box 851  
Niger House  
1/5 Odunlami Street  
Lagos

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Commercial Secretary  
Canadian Embassy  
Postuttak  
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Office of the High Commissioner  
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Corner Avenida Arequipa and  
Plaza Washington  
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Consul General and Trade  
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1414 Roxas Boulevard  
Manila

**POLAND**

Commercial Secretary  
Canadian Embassy  
Matejki 1/5  
Warsaw

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Commercial Counsellor  
Canadian Embassy  
Rua Rosa Araujo, 2-7º  
Seventh Floor  
Lisbon 2

**PUERTO RICO**

Consul and Trade Commissioner  
Canadian Consulate  
1606 Pan Am Building  
Hato Rey, PR 00917

**SINGAPORE**

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Office of the High Commissioner  
for Canada  
P.O. Box 845  
International Building, 11th Floor  
360 Orchard Road  
Singapore 1

**SOUTH AFRICA**

Canadian Government Trade  
Commissioner  
P.O. Box 61619 Marshalltown  
78 Fox Street  
Johannesburg

Canadian Government Trade  
Commissioner  
P.O. Box 683  
African Life Centre, 13th Floor  
St. George's Street  
Cape Town

**SPAIN**

Commercial Counsellor  
Canadian Embassy  
Apartado 117  
Edificio Espana  
Avenida de Jose Antonio 88  
Madrid

**SWEDEN**

Commercial Counsellor  
Canadian Embassy  
P.O. Box 14042  
Kungsgatan 24  
S-104 40 Stockholm

**SWITZERLAND**

Commercial Counsellor  
Canadian Embassy  
Kirchenfeldstrasse 88  
3000 Berne

**THAILAND**

Commercial Secretary and Consul  
Canadian Embassy  
P.O. Box 2090  
Thai Farmers Bank Building, 7th Floor  
142 Silom Road  
Bangkok

## **TRINIDAD AND TOBAGO**

Commercial Counsellor  
Office of the High Commissioner  
for Canada  
P.O. Box 1246  
Colonial Building  
72 South Quay  
Port-of-Spain, Trinidad

## **TURKEY**

Commercial Secretary  
Canadian Embassy  
Vali Dr. Resit Caddesi 52  
Cankaya, Ankara

## **UNION OF SOVIET SOCIALIST REPUBLICS**

Commercial Counsellor  
Canadian Embassy  
23 Starokonyushenny Pereulok  
Moscow

## **UNITED ARAB REPUBLIC**

Commercial Division  
Canadian Embassy  
Kasr el Doubara Post Office  
6 Sharia Rouston Pasha  
Garden City  
Cairo, Egypt

## **UNITED NATIONS**

Permanent Mission of Canada  
to the United Nations  
866 United Nations Plaza, Suite 250  
New York, NY 10017

## **UNITED STATES**

Commercial Counsellor  
Canadian Embassy  
1746 Massachusetts Avenue, N.W.  
Washington, DC 20036

Deputy Consul General (Commercial)  
Canadian Consulate General  
680 Fifth Avenue  
New York City, NY 10019

Consul and Senior Trade  
Commissioner  
Canadian Consulate General  
500 Boylston Street  
Boston, MA 02116

Consul and Trade Commissioner  
Canadian Consulate  
1400 Main Place  
396 Main Street  
Buffalo, NY 14201

Consul and Senior Trade  
Commissioner  
Canadian Consulate General  
310 South Michigan Avenue  
Suite 2000  
Chicago, IL 60604

Consul and Senior Trade Commissioner  
Canadian Consulate  
Illuminating Building  
55 Public Square  
Cleveland, OH 44113

Consul and Trade Commissioner  
Canadian Consulate  
2100 Adolphus Tower  
1412 Main Street  
Dallas, TX 75202

Consul and Trade Commissioner  
Canadian Consulate  
1920 First Federal Building  
1001 Woodward Avenue  
Detroit, MI 48226

Consul and Trade Commissioner  
Canadian Consulate General  
510 West Sixth Street  
Los Angeles, CA 90014

Consul and Trade Commissioner  
Canadian Consulate  
15 South Fifth Street  
Minneapolis, MN 55402

Consul and Trade Commissioner  
Commercial Division  
Canadian Consulate General  
2110 International Trade Mart  
2 Canal Street  
New Orleans, LA 70130

Consul and Trade Commissioner  
Canadian Consulate  
3 Penn Center Plaza  
Philadelphia, PA 19102

Consul and Trade Commissioner  
Commercial Division  
Canadian Consulate General  
One Maritime Plaza  
Golden Gateway Center  
San Francisco, CA 94111

Consul General and Trade  
Commissioner  
Canadian Consulate General  
412 Plaza 600 Building  
Sixth Avenue and Stewart Street  
Seattle, WA 98101

## **VENEZUELA**

Commercial Counsellor  
Canadian Embassy  
Apartado del Este 62302  
Avenida La Estancia No. 10  
Ciudad Commercial Tamanaco  
Caracas

## **YUGOSLAVIA**

Commercial Secretary  
Canadian Embassy  
Proleterskih Brigada 69  
Belgrade



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The Canadian Nuclear Association is a non-profit voluntary membership body established to promote the orderly and sound development of nuclear energy for peaceful uses in Canada and abroad. It co-ordinates and represents the interests of governments, organizations, utilities, consulting firms, producers of essential metals and other basic materials, manufacturing firms, financial and educational institutions and individuals who are, or expect to be, engaged in some phase of development or utilization, or both, of nuclear energy. The CNA identifies, studies and seeks solutions to the major problems of a new and growing industry.

**Objectives of the CNA**

- a) To promote and foster an environment favourable to the healthy growth of the uses of nuclear energy and radioisotopes.
- b) To encourage co-operation between various industries, utilities, educational institutions, government departments and agencies and other authoritative bodies which have a common interest in the development of economic nuclear power and uses of radioisotopes.
- c) To provide a forum for the discussion and resolution of problems which are of concern to the members, to the industry or to the Canadian public generally.
- d) To stimulate co-operation with other associations that have similar objectives and purposes.

**Membership Abroad**

The CNA has members in countries throughout the world and welcomes additional members.

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Inquiries should be addressed to:  
Canadian Nuclear Association  
Suite 1002  
11 Adelaide Street West  
Toronto 105, Ontario, Canada

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